

ANNOTATION

HRV protein beg-end positions (cleavage sites) within this alignment.

0001-2255 polyprotein

0001-0069 VP4

0070-0345 VP2

0346-0587 VP3

0588-0919 VP1

0920-1068 2A

1069-1167 2B

1168-1499 2C

1500-1586 3A

1587-1609 3B

1610-1792 3C

1793-2255 3D

Structure features, where known are indicated on annotation line:

H=helix, B=beta, P=puff, K=knob. If structure reference has assigned letters

to designate sheets or helices, these are indicated on this line.

hrv08.pro.msf MSF: 2255 Type: P October 22, 2008 19:15 Check: 5838

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Name: annotation	Len: 2255	Check: 4935	Weight: 1.00
Name: af499637-cva13	Len: 2255	Check: 447	Weight: 1.00
Name: af546702-cva21	Len: 2255	Check: 4642	Weight: 1.00
Name: v01149-pv1m	Len: 2255	Check: 6327	Weight: 1.00
Name: d00239-01	Len: 2255	Check: 7463	Weight: 1.00
Name: pico-01	Len: 2255	Check: 6186	Weight: 1.00
Name: hrv-01	Len: 2255	Check: 6203	Weight: 1.00
Name: x02316-02	Len: 2255	Check: 7841	Weight: 1.00
Name: hrv-07	Len: 2255	Check: 5013	Weight: 1.00
Name: dq473503-07	Len: 2255	Check: 3087	Weight: 1.00
Name: hrv-08	Len: 2255	Check: 1247	Weight: 1.00
Name: pico-09	Len: 2255	Check: 6334	Weight: 1.00
Name: hrv-09	Len: 2255	Check: 7236	Weight: 1.00
Name: hrv-09-f01	Len: 2255	Check: 4151	Weight: 1.00
Name: hrv-09-f02	Len: 2255	Check: 4476	Weight: 1.00
Name: dq473498-10	Len: 2255	Check: 850	Weight: 1.00
Name: hrv-10	Len: 2255	Check: 850	Weight: 1.00
Name: ef173414-11	Len: 2255	Check: 8297	Weight: 1.00
Name: ef173415-12	Len: 2255	Check: 6532	Weight: 1.00
Name: hrv-13	Len: 2255	Check: 4848	Weight: 1.00
Name: hrv-13-f03	Len: 2255	Check: 6361	Weight: 1.00
Name: dq473493-15	Len: 2255	Check: 5079	Weight: 1.00
Name: l24917-16	Len: 2255	Check: 9066	Weight: 1.00
Name: hrv-18	Len: 2255	Check: 2115	Weight: 1.00
Name: hrv-19	Len: 2255	Check: 3752	Weight: 1.00
Name: hrv-20	Len: 2255	Check: 5241	Weight: 1.00
Name: hrv-21	Len: 2255	Check: 2811	Weight: 1.00
Name: hrv-22	Len: 2255	Check: 3661	Weight: 1.00
Name: dq473497-23	Len: 2255	Check: 2349	Weight: 1.00
Name: hrv-24	Len: 2255	Check: 8306	Weight: 1.00
Name: ef173416-24	Len: 2255	Check: 7278	Weight: 1.00
Name: hrv-25	Len: 2255	Check: 7535	Weight: 1.00
Name: dq473508-28	Len: 2255	Check: 1578	Weight: 1.00
Name: hrv-29	Len: 2255	Check: 5183	Weight: 1.00

TableS3.hrvPro.Nov6.txt

Name: dq473512-30	Len: 2255	Check: 3262	Weight: 1.00
Name: hrv-30	Len: 2255	Check: 3559	Weight: 1.00
Name: hrv-31	Len: 2255	Check: 6949	Weight: 1.00
Name: hrv-32	Len: 2255	Check: 4105	Weight: 1.00
Name: hrv-33	Len: 2255	Check: 7247	Weight: 1.00
Name: hrv-34	Len: 2255	Check: 5118	Weight: 1.00
Name: dq473501-34	Len: 2255	Check: 4982	Weight: 1.00
Name: dq473505-36	Len: 2255	Check: 2273	Weight: 1.00
Name: hrv-38	Len: 2255	Check: 9028	Weight: 1.00
Name: dq473495-38	Len: 2255	Check: 8056	Weight: 1.00
Name: ay751783-39	Len: 2255	Check: 3443	Weight: 1.00
Name: hrv-40	Len: 2255	Check: 6843	Weight: 1.00
Name: dq473491-41	Len: 2255	Check: 7539	Weight: 1.00
Name: hrv-43	Len: 2255	Check: 7974	Weight: 1.00
Name: dq473499-44	Len: 2255	Check: 3531	Weight: 1.00
Name: hrv-45	Len: 2255	Check: 2115	Weight: 1.00
Name: dq473506-46	Len: 2255	Check: 6630	Weight: 1.00
Name: hrv-47	Len: 2255	Check: 6617	Weight: 1.00
Name: dq473496-49	Len: 2255	Check: 8506	Weight: 1.00
Name: hrv-49-f04	Len: 2255	Check: 7414	Weight: 1.00
Name: hrv-50	Len: 2255	Check: 6681	Weight: 1.00
Name: hrv-51	Len: 2255	Check: 7727	Weight: 1.00
Name: dq473507-53	Len: 2255	Check: 6412	Weight: 1.00
Name: hrv-54	Len: 2255	Check: 9861	Weight: 1.00
Name: hrv-54-f05	Len: 2255	Check: 6687	Weight: 1.00
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Name: hrv-56	Len: 2255	Check: 2611	Weight: 1.00
Name: hrv-57	Len: 2255	Check: 339	Weight: 1.00
Name: hrv-58	Len: 2255	Check: 9705	Weight: 1.00
Name: dq473500-59	Len: 2255	Check: 2882	Weight: 1.00
Name: hrv-60	Len: 2255	Check: 53	Weight: 1.00
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Name: hrv-62	Len: 2255	Check: 7013	Weight: 1.00
Name: hrv-63	Len: 2255	Check: 4641	Weight: 1.00
Name: hrv-64	Len: 2255	Check: 5394	Weight: 1.00
Name: ef173417-64	Len: 2255	Check: 3160	Weight: 1.00
Name: hrv-65	Len: 2255	Check: 3638	Weight: 1.00
Name: hrv-66	Len: 2255	Check: 7130	Weight: 1.00
Name: hrv-67	Len: 2255	Check: 7013	Weight: 1.00
Name: hrv-68	Len: 2255	Check: 4503	Weight: 1.00
Name: hrv-71	Len: 2255	Check: 1844	Weight: 1.00
Name: dq473492-73	Len: 2255	Check: 5881	Weight: 1.00
Name: dq473494-74	Len: 2255	Check: 9321	Weight: 1.00
Name: dq473510-75	Len: 2255	Check: 2355	Weight: 1.00
Name: dq473502-76	Len: 2255	Check: 3906	Weight: 1.00
Name: hrv-76	Len: 2255	Check: 3651	Weight: 1.00
Name: hrv-77	Len: 2255	Check: 1505	Weight: 1.00
Name: hrv-78	Len: 2255	Check: 1027	Weight: 1.00
Name: ef173418-78	Len: 2255	Check: 369	Weight: 1.00
Name: hrv-80	Len: 2255	Check: 7222	Weight: 1.00
Name: hrv-81	Len: 2255	Check: 5990	Weight: 1.00
Name: hrv-81-f06	Len: 2255	Check: 5925	Weight: 1.00
Name: hrv-81-f07	Len: 2255	Check: 5782	Weight: 1.00
Name: hrv-82	Len: 2255	Check: 9248	Weight: 1.00
Name: dq473509-82	Len: 2255	Check: 9925	Weight: 1.00
Name: hrv-85	Len: 2255	Check: 854	Weight: 1.00
Name: pico-85	Len: 2255	Check: 1136	Weight: 1.00
Name: dq473504-88	Len: 2255	Check: 95	Weight: 1.00

TableS3.hrvPro.Nov6.txt

Name: a10937-89	Len: 2255	Check: 3855	Weight: 1.00
Name: hrv-89	Len: 2255	Check: 4028	Weight: 1.00
Name: hrv-89-f08	Len: 2255	Check: 2571	Weight: 1.00
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Name: m16248-89	Len: 2255	Check: 3855	Weight: 1.00
Name: hrv-90	Len: 2255	Check: 4017	Weight: 1.00
Name: hrv-94	Len: 2255	Check: 5578	Weight: 1.00
Name: ef173419-94	Len: 2255	Check: 5531	Weight: 1.00
Name: hrv-95	Len: 2255	Check: 2386	Weight: 1.00
Name: hrv-96	Len: 2255	Check: 2237	Weight: 1.00
Name: hrv-98	Len: 2255	Check: 2787	Weight: 1.00
Name: hrv-100	Len: 2255	Check: 9900	Weight: 1.00
Name: ef186077-qpm	Len: 2255	Check: 6593	Weight: 1.00
Name: ef077279-nat001	Len: 2255	Check: 536	Weight: 1.00
Name: ny1078	Len: 2255	Check: 1461	Weight: 1.00
Name: ef582385-c024	Len: 2255	Check: 3450	Weight: 1.00
Name: ef077280-nat045	Len: 2255	Check: 558	Weight: 1.00
Name: ef582387-c026	Len: 2255	Check: 7362	Weight: 1.00
Name: ef582386-c025	Len: 2255	Check: 255	Weight: 1.00
Name: dq473485-03	Len: 2255	Check: 5948	Weight: 1.00
Name: ef173422-03	Len: 2255	Check: 6362	Weight: 1.00
Name: dq473490-04	Len: 2255	Check: 8918	Weight: 1.00
Name: hrv-05	Len: 2255	Check: 3037	Weight: 1.00
Name: dq473486-06	Len: 2255	Check: 2318	Weight: 1.00
Name: l05355-14	Len: 2255	Check: 153	Weight: 1.00
Name: k02121-14	Len: 2255	Check: 86	Weight: 1.00
Name: ef173420-17	Len: 2255	Check: 3028	Weight: 1.00
Name: hrv-26	Len: 2255	Check: 7203	Weight: 1.00
Name: hrv-27	Len: 2255	Check: 815	Weight: 1.00
Name: ef173421-27	Len: 2255	Check: 815	Weight: 1.00
Name: dq473487-35	Len: 2255	Check: 3021	Weight: 1.00
Name: hrv-35	Len: 2255	Check: 2541	Weight: 1.00
Name: ef173423-37	Len: 2255	Check: 5738	Weight: 1.00
Name: hrv-42	Len: 2255	Check: 1573	Weight: 1.00
Name: dq473488-48	Len: 2255	Check: 2160	Weight: 1.00
Name: hrv-52	Len: 2255	Check: 4800	Weight: 1.00
Name: hrv-52-f10	Len: 2255	Check: 1413	Weight: 1.00
Name: ef173424-52	Len: 2255	Check: 5880	Weight: 1.00
Name: hrv-69	Len: 2255	Check: 7959	Weight: 1.00
Name: dq473489-70	Len: 2255	Check: 7471	Weight: 1.00
Name: hrv-72	Len: 2255	Check: 1505	Weight: 1.00
Name: hrv-79	Len: 2255	Check: 2821	Weight: 1.00
Name: hrv-83	Len: 2255	Check: 4330	Weight: 1.00
Name: hrv-84	Len: 2255	Check: 6613	Weight: 1.00
Name: hrv-86	Len: 2255	Check: 3381	Weight: 1.00
Name: hrv-91	Len: 2255	Check: 8414	Weight: 1.00
Name: hrv-92	Len: 2255	Check: 2492	Weight: 1.00
Name: ef173425-93	Len: 2255	Check: 691	Weight: 1.00
Name: hrv-97	Len: 2255	Check: 981	Weight: 1.00
Name: hrv-99	Len: 2255	Check: 839	Weight: 1.00

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annotation	M.....H				
af499637-cva13	MGAQVSSQKV	GAHENTNVAT	GGSTVNYTTI	NYYKDSASNA	ASKQDFSQDP
af546702-cva21	MGAQVSTQKT	GAHENQNVA	NGSTINYTTI	NYYKDSASNS	ATRQDLSQDP
v01149-pv1m	MGAQVSSQKV	GAHENSNRAY	GGSTINYTTI	NYYRDSASNA	ASKQDFSQDP

TableS3.hrvPro.Nov6.txt

d00239-01	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
pico-01	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-01	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
x02316-02	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASNG	ASKLEFTQDP
hrv-07	MGAQVSRQNV	GTHSTQNAVT	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
dq473503-07	MGAQVSRQNV	GTHSTQNAVT	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-08	MGAQVSRQNV	GTHSTQNAVS	GGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
pico-09	MGAQVSRQNV	GTHSTQNSVT	NGSSLNYFNI	NYFKDAASSR	ASKLEFSQDP
hrv-09	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-09-f01	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-09-f02	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473498-10	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-10	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
ef173414-11	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
ef173415-12	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-13	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-13-f03	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473493-15	MGAQVSRQNV	GTHSTQNTVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
l24917-16	MGAQVSRQNV	GTHSTQNMVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-18	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASHG	ASKLDFSQDP
hrv-19	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-20	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-21	MGTQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-22	MGAQVSRQNV	GTHSTQNTVS	NGSSLNFFNI	NYFKDAASSG	ASKLEFSQDP
dq473497-23	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASNG	ASKLEFSQDP
hrv-24	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
ef173416-24	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-25	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473508-28	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-29	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473512-30	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASNG	ASKLDFTQDP
hrv-30	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASNG	ASKLDFTQDP
hrv-31	MGAQVSRQNV	GTHSTQNMVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-32	MGAQVSRQNV	GTHSTQNSVT	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-33	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-34	MGAQVSRQNV	GTHSTQNTVS	NGSSLNYFNI	NYFKDAASHG	ASKLDFSQDP
dq473501-34	MGAQVSRQNV	GTHSTQNTVS	NGSSLNYFNI	NYFKDAASHG	ASKLDFSQDP
dq473505-36	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-38	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473495-38	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
ay751783-39	MGAQVSRQNV	GTHSTQNSVS	GGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-40	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473491-41	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-43	MGAQVSRQNV	GTHSTQNTVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473499-44	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-45	MGAQVSRQNV	GTHSTQNTVT	GGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
dq473506-46	MGAQVSRQNV	GTHSTQNTVA	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-47	MGAQVSRQNV	GTHSTQNMVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473496-49	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASNG	ASKLEFTQDP
hrv-49-f04	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASNG	ASKLEFTQDP
hrv-50	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASHG	ASKLDFSQDP
hrv-51	MGAQVSRQNV	GTHSTQNTVA	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
dq473507-53	MGAQVSRQNV	GTHSTQNAVT	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-54	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-54-f05	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473511-55	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-56	MGAQVSRQNV	GTHSTQNTVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-57	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP

TableS3.hrvPro.Nov6.txt

hrv-58	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSX	ASRLDFSQDP
dq473500-59	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-60	MGAQVSRQNV	GTHSTQNVVS	SGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-61	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-62	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-63	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-64	MGAQVSRQNV	GTHSTQNSVS	NGSSLNFFNI	NYFKDAASSG	ASKLEFSQDP
ef173417-64	MGAQVSRQNV	GTHSTQNSVS	NGSSLNFFNI	NYFKDAASSG	ASKLEFSQDP
hrv-65	MGAQVSRQNV	GTHSTQNTVA	NGSSLNYFNI	NYFKDAASNG	ASRLDFSQDP
hrv-66	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-67	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-68	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-71	MGAQVSRQNV	GTHSTQNTVA	NGSSLNYFNI	NYFKDAASNG	ASRLDFSQDP
dq473492-73	MGAQVSRQNV	GTHSTQNSVT	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473494-74	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473510-75	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473502-76	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-76	MGAQVSRQNV	GTHSTQNAVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-77	MGAQVSRQNV	GTHSTQNMVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-78	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
ef173418-78	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-80	MGAQVSRQNV	GTHSTQNAVT	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-81	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-81-f06	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-81-f07	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-82	MGAQVSRQNV	GTHSTQNMVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473509-82	MGAQVSRQNV	GTHSTQNMVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-85	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
pico-85	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
dq473504-88	MGAQVSRQNV	GTHSTQNAVT	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
a10937-89	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-89	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-89-f08	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-89-f09	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
m16248-89	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-90	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-94	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
ef173419-94	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-95	MGAQVSRQNV	GTHSTQNAVS	GGSSLNYFNI	NYFKDAASSG	ASRLDFSQDP
hrv-96	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-98	MGAQVSRQNV	GTHSTQNSVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
hrv-100	MGAQVSRQNV	GTHSTQNTVS	NGSSLNYFNI	NYFKDAASSG	ASKLEFSQDP
ef186077-qpm	MGAQVSRQSV	GSHEHMIHAG	TGAVVKYFNV	NYKDAASSG	LTKQDFSQDP
ef077279-nat001	MGAQVSRQSV	GSHEHMIHAG	TGAVVKYFNV	NYKDAASSG	LSKQDFSQDP
ny1078	MGAQVSKQSV	GAHEHMHVHAG	SGAVVKYFNI	NYKDAASSG	LTKQDFSQDP
ef582385-c024	MGAQVSKQNV	GSHEHVSAT	GGSVIKYFNI	NYKDSASSG	LTKQDFSQDP
ef077280-nat045	MGAQVSKQNV	GSHEHVSAS	GGSVIKYFNI	NYKDSASSG	LTKQDFSQDP
ef582387-c026	MGAQVSRQSV	GSHEHMIHAG	TGAVVKYFNV	NYKDAASSG	LTKQDFSQDP
ef582386-c025	MGAQVSKQNV	GSHEHGISAS	SGSVIKYFNI	NYKDSASSG	LSKQDFSMDP
dq473485-03	MGAQVSTQKS	GSHEHQNILT	NGSNQFTFTVI	NYKDAASSS	SAGQSFMDP
ef173422-03	MGAQVSTQKS	GSHEHQNILT	NGSNQFTFTVI	NYKDAASSS	SAGQSFMDP
dq473490-04	MGAQVSTQKS	GSHEHQNILT	NGSNQFTFTVI	NYKDAASSS	SAGQSLMDP
hrv-05	MGAQVSTQKS	GSHEHQNILT	NGSNQFTFTVI	NYKDAASSS	SAGQSFMDP
dq473486-06	MGAQVSTQKS	GSHEHQNILT	NGSNQFTFTVI	NYKDAASSS	SAGQSFMDP
l05355-14	MGAQVSTQKS	GSHEHQNILT	NGSNQFTFTVI	NYKDAASTS	SAGQSLMDP
k02121-14	MGAQVSTQKS	GSHEHQNILT	NGSNQFTFTVI	NYKDAASTS	SAGQSLMDP
ef173420-17	MGAQVSTQKS	GSHEHQNILT	NGSTQHFTVI	NYKDAASSS	SAGQSFMDP
hrv-26	MGAQVSTQKS	GSHEHQNFLS	NGSNQFTFTVI	NYKDAASSS	SAGQSLMDP

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hrv-27	MGAQVSTQKS	GSHENQNILT	NGSNQTFTVI	NYYKDAASSS	SAGQSFSMDP
ef173421-27	MGAQVSTQKS	GSHENQNILT	NGSNQTFTVI	NYYKDAASSS	SAGQSFSMDP
dq473487-35	MGAQVSTQKS	GSHENQNILT	NGSHQTFTVI	NYYKDAASSS	SASQSFSMDP
hrv-35	MGAQVSTQKS	GSHENQNILT	NGSHQTFTVI	NYYKDAASSS	SASQSFSMDP
ef173423-37	MGAQVSTQKS	GSHENQNILT	NGSNQTFTVI	NYYKDAASSS	SASQSFSMDP
hrv-42	MGAQVSTQKS	GSHENQNILT	NGSNQTFTVI	NYYKDAASSS	SAGQSLSM DP
dq473488-48	MGAQVSTQKT	GSHENQNILT	NGSTQHFTVI	NYYKDAASSS	SAGQSFSMDP
hrv-52	MGAQVSTQKS	GSHENQNILT	NGSTQNFTVI	NYYKDAASSS	SAGQSFSMDP
hrv-52-f10	MGAQVSTQKS	GSHENQNILT	NGSTQNFTVI	NYYKDAASSS	SAGQSFSMDP
ef173424-52	MGAQVSTQKS	GSHENQNILT	NGSTQNFTVI	NYYKDAASSS	SAGQSFSMDP
hrv-69	MGAQVSTQKS	GSHENQNILT	NGSTQHFTVI	NYYKDAASSS	SAGQSFSMDP
dq473489-70	MGAQVSTQRS	GSHENQNILT	NGSTQHFTVI	NYYKDAASSS	SAGQSFSMDP
hrv-72	MGAQVSTQKS	GSHENQNILT	NGSNQTFTVI	NYYKDAASSS	SAGQSLSM DP
hrv-79	MGAQVSTQKS	GSHENQNILT	NGSHQTFTVI	NYYKDAASSS	SAGQSLSM DP
hrv-83	MGAQVSTQKS	GSHENQNILT	NGSHQTFTVI	NYYKDAASSS	SAGQSLSM DP
hrv-84	MGAQVSTQKS	GSHENQNFLT	NGSNQTFTVI	NYYKDAASSS	SAGQSLSM DP
hrv-86	MGAQVSTQRS	GSHENQNILT	NGSHQTFTVI	NYYKDAASAS	SAGQSFSMDP
hrv-91	MGAQVSTQKS	GSHENQNILT	NGSTQHFTVI	NYYKDAASSS	SASQSFSMDP
hrv-92	MGAQVSTQKS	GSHENQNILT	NGSHQTFTVI	NYYKDAASSS	SAGQSLSM DP
ef173425-93	MGAQISTQKS	GSHENQNILT	NGSNQTFTVI	NYYKDAASSS	SAGQSLSM DP
hrv-97	MGAQVSTQKS	GSHENQNILT	NGSHQTFTVI	NYYKDAASSS	SAGQSLSM DP
hrv-99	MGAQVSTQKS	GSHENQNILT	NGSNQTFTVI	NYYKDAASSS	SAGQSLSM DP
51					
annotation	HHHHH.....	QS	.....	.....BB	BBB.....
af499637-cva13	SKFTEPVKDV	LIKSAPALNS	PNIEACGYSD	RVMQLTLGNS	TITTQEAANS
af546702-cva21	SKFTEPVKDL	MLKTAPALNS	PNVEACGYSD	RVRQITLGNS	TITTQEAANA
v01149-pv1m	SKFTEPIKDV	LIKTAPMLNS	PNIEACGYSD	RVLQLTLGNS	TITTQEAANS
d00239-01	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RIIQITRGDS	TITSQDVANA
pico-01	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RIMQITRGDS	TITSQDVANA
hrv-01	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RIMQITRGDS	TITSQDVANA
x02316-02	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-07	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RLMQITRGDS	TITSQDIANA
dq473503-07	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RLMQITRGDS	TITSQDIANA
hrv-08	SKFTDPVKDV	LTKGIPTLQS	PTVEACGYSD	RIIQITRGDT	TITSQDIANA
pico-09	SKFTDPVKSV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-09	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-09-f01	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-09-f02	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473498-10	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-10	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
ef173414-11	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
ef173415-12	SKFTDPVKDV	LTKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDIANA
hrv-13	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-13-f03	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473493-15	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
l24917-16	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-18	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-19	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQXVANA
hrv-20	SKFTDPVKDV	LLKDIPTLQS	PSVEACGYSD	RIIQITRGNS	TITSQDIANA
hrv-21	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-22	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473497-23	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-24	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIMQITRGDS	TITSQDVANA
ef173416-24	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIMQITRGDS	TITSQDVANA
hrv-25	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIMQITRGDS	TITSQDVANA
dq473508-28	SKFTDPVKDV	LTKGIPTLQS	PSVEACGYSD	RIMQITRGNS	TITSQDVANA
hrv-29	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIMQITRGDS	TITSQDVANA

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dq473512-30	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-30	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-31	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIMQITRGDS	TITSQDVANA
hrv-32	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-33	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-34	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473501-34	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473505-36	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RLIQITRGDS	TITSQDIANA
hrv-38	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473495-38	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
ay751783-39	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-40	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473491-41	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-43	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473499-44	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIMQITRGDS	TITSQDVANA
hrv-45	SKFTDPVKDV	LTKGIPTLQS	PTVEACGYSD	RIIQITRGDT	TITSQDIANA
dq473506-46	SKFTDPVKDV	LTKGIPTLQS	PSVEACGYSD	RIIQITRGNS	TITSQDIANA
hrv-47	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIMQITRGDS	TITSQDVANA
dq473496-49	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-49-f04	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-50	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-51	SKFTDPVKDV	LIKGVPTLQS	PTVEACGYSD	RIIQITRGNS	TITSQDIANA
dq473507-53	SKFTDPVKDV	LTKGIPTLQS	PSVEACGYSD	RIIQITRGNS	TITSQDVANA
hrv-54	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TMTSQDVANA
hrv-54-f05	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473511-55	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-56	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-57	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-58	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RLIQITRGDS	TITSQDIANA
dq473500-59	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-60	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TIISQDVANA
hrv-61	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-62	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-63	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-64	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
ef173417-64	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-65	SKFTDPVKDV	LTKGIPTLQS	PSVEACGYSD	RIIQITRGNS	TITSQDIANA
hrv-66	SKFTDPVKDV	LXKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-67	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-68	SKFTDPVKDV	LMKDIPTLQS	PSVEACGYSD	RIIQITRGNS	TITSQDIANA
hrv-71	SKFTDPVKDV	LIKGVPTLQS	PSVEACGYSD	RIIQITRGNS	TITSQDIANA
dq473492-73	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473494-74	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473510-75	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473502-76	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-76	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-77	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-78	SKFTDPVKDV	LTKGVPTLQS	PSVEACGYSD	RIIQITRGDS	TITSQDIANA
ef173418-78	SKFTDPVKDV	LTKGVPTLQS	PSVEACGYSD	RIIQITRGDS	TITSQDIANA
hrv-80	SKFTDPVKDV	LTKGIPTLQS	PSVEACGYSD	RIIQITRGNS	TITSQDIANA
hrv-81	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-81-f06	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-81-f07	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-82	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473509-82	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-85	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
pico-85	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
dq473504-88	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RLMQITRGDS	TITSQDIANA

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a10937-89	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RLIQITRGDS	TITSQDTANA
hrv-89	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RLIQITRGDS	TITSQDIANA
hrv-89-f08	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RLIQITRGDS	TITSQDIANA
hrv-89-f09	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RLIQITRGDS	TITSQDIANA
m16248-89	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RLIQITRGDS	TITSQDTANA
hrv-90	SKFTDPVKDV	LEKGIPTLQS	PSVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-94	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
ef173419-94	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-95	SKFTDPVKDV	LTGKIPTLQS	PTVEACGYSD	RIIQITRGDT	TITSQDIANA
hrv-96	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-98	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
hrv-100	SKFTDPVKDV	LEKGIPTLQS	PTVEACGYSD	RIIQITRGDS	TITSQDVANA
ef186077-qpm	SKFTQPVADI	LTN..PALMS	PSIEACGFSD	RLKQITIGNS	TITTQDAVNT
ef077279-nat001	SKFTQPVADV	LTN..PALMS	PSVEACGFSD	RLKQITIGNS	TITTQDAVNT
ny1078	SKFTQPVADL	LTN..PALMS	PSVEACGYSD	RLKQITIGSS	TITTQDSVNT
ef582385-c024	SKFTQPLAEA	LTN..PALMS	PTVEACGMSD	RLKQITIGNS	TITTQDTLNS
ef077280-nat045	SKFTQPIADV	LTN..PALMS	PTVEACGFSD	RLKQITIGNS	TITTQDSLNT
ef582387-c026	SKFTQPVADI	LSN..PALMS	PSIEACGFSD	RLKQITIGNS	TITTQDAVNT
ef582386-c025	EKFTKPLADV	MTN..PALMS	PSIEACGFSD	RLKQITIGSS	TITTQDTLNT
dq473485-03	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
ef173422-03	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITMGNS	TITTQEAANA
dq473490-04	SKFTEPVKDL	MLKGAPALNS	PNIEACGYSD	RVEQITLGNS	TITTQEAANS
hrv-05	SKFTEPVKDI	MLKGAPALNS	PNIEACGYSD	RVEQITLGNS	TITTQEAANS
dq473486-06	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
l05355-14	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
k02121-14	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
ef173420-17	SKFTEPVKDI	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-26	SKFTEPVKDL	MLKGAPALNS	PNIEACGYSD	RVEQITLGNS	TITTQEAANT
hrv-27	SKFTEPVKDI	MLKGAPALNS	PNIEACGYSD	RVEQITIGNS	TITTQEAANA
ef173421-27	SKFTEPVKDI	MLKGAPALNS	PNIEACGYSD	RVEQITIGNS	TITTQEAANA
dq473487-35	SKSTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-35	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
ef173423-37	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-42	SKFTEPVKDI	MLKGAPALNS	PNIEACGYSD	RVEQITLGNS	TITTQEAANS
dq473488-48	SKFTEPVKDI	MIKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-52	SKFTEPVKDI	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-52-f10	SKFTEPVKDI	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
ef173424-52	SKFTEPVKDI	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-69	SKFTEPVKDI	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
dq473489-70	SKFTEPVKDI	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-72	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-79	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-83	SRFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-84	SKFTEPVKDL	MLKGAPALNS	PNIEACGYSD	RVEQITIGNS	TITTQEAANA
hrv-86	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-91	SKFTEPVKDI	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
hrv-92	SKFTEPVKDL	MLKGAPALNS	PNVEACGYSD	RVQQITLGNS	TITTQEAANA
ef173425-93	SKFTEPVKDI	MLKGAPALNS	PNIEACGYSD	RVEQITIGNS	TITTQEAANA
hrv-97	SKFTEPVKDI	MLKGAPALNS	PNVEACGYSD	RVEQITIGNS	TITTQEAANA
hrv-99	SKFTEPVKDI	MLKGAPALNS	PNIEACGYSD	RVEQITLGNS	TITTQEAANT

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annotation			HHHZHH	..BBBBBBBB	BBCBB
af499637-cva13	VVAYGVWPSY	LSDKDANPVD	QPTDPVVSAC	RFYTLDTVEW	DKESKGWWWK
af546702-cva21	IVAYGEWPTY	INDSEANPVD	APTEPDVSSN	RFYTLESVSW	KTTSRGWWWK
v01149-pv1m	VVAYGRWPEY	LRDSEANPVD	QPTDPDVAAC	RFYTLDTVSW	TKESRGWWWK
d00239-01	VVGYGWPHY	LTPQDATAID	KPTQPDTSSN	RFYTLESKHW	NGDSKGWWWK
pico-01	VVGYGWPHY	LTPQDATAID	KPTQPDTSSN	RFYTLESKHW	NGSSKGWWWK

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hrv-01	VVGYGWPHY	LTPQDATAID	KPTQPDTSN	RFYTLESKH	NGSSKGWWWK
x02316-02	IVAYGVWPHY	LSSKDASAI	KPSQPDTSN	RFYTLRSVT	SSSSKGWWWK
hrv-07	VVGYGWPSY	LTPDDATAID	KPTQPDTSN	RFYTLDSTW	TSASLGWWWK
dq473503-07	VVGYGWPSY	LTPDDATAID	KPTQPDTSN	RFYTLDSTW	TSASLGWWWK
hrv-08	VVAYGVWPTY	LNSKDATAID	KPTQPDSTN	RFYTLESREW	RSDSKGWWWK
pico-09	VVGYGWPHY	LTPQDATAID	KPSHPDTSN	RFYTLESKTW	SGDSKGWWWK
hrv-09	IVGYGVWPHY	LTPQDATAIX	KPSHPDTSN	RFYTLESKTW	SSDSKGWWWK
hrv-09-f01	VVGYGWPHY	LTPQDATAID	KPSHPDTSN	RFYTLESKTW	SNESKGWWWK
hrv-09-f02	VVGYGWPHY	LTPQDATAID	KPSHPDTSN	RFYTLESKTW	SNESKGWWWK
dq473498-10	VVGYGWPHY	LSATDATAID	KPTQPDTSN	RFYTLESKVW	TSTSQGWWWWK
hrv-10	VVGYGWPHY	LSATDATAID	KPTQPDTSN	RFYTLESKVW	TSTSQGWWWWK
ef173414-11	VVGYGWPHY	LTSQDATAID	KPSRPDTSN	RFYTLESKH	TSTSKGWWWK
ef173415-12	VVAYGVWPHY	LSAEDANAID	KPTRPDTSN	RFYTLESKQW	MENSKGWWWK
hrv-13	VVGYGWPHY	LTPQDATAID	KPTRPDTSN	RFYTLKSQLW	TAESKGWWWK
hrv-13-f03	VVGYGWPHY	LTPQDATAID	KPTRPDTSN	RFYTLKSQLW	TAESKGWWWK
dq473493-15	VVGYGWPHY	LTPEDATAID	KPSHPDTSN	RFYTLDKSLW	SGDSKGWWWK
l24917-16	VVGYGWPHY	LTPQDATAID	KPTQPDTSN	RFYTLDKMW	NSTSKGWWWK
hrv-18	VVGYGWPHY	LTPQDATAID	KPSRPDTSN	RFYTLESKTW	DSSSKGWWWK
hrv-19	VVGYGWPHY	LTPEDATAID	KPSQPDSTN	RFYTLESKVW	DSESKGWWWK
hrv-20	VVAYGVWPQY	LTPDHASAI	KPTHDPDISSN	RFYTLESKEW	TRDSKGWWWK
hrv-21	VVGYGWPHY	LTPQDATAID	KPSRPDTSN	RFYTLESKMW	TSDSKGWWWK
hrv-22	VVGYGWPHY	LTPEDATAID	KPTQPDTSN	RFYTLESKIW	ASNSKGWWWK
dq473497-23	VVAYGVWPHY	LSSSEDAID	KPSRPDTSN	RFYTLKSITW	SRSSKGWWWK
hrv-24	VVAYGVWPHY	LTPQDATAID	KPSRPDTSN	RFYTLESKTW	TGTSGKWWWK
ef173416-24	VVAYGVWPHY	LTPQDATAID	KPSRPDTSN	RFYTLESKTW	TGTSGKWWWK
hrv-25	VIGYGIWPHY	LSAEDATAID	KPTQPDTSN	RFYTLESKTW	HADSKGWWWK
dq473508-28	VVAYGVWPEY	LPSQDASAI	KPTHDPDTSN	RFYTLESKNW	TETSKGWWWK
hrv-29	VIGYGVWPHY	LSAEDATAID	KPTQPDTSN	RFYTLESKTW	NRQSKGWWWK
dq473512-30	VVAYGVWPHY	LSSKDATAID	KPSRLDTSN	RFYTLKSIIW	SGASKGWWWK
hrv-30	VVAYGVWPHY	LSSKDATAID	KPSRPDTSN	RFYTLKSIIW	SGASKGWWWK
hrv-31	VVGYGIWPHY	LSAKDATAID	KPTQPDTSN	RFYTLESKIW	TRDSKGWWWK
hrv-32	VVAYGVWPHY	LTPQDATAID	KPSHPDTSN	RFYTLESKNW	DSESKGWWWK
hrv-33	VVGYGWPHY	LTPQDATAID	KPSRPDTSN	RFYTLASKEW	DFNSKGWWWK
hrv-34	VVGYGWPHY	LTPQDATAID	KPSRPDTSN	RFYTLESKMW	DSSSKGWWWK
dq473501-34	VVGYGWPHY	LTPQDATAID	KPSRPDTSN	RFYTLESKMW	DSSSKGWWWK
dq473505-36	VVGYGWPSY	LTPDDATAID	KPTQPDTSN	RFYTLESRSW	TSSSSGWWWK
hrv-38	VVGYGWPHY	LTSRDATAID	KPSQPDTSN	RFYTLESKTW	TSDSKGWWWK
dq473495-38	VVGYGWPHY	LTSRDATAID	KPSQPDTSN	RFYTLESKTW	TSDSKGWWWK
ay751783-39	VVGYGWPHY	LTADDASAI	KPTQPDTSN	RFYTLESKVW	KRDSKGWWWK
hrv-40	VVGYGWPHY	LTPQDATAID	KPSQPDTSN	RFYTLESKEW	TNSSQGWWWWK
dq473491-41	VVGYGWPHY	LTSQDATAID	KPTRPDTSN	RFYTLESQW	TNTSKGWWWK
hrv-43	VVAYGVWPHY	LTPQDATAID	KPSQPDTSN	RFYTLESRSW	DSTSKGWWWK
dq473499-44	VIGYGVWPHY	LSAEDATAID	KPTQPDTSN	RFYTLESKTW	DRQSKGWWWK
hrv-45	VVGYGWPTY	LDSKDASAI	KPTQPDTSN	RFYTLESKEW	TPDSKGWWWK
dq473506-46	VVGYGWPEY	LTDDDASAI	KPTHDPDTSN	RFYTLESKH	ENNSKGWWWK
hrv-47	VVGYGWPHY	LSAKDATAID	KPTQPDTSN	RFYTLESKIW	KPDSKGWWWK
dq473496-49	VVAYGVWPHY	LSSKDASAI	KPSRPDTSN	RFYTLKSVTW	TNSSKGWWWK
hrv-49-f04	VVAYGVWPHY	LSSKDASAI	KPSRPDTSN	RFYTLKSVTW	SNSSKGWWWK
hrv-50	VVGYGWPHY	LSSQDATAID	KPSRPDTSN	RFYTLESKSW	DSMSKGWWWK
hrv-51	VVAYGVWPHY	LSDTDANAID	KPSHPDTSN	RFYTLDKSLW	SNESKGWWWK
dq473507-53	VVAYGVWPEY	LSAQDASAI	KPSHPDTSN	RFYTLESKNW	TNTSKGWWWK
hrv-54	VVGYGWPHY	LTAQDATAID	KPTQPDTSN	RFYTLESKLW	DETSKGWWWK
hrv-54-f05	VVGYGWPHY	LTAQDATAID	KPTQPDTSN	RFYTLDKSLW	DETSKGWWWK
dq473511-55	VVGYGWPHY	LTPQDATAID	KPSRPDTSN	RFYTLESKIW	NGTSKGWWWK
hrv-56	VVGYGWPHY	LTPQDATAID	KPTQPDTSN	RFYTLESKVW	TQTSKGWWWK
hrv-57	VVGYGWPHY	LTPQDATAID	KPSRPDTSN	RFYTLESKMW	SSTSKGWWWK
hrv-58	VVGYGWPSY	LTPDDATAID	KPTQPDTSN	RFYTLESRNW	TNSSTGWWWK
dq473500-59	VVGYGWPHY	LTPQDATAID	KPTQPDTSN	RFYTLESKTW	VETSKGWWWK

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hrv-60	VVGYGWPHY	LTAQDATAID	KPSQPDSSN	RFYTLESKLW	TNESKGWWWK
hrv-61	VVGYGWPHY	LTPQDATAID	KPSKPDTSSN	RFYTLESQW	TNESKGWWWK
hrv-62	VIGYGIWPHY	LSAEDATAID	KPTQPDSSN	RFYTLESKIW	HTNSKGWWWK
hrv-63	VVGYGWPHY	LSSQDATAID	KPTQPDSSN	RFYTLESKVW	TRTSKGWWWK
hrv-64	VVGYGWPHY	LTPQDATAID	KPTQPDSSN	RFYTLESKTW	ASNSKGWWWK
ef173417-64	VVGYGWPHY	LTPQDATAID	KPTQPDSSN	RFYTLESKTW	ASNSKGWWWK
hrv-65	VVGYGWPHY	LSDADANAID	KPTHDPDTSSN	RFYTLDKSLW	TSTSKGWWWK
hrv-66	VVGYGWPHY	LSGADANAID	KPSRPDTSSN	RFYTLESKVW	TPTSQGWWWWK
hrv-67	VVGYGWPHY	LTPQDATAID	KPSHPDTSSN	RFYTLESKTW	SADSKGWWWK
hrv-68	VVAYGVWPHY	LSPDDASAID	KPTHDPDVSSN	RFYTLDKSEW	TNESKGWWWK
hrv-71	VVAYGVWPHY	LSDADANAID	KPSHPDTSSN	RFYTLDKSLW	ENGSKGWWWK
dq473492-73	VVAYGVWPHY	LTPQDATAID	KPTRPDTSSN	RFYTLESQMW	SPEKSGWWWK
dq473494-74	VVGYGWPHY	LTPEDATAID	KPSHPDTSSN	RFYTLESKLW	NGESKGWWWK
dq473510-75	VVAYGVWPHY	LTPQDATAID	KPSQPETSSN	RFYTLESKTW	DSSSKGWWWK
dq473502-76	VVGYGWPHY	LTSQDATAID	KPSRPDTSSN	RFYTLESKEW	SANSKGWWWK
hrv-76	VVGYGWPHY	LTSQDATAID	KPSRPDTSSN	RFYTLESKEW	SANSKGWWWK
hrv-77	VVGYGWPHY	LSAADANAID	KPTQPDSSN	RFYTLESKVW	SSTSQGWWWWK
hrv-78	VVAYGVWPHY	LTAKDASAID	KPTQPDSSN	RFYTLESKNW	QSDSKGWWWK
ef173418-78	VVAYGVWPHY	LTAKDASAID	KPTQPDSSN	RFYTLESKNW	QSDSKGWWWK
hrv-80	VVAYGVWPHY	LSSDDASAID	KPTHDPDTSSN	RFYTLESQW	DTNSKGWWWK
hrv-81	VVGYGWPHY	LNSRDAVAID	KPTQPDSSN	RFYTLDKMW	DNSKSGWWWK
hrv-81-f06	VVGYGWPHY	LNSRDAVAID	KPTQPDSSN	RFYTLDKMW	DSNSKGWWWK
hrv-81-f07	VVGYGWPHY	LNSRDAVAID	KPTQPDSSN	RFYTLDKMW	DSNSKGWWWK
hrv-82	VVGYGWPHY	LSPEDATAID	KPTRPDTSSN	RFYTLESKIW	TSDSKGWWWK
dq473509-82	VVGYGWPHY	LSPEDATAID	KPTRPDTSSN	RFYTLESKIW	TRDSKGWWWK
hrv-85	VVGYGWPHY	LTPQDATAID	KPSQPDSSN	RFYTLESKEW	TNSSQGWWWWK
pico-85	VVGYGWPHY	LTPQDATAID	KPSQPDSSN	RFYTLESKEW	TNSSQGWWWWK
dq473504-88	VVGYGWPHY	LTPDDATAID	KPTQPDSSN	RFYTLESRTW	TTASTGWWWWK
a10937-89	VVAYGVWPHY	LTPDDATAID	KPTQPDSSN	RFYTLDKRSW	TSASSGWWWWK
hrv-89	VVAYGVWPHY	LTPDDATAID	KPTQPDSSN	RFYTLDKRSW	TSASSGWWWWK
hrv-89-f08	VVAYGVWPHY	LTPDDATAID	KPTQPDSSN	RFYTLDKRSW	TSASSGWWWWK
hrv-89-f09	VVAYGVWPHY	LTPDDATAID	KPTQPDSSN	RFYTLDKRSW	TSASSGWWWWK
m16248-89	VVAYGVWPHY	LTPDDATAID	KPTQPDSSN	RFYTLDKRSW	TSASSGWWWWK
hrv-90	VVAYGVWPHY	LTPQDATAID	KPSRPDTSSN	RFYTLESKTW	TGSSKGWWWK
hrv-94	VVGYGWPHY	LTPQDATAID	KPTQPDSSN	RFYTLESKIW	TTDSKGWWWK
ef173419-94	VVGYGWPHY	LTPQDATAID	KPTQPDSSN	RFYTLESKIW	TTDSKGWWWK
hrv-95	VVAYGVWPHY	LNSKDATAID	KPTQPDSTN	RFYTLESREW	RSDSKGWWWK
hrv-96	VVGYGWPHY	LTPQDATAID	KPSRPDTSSN	RFYTLESQW	SGDSKGWWWK
hrv-98	VVGYGWPHY	LTAQDATAID	KPTQPDSSN	RFYTLESKLW	HETSKGWWWK
hrv-100	VVGYGWPHY	LSAADANAID	KPTQPDSSN	RFYTLESKIW	TGTSQGWWWWK
ef186077-qpm	IVAYGEWPHY	LSDIDATSVD	KPTHPESSD	RFYTLKSVTW	EVGSSGWWWWK
ef077279-nat001	IVAYGEWPHY	LSDLDATSV	KPTHPESSD	RFYTLKSVEW	QSSSEGWWWK
ny1078	IVAYGEWPHY	LSDLDASSVD	KPTHPESSD	RFYTLDKSVQW	GGSSKGWWWK
ef582385-c024	ILAYGEWPHY	LSDLDASSVD	KPTHPESSD	RFYTLTSVDW	TTTSKGWWWK
ef077280-nat045	IVAYGEWPHY	LSDLDATSV	KPTHPESSD	RFYTLESVMW	HGSSRGWWWK
ef582387-c026	IVAYGEWPHY	LSDMDATSVD	KPTHPESSD	RFYTLNSVTW	QGGSLGWWWWK
ef582386-c025	VVAYGEWPHY	LKDTDASAVD	KPTHPESTD	RFYTLTSVNG	MASSKGWWWK
dq473485-03	IVCYAEWPHY	LSDNDASDVN	KTSKPDISVC	RFYTLDKSTW	KATSKGWCWK
ef173422-03	IVCYAEWPHY	LSDNDASDVN	KTSKPDISVC	RFYTLDKSTW	KATSKGWCWK
dq473490-04	IVAYGEWPHY	LDDSDASDVN	KTTKPDISAC	RFYTLDKSTW	TNLSKGWCWK
hrv-05	IVAYGEWPHY	LSDVDASDVN	KTTKPDTSAC	RFYTLDKMW	TQGSKGWCWK
dq473486-06	VVCYAEWPHY	LPDGDASDVN	KTSKPDTSVC	RFYTLESKTW	QNSSKGWCWK
l05355-14	VVCYAEWPHY	LPDVDASDVN	KTSKPDTSVC	RFYTLDKSTW	TTGSKGWCWK
k02121-14	VVCYAEWPHY	LPDVDASDVN	KTSKPDTSVC	RFYTLDKSTW	TTGSKGWCWK
ef173420-17	VVAYAEWPHY	LADIDASDVN	KTSQPDTSVC	RFYTLESKTW	TRDSKGWCWK
hrv-26	VVAYGEWPHY	LSDVDASDVN	KTTKPDTSAC	RFYTLQSKMW	NPDSKGWCWK
hrv-27	IVAYAEWPHY	LKDDASDVN	KPTRPDTSAC	RFYTLASKTW	SRESKGWCWK
ef173421-27	IVAYAEWPHY	LKDDASDVN	KPTRPDTSAC	RFYTLASKTW	SRESKGWCWK

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dq473487-35	VVCYAEWPEY	LSDDDASDVN	KTSKPDTSVC	RFYTLDSKTW	QQDSKGWCWK
hrv-35	VVCYAEWPEY	LSDDDASDVN	KTSKPDTSVC	RFYTLDSKTW	QQDSKGWCWK
ef173423-37	VVCYAEWPEY	LPDKDASDVN	KTSKPDTSVC	RFYTLESKTW	KNSSKGWCWK
hrv-42	IVAYGEWPSF	LSDVDASDVN	KTTKPDTSAC	RFYTLDSKTW	SQSSKGWCWK
dq473488-48	VVAYAEWPSY	LSDMDASDVN	KTSQSDTSVC	RFYTLESKLW	KTTSKGWCWK
hrv-52	VVAYAEWPSY	LSDSDASDVN	KTSQPDTSVC	RFYTLDSKTW	SANSKGWCWK
hrv-52-f10	VVAYAEWPSY	LSDSDASDVN	KTSQPDTSVC	RFYTLDSKTW	SANSKGWCWK
ef173424-52	VVAYAEWPSY	LSDSDASDVN	KTSQPDTSVC	RFYTLDSKTW	SANSKGWCWK
hrv-69	VVAYAEWPSY	LTDTDASDVN	KTSQPDTSVC	RFYTLESKTW	TNLSKGWCWK
dq473489-70	VVAYAEWPSY	LADNDASDVN	KTSQPDTSVC	RFYTLESKTW	TNSSKGWCWK
hrv-72	VVCYAEWPEY	LPDRDASDVN	KTSKPDTSVC	RFYTLDSKMW	QKNSKGWCWK
hrv-79	VVCYAEWPEY	LPDSASDVN	KTSKPDTSVC	RFFTLDSKEW	TQNSKGWCWK
hrv-83	VVCYAEWPEY	LPDKDASDVN	KTSKPDTSVC	RFYTLDSKDW	SANSKGWCWK
hrv-84	IVGYGEWPSF	LDDKDASDVN	KPTRPDTSAC	RFYTLASKTW	SQSSKGWCWK
hrv-86	VVCYAEWPEY	LPDKDASDVN	KTSKPDTSVC	RFYTLDSKTW	NNTSKGWCWK
hrv-91	VVAYAEWPSY	LADSDASDVN	KTSKPDTSVC	RFYTLDSKTW	TRESKGWCWK
hrv-92	VVCYAEWPEY	LSDNDASDVN	KTSKPDTSVC	RFYTLDSKDW	SPSSKGWCWK
ef173425-93	IVAYAEWPSF	LEDTDASDVN	KPTRPDTSAC	RFYTLASKTW	SPASRGWCWK
hrv-97	VVAYAEWPSF	LKDVDASDVN	KPTRPDTSAC	RFYTLASKTW	NPTSKGWCWK
hrv-99	VVAYGEWPSF	LSDNDASDVN	KTTKPDTSAC	RFYTLDSKLW	TQDSKGWCWK
151					200
annotation	BHHHHHHHHA	HHHHHHHHBB	BBBDBBBBBB	BBB	EBBBBB....
af499637-cva13	LPDALKDMGL	FGQNMYHYL	GRSGYTVHVQ	CNASKFHQGT	LGVFAVPEYC
af546702-cva21	LPDCLKDMGM	FGQNMYHYL	GRSGYTIHVQ	CNASKFHQGA	LGVFLIPEFV
v01149-pv1m	LPDALRDMGL	FGQNMYHYL	GRSGYTVHVQ	CNASKFHQGA	LGVFAVPEMC
d00239-01	LPDALKEMGI	FGENMYHYFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMIPEHQ
pico-01	LPDALKDMGI	FGENMYHYFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMIPEHQ
hrv-01	LPDALKDMGI	FGENMYHYFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMIPEHQ
x02316-02	LPDALKDMGI	FGENMFYHYL	GRSGYTIHVQ	CNASKFHQGT	LIVALIPEHQ
hrv-07	LPDALKNMGI	FGENMFYHYFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPEHQ
dq473503-07	LPDALKNMGI	FGENMFYHYFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPEHQ
hrv-08	LPDALKDMGV	FGENMFYHSL	GRAGYMIHVQ	CNASKFHSGT	LLVVAIPEHQ
pico-09	LPDALKDMGI	FGQNMYHYFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPEDQ
hrv-09	LPDALKDMGI	FGQNMYHYFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPEHQ
hrv-09-f01	LPDALKDMGI	FGQNMYHYFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPEHQ
hrv-09-f02	LPDALKDMGI	FGQNMYHYFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPEHQ
dq473498-10	LPDALKDMGI	FGENMFYHYL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIPESHQ
hrv-10	LPDALKDMGI	FGENMFYHYL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIPESHQ
ef173414-11	LPDALRDMGI	FGENMFYHYFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPEHQ
ef173415-12	LPDALKDMGI	FGENMFYHYFL	GRAGYTIHVQ	CNASKFHQGT	LMVVAIPEHQ
hrv-13	LPDALKDMGI	FGENMFYHYFL	GRCGYTVHVQ	CNASKFHQGT	LLIAMIPEHQ
hrv-13-f03	LPDALKDMGI	FGENMFYHYFL	GRSGYTVHVQ	CNASKFHQGT	LLIAMIPEHQ
dq473493-15	LPDALRDMGV	FGQNMYHYFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPEHQ
l24917-16	LPDALKDMGI	FGENMFYHYFL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIPESHQ
hrv-18	LPDALKDMGI	FGENMYHYFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPEHQ
hrv-19	LPDALKDMGV	FGQNMYHYFL	GRSGYTIHVQ	CNASKFHQGT	LIVAAIPEHQ
hrv-20	LPDALKNMGI	FGENLFYHYFL	GRAGYTVHVQ	CNASKFHQGT	LIVAAIPEHQ
hrv-21	LPDALKNMGI	FGENMFYHYFL	GRSGYTVHVQ	CNASKFHQGT	LIVVMIPESHQ
hrv-22	LPDALKDMGI	FGQNMYHYFL	GRSGYTIHVQ	CNASKFHQGT	LIVAAIPEHQ
dq473497-23	LPDALRDMGI	FGENMFYHYL	GRSGYTVHVQ	CNATKFHQGT	LIVAMIPEHQ
hrv-24	LPDALKEMGI	FGENMFYHYFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPEHQ
ef173416-24	LPDALKEMGI	FGENMFYHYFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPEHQ
hrv-25	LPDALKDMGI	FGENMYHYL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIPESHQ
dq473508-28	LPDALKNMGI	FGENLFYHYFL	GRAGYTVHVQ	CNASKFHQGT	LIVAAIPEHQ
hrv-29	LPDALKDMGI	FGENMYHYL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIPESHQ
dq473512-30	LPDALRDMGI	FGENMFYHYL	GRSGYTVHVQ	CNATKFHQGT	LIVAMIPEHQ
hrv-30	LPDALRDMGI	FGENMFYHYL	GRSGYTVHVQ	CNATKFHQGT	LIVAMIPEHQ

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hrv-31	LPDALKDMGI	FGENMYHHYL	GRSGYTVHVQ	CNASKFHQGT	LLIMMIPeHQ
hrv-32	LPDALKDMGV	FGQNMYHHFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPeHQ
hrv-33	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPeHQ
hrv-34	LPDALKDMGI	FGENMYHHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPeHQ
dq473501-34	LPDALKDMGI	FGENMYHHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPeHQ
dq473505-36	LPDALKNMGI	FGENMFYHFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPeHQ
hrv-38	LPDALKEMGV	FGQNMYHHFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPeHQ
dq473495-38	LPDALKEMGV	FGQNMYHHFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPeHQ
ay751783-39	LPDALKDMGI	FGENMYHHFL	GRSGYTVHVQ	CNASKFHQGT	LLIAMVPeHQ
hrv-40	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLIVMIPeHQ
dq473491-41	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLIATIPeHQ
hrv-43	LPDALKDMGI	FGQNMYHHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPeHQ
dq473499-44	LPDALKDMGI	FGENMYHHYL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIPeHQ
hrv-45	LPDALKDMGV	FGENMFYHAL	GRSGYLIHVQ	CNASKFHSgt	LLVVAIPeHQ
dq473506-46	LPDALKSMGI	FGENMFYHHL	GRAGYTIHVQ	CNASKFHQGT	LIVVAIPeHQ
hrv-47	LPDALKDMGI	FGENMYHHYL	GRSGYTVHVQ	CNASKFHQGT	LLIMMIPeHQ
dq473496-49	LPDALREMGi	FGENMFYHFL	GRSGYTIHVQ	CNASKFHQGT	LIVALIPeHQ
hrv-49-f04	LPDALKEMGI	FGENMFYHFL	GRSGYTIHVQ	CNASKFHQGT	LIVALIPeHQ
hrv-50	LPDALKEMGI	FGENMYHHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPeHQ
hrv-51	LPDALKDMGI	FGENMFYHFL	GRTGYTIHVQ	CNASKFHQGT	LVVAAIPeHQ
dq473507-53	LPDALKNMGI	FGENLFYHFL	GRAGYTVHVQ	CNASKFHQGT	LIVAAIPeHQ
hrv-54	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMVPeHQ
hrv-54-f05	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLIAMVPeHQ
dq473511-55	LPDALKNMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPeHQ
hrv-56	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMVPeHQ
hrv-57	LPDALKNMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LVVAMIPeHQ
hrv-58	LPDALKGMGI	FGENMFYHFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPeHQ
dq473500-59	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMVPeHQ
hrv-60	LPDALKDMGV	FGQNMYHHFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPeHQ
hrv-61	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMIPeHQ
hrv-62	LPDALKDMGI	FGENMYHHYL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIPeHQ
hrv-63	LPDALKDMGV	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMVPeHQ
hrv-64	LPDALKDMGI	FGQNMYHHFL	GRAGYTIHVQ	CNASKFHQGT	LIVAAIPeHQ
ef173417-64	LPDALKDMGI	FGQNMYHHFL	GRAGYTIHVQ	CNASKFHQGT	LIVAAIPeHQ
hrv-65	LPDALKNMGI	FGENMFYHFL	GRAGYTVHVQ	CNASKFHQGT	LVIAAIPeHQ
hrv-66	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIPeHQ
hrv-67	LPDALKDMGV	FGQNMYHHFL	GRSGYTVHVQ	CNSSKFHQGT	LIVAMIPeHQ
hrv-68	LPDALKNMGI	FGENLFYHFL	GRAGYTVHVQ	CNASKFHQGT	LVVAAIPeHQ
hrv-71	LPDALKNMGI	FGENMFYHFL	GRAGYTVHVQ	CNASKFHQGT	LVVAAIPeHQ
dq473492-73	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMIPeHQ
dq473494-74	LPDALRDMGV	FGQNMYHHFL	GRNGYTVHVQ	CNSSKFHQGT	LIVAMIPeHQ
dq473510-75	LPDALKDMGI	FGQNMYHHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPeHQ
dq473502-76	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPeHQ
hrv-76	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIPeHQ
hrv-77	LPDALKDMGI	FGENMYHHYL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIPeHQ
hrv-78	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVVAIPeHQ
ef173418-78	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVVAIPeHQ
hrv-80	LPDALKSMGI	FGENMFYHHL	GRAGYTIHVQ	CNASKFHQGT	LIVVAIPeHQ
hrv-81	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVTMIPeHQ
hrv-81-f06	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVTMIPeHQ
hrv-81-f07	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVTMIPeHQ
hrv-82	LPDALKDMGV	FGQNMYHHFL	GRSGYTIHVQ	CNASKFHQGT	LIVAAIPeHQ
dq473509-82	LPDALKEMGV	FGQNMYHHFL	GRSGYTIHVQ	CNASKFHQGT	LIVAAIPeHQ
hrv-85	LPDALKDMGI	FGENMYHHFL	GRSGYTVHVQ	CNASRFHQGT	LLVVMIPeHQ
pico-85	LPDALKDMGI	FGENMYHHFL	GRSGYTVHVQ	CNASRFHQGT	LLVVMIPeHQ
dq473504-88	LPDALKSMGI	FGENMFYHFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPeHQ
a10937-89	LPDALKNMGI	FGENMFYHFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPeHQ
hrv-89	LPDALKNMGI	FGENMFYHFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPeHQ

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hrv-89-f08	LPDALKNMGI	FGENMFYHFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPEHQ
hrv-89-f09	LPDALKNMGI	FGENMFYHFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPEHQ
m16248-89	LPDALKNMGI	FGENMFYHFL	GRSGYTIHVQ	CNSSKFHQGL	LIVAAIPEHQ
hrv-90	LPDALKGMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LIVAMIEPHQ
hrv-94	LPDALKDMGI	FGQNMYHYHFL	GRSGYTIHVQ	CNASKFHQGT	LIVAAIPEHQ
ef173419-94	LPDALKDMGI	FGQNMYHYHFL	GRSGYTIHVQ	CNASKFHQGT	LIVAAIPEHQ
hrv-95	LPDALKDMGV	FGENMFYHSL	GRAGYLIHVQ	CNASKFHSGT	LLVVAIPEHQ
hrv-96	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIEPHQ
hrv-98	LPDALKDMGI	FGENMFYHFL	GRSGYTVHVQ	CNASKFHQGT	LLVAMVPEHQ
hrv-100	LPDALKDMGI	FGENMFYHYL	GRSGYTVHVQ	CNASKFHQGT	LLVVMIEPHQ
ef186077-qpm	LPDCLRDMGV	FGQNMYHHAM	GRSGYIIHTQ	CNATKFHSGC	LLVAVVPEHQ
ef077279-nat001	LPDCLKDMGI	FGQNMFHHAM	GRSGYIIHTQ	CNATKFHSGC	LLVAVVPEHQ
ny1078	LPDCLKNMGI	FGQNMYHYHAM	GRSGYIIHTQ	CNATKFHSGC	LLVAVVPEHQ
ef582385-c024	LPDCLKDMGI	FGQNLYHHAL	GRSGYIIHTQ	CNATKFNSGC	LIVAVVPEHQ
ef077280-nat045	IPDCLKDMGM	FGQNMYHHSM	GRSGMLIHVQ	CNATKFHSGC	LLVVVVPEHQ
ef582387-c026	LPDCLRDMGV	FGQNMYHHAM	GRSGYIIHTQ	CNATKFHSGC	LLVAVVPEHQ
ef582386-c025	IPDCLKDMGM	FGQNMYHYHAL	GRSGYIFHVQ	CNATKFHSGL	LLVAIVPEHQ
dq473485-03	LPDALKDMGV	FGQNMFYHSL	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
ef173422-03	LPDALKDMGV	FGQNMFYHSL	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
dq473490-04	LPDALKDMGI	FGQNMFHFSQ	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
hrv-05	LPDALKDMGI	FGQNMFHFSQ	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
dq473486-06	LPDALKDMGV	FGQNMFHFSL	GRSGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
l05355-14	LPDALKDMGV	FGQNMFHFSL	GRSGYTVHVQ	CNATKFHSGC	LLVVVIPEHQ
k02121-14	LPDALKDMGV	FGQNMFHFSL	GRSGYTVHVQ	CNATKFHSGC	LLVVVIPEHQ
ef173420-17	LPDALKDMGV	FGQNMFHHAL	GRTGYTIHVQ	CNATKFHSGC	LLVVVVPEHQ
hrv-26	LPDALKEMGI	FGQNMFHFAQ	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
hrv-27	LPDALKDMGI	FGQNMFYHSQ	GRTGYTIHVQ	CNATKFHSGT	LLVVIIEPHQ
ef173421-27	LPDALKDMGI	FGQNMFYHSQ	GRTGYTIHVQ	CNATKFHSGT	LLVVIIEPHQ
dq473487-35	LPDALKDMGV	FGQNMFYHTL	GRTGYTIHVQ	CNATKFHSGC	LLIVVIPEHQ
hrv-35	LPDALKDMGV	FGQNMFYHTL	GRTGYTIHVQ	CNATKFHSGC	LLXVVIPEHQ
ef173423-37	LPDALKDMGV	FGQNMFHFSL	GRSGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
hrv-42	LPDALKDMGI	FGQNMFHFSQ	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
dq473488-48	LPDALKDMGV	FGQNMFHFSL	GRTGYTIHVQ	CNATKFHSGC	LLVVVVPEHQ
hrv-52	LPDALKDMGV	FGQNMFHHAL	GRTGYTVHVQ	CNATKFHSGC	LLVVAIPEHQ
hrv-52-f10	LPDALKDMGV	FGQNMFHHAL	GRTGYTVHVQ	CNATKFHSGC	LLVVAIPEHQ
ef173424-52	LPDALKDMGV	FGQNMFHHAL	GRTGYTVHVQ	CNATKFHSGC	LLVVAIPEHQ
hrv-69	LPDALKEMGV	FGQNMFHHAL	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
dq473489-70	LPDALKDMGV	FGQNMFHHAL	GRTGYTIHVQ	CNATKFHSGC	LLVVVVPEHQ
hrv-72	LPDALKDMGV	FGQNMFHFSL	GRSGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
hrv-79	LPDALKDMGV	FGQNMFHFSL	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
hrv-83	LPDALKDMGV	FGQNMFHFSL	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
hrv-84	LPDALKDMGI	FGQNMFYHSQ	GRTGYTIHVQ	CNATKFHSGT	LLVVVIPEHQ
hrv-86	LPDALKDMGV	FGQNMFHFSL	GRSGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
hrv-91	LPDALKDMGV	FGQNMFHHAL	GRTGYTIHVQ	CNATKFHSGC	LLVVVVPEHQ
hrv-92	LPDALKDMGV	FGQNMFHFSL	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ
ef173425-93	LPDALKDMGI	FGQNMFHFSQ	GRTGYTIHVQ	CNATKFHSGT	LLVVIIEPHQ
hrv-97	LPDALKDMGI	FGQNMFYHSQ	GRTGYTIHVQ	CNATKFHSGT	LLVVIIEPHQ
hrv-99	LPDALKDMGI	FGQNMFYHSQ	GRTGYTIHVQ	CNATKFHSGC	LLVVVIPEHQ

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annotation		..PPPPPPPP	PPPPPPPPPP	PP.....	HHHHH
af499637-cva13	LAGDSNSKTN	YTSYVNANPG	EAGGKFVSTF	TPD.TGTSPK	REFQPVDFYLF
af546702-cva21	MACNTESKTS	YVSYINANPG	ERGGEFTNTY	NPSNTDASEG	RKFAALDYLL
v01149-pv1m	LAGDSNTTTM	HTSYQANANPG	EKGGTFTGTF	TPDNNQTSPA	RRFCPVDFYLL
d00239-01	LASAKNGSVT	.AGYNLTHPG	EAGRVVGQQ.	.RDANLRQPS	D....DSWLN
pico-01	LASAKHGSVT	.AGYKLTHPG	EAGRDVSQE.	.RDASLRQPS	D....DSWLN
hrv-01	LASAKHGSVT	.AGYKLTHPG	EAGRDVSQE.	.RDASLRQPS	D....DSWLN
x02316-02	IASALHGNVN	.VGYNYTHPG	ETGREVKAET	R.LNPDLQPT	E....EYWLN

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hrv-07	LASAVKGNVS	.VGKHTHPG	EQGREISSE.	RRTDDDRRPS	D....DSWLN
dq473503-07	LASAVKGNVS	.VGKHTHPG	EQGREISSE.	RRTDDDRRPS	D....DSWLN
hrv-08	LSYLGTHGNT	.VGYRHTHPG	ENGREIAEVA	NR..NERQPS	Y....DSWLN
pico-09	LAAAERGNVT	.AGYNFTHPG	EPGREVGKPN	R.QYTSKQPS	D....DNWLN
hrv-09	LAAAERGNVT	.AGYNFTHPG	EPGREVGKPN	R.QYTSKQPS	D....DNWLN
hrv-09-f01	LAAAERGNVT	.AGYNFTHPG	EPGREVGKPN	R.QYTSKQPS	D....DNWLN
hrv-09-f02	LAAAERGNVT	.AGYNFTHPG	EPGREVGKPN	R.QYTSKQPS	D....DNWLN
dq473498-10	LASAHTGNVT	.AGYNFTHPG	EKGRTVGD..	RRDHHDKQPS	D....DNWLN
hrv-10	LASAHTGNVT	.AGYNFTHPG	EKGRTVGD..	RRDHHDKQPS	D....DNWLN
ef173414-11	LASATTGNVT	.AGYKLTHPG	ERGRDVSLTD	R.QDITKQPS	D....DSWLN
ef173415-12	LAYIGTGNVT	.VGKHTHPG	ESGRIIANNA	..DNNTNRQPS	D....DNWLN
hrv-13	LATAAGGSVS	.AGYKYTHPG	EKGRDVGKIN	R.ERNDRQPS	D....DNWLN
hrv-13-f03	LATAAGGSVS	.AGYKYTHPG	EKGRDVGKTG	R.ERNDRQPS	D....DNWLN
dq473493-15	LASAEKGNVT	.AGYKLTHPG	EAGRDVSITN	R.DHVSQRPS	D....ENWLN
l24917-16	LATVNKGNVN	.AGYKYTHPG	EAGREVGTO.	..VENEKQPS	D....DNWLN
hrv-18	LASAIKGNVT	.AGYKYTHPG	ERGRVINVAS	R.GDNEKQPS	D....DNWLN
hrv-19	LASATKGNVT	.AGYNYTHPG	EMGRDVGKIG	R.ENNGKQPS	D....DNWLN
hrv-20	LAYIDKGSVT	.VGYNHTHPG	ETGRVIGGFT	..NNNSRQPS	D....ENWLN
hrv-21	LASASTGNVT	.AGYNLTHPG	EQGRDVGI.T	RVEDLLKQPS	D....DSWLN
hrv-22	LASAGRGNVA	.AGYNYTHPG	EIGRDVGKEN	R.EQANNQPS	D....DNWLN
dq473497-23	IASLQHGDVN	.VGYNFTHPG	EEGREVKNTT	R.EHLQQQPT	E....EHWLN
hrv-24	LASATTGNVR	.AGYNLTHPG	ESGRNVDPIT	R.DNPTKQPS	D....DSWLN
ef173416-24	LASATTGNVR	.AGYNLTHPG	ESGRNVDPIT	R.DNPTKQPS	D....DSWLN
hrv-25	LANADSTKVG	.AGYNYTHPG	ERGRQVGD.A	RDPITAVHPS	D....DNWLN
dq473508-28	LAFISKGNVT	.VGYNYTHPG	EQGREIGTFG	PSSTLDRQPS	D....ENWLN
hrv-29	LASVGTDKVG	.PGYAFTHPG	EAGRQIGNVS	..EPTSKHPS	D....DNWLN
dq473512-30	IASLQHGNVN	.VGKFTHPG	EEGREVRSN.	RTEYLGQQPT	E....EYWLN
hrv-30	IASLQHGNVN	.VGKFTHPG	EEGREVRSN.	RTEYLGQQPT	E....EYWLN
hrv-31	LANENRTRAD	.AGYNFTHPG	ELGREVGN..	RRNPHDNLPS	D....DNWLN
hrv-32	LAAAERGNVT	.AGYNFTHPG	EIGRDVGKTE	R.QHTSKQPS	D....DNWLN
hrv-33	LASATTGNAT	.AGYNLTHPG	EAGRDVSPKT	R.ENIDKQPS	D....DAWLN
hrv-34	LASATYGNVA	.AGYNYTHPG	ERGRVINVT	R.EQNDKQPS	D....DNWLN
dq473501-34	LASATYGNVA	.AGYNYTHPG	ERGRVINVT	R.EQNDKQPS	D....DNWLN
dq473505-36	LASATSGNVS	.VGYNHTHPG	EQGREVVPS.	RNSEDNKRPS	D....DSWLN
hrv-38	LAAAEKGNVT	.AGYNLTHPG	ETGRDVGITV	R.EHPNKQPS	D....DNWLN
dq473495-38	LAAAEKGNVT	.AGYNLTHPG	ETGRDVGITV	R.EHPNKQPS	D....DNWLN
ay751783-39	LASANYGNVT	.AGYNYTHPG	EAGRDVGQQ.	.RTNNEKQPS	D....DNWLN
hrv-40	LASATTGNVT	.AGYNYTHPG	ELGRTVGQR.	RSEVNIKQPS	D....DNWLN
dq473491-41	LATAVGGSVS	.AGYNYTHPG	EKGRDVGKM.	DRERNDRQPS	D....DSWLN
hrv-43	LASATHGNVT	.AGYNFTNPG	EAGRNVGQI.	RNEXLTKQPS	D....DNWLN
dq473499-44	LASVGTEKVG	.PGYNFTHPG	EAGRQIGNVS	DR..TSKHPS	D....DNWLN
hrv-45	LAYIGTGNVT	.VGKHTHPG	ETGRVIATTT	DK..QTRQPS	F....DSWLN
dq473506-46	LAYIGGGNVT	.VGYNHTHPG	ESGRRIGGF.	DGTERNRQPS	D....ENWLN
hrv-47	LANENSTRAD	.AGYNYTHPG	ERGREGVGE.	RISHANL.PS	D....DNWLN
dq473496-49	IASALHGDVN	.VGYNFTHPG	ETGREVKSD.	RSMNLNLQPT	E....EYWLN
hrv-49-f04	IASALHGDVN	.VGKHYTHPG	EAGREVKSD.	RNINLNVQPT	E....EYWLN
hrv-50	LASATHGNVT	.AGYNYTHPG	ERGRTINVVN	R.DQNDKQPS	D....DNWLN
hrv-51	LAFIKGNVS	.VGYRHTHPG	ENGRTLNGS.	RVDGNSKQPT	E....ESWLN
dq473507-53	LAFIKSGNVT	.VGKHYTHPG	EQGREIGTFG	ENSVLDRQPS	D....ENWLN
hrv-54	LASASRGNVT	.AGYNYTHPG	ELGRVVGQ.A	RVQTNDNQPS	D....DNWLN
hrv-54-f05	LASASRGNVT	.AGYNYTHPG	ELGRVVGQP.	RTQINDHQPS	D....DNWLN
dq473511-55	LASATSGNVT	.AGYNLTHPG	EQGRDVSVTG	R.QNATKQPS	D....DNWLN
hrv-56	LASANKGNVT	.AGYNYTHPG	EAGRDVGQ.T	RV.NNDRQPS	D....DNWLN
hrv-57	LASATYGNVA	.AGYRLTHPG	EAGRDVSL.S	RSENTEKQPS	D....DNWLN
hrv-58	LASATSGNVW	.VGYNHTHPG	EQGREVV.PT	RSSTDNKRPS	D....DSWLN
dq473500-59	LASANIGNVT	.VGYNYTHPG	ESGRDVGQD.	.RRSNDKQPS	D....DNWLN
hrv-60	LAAAEKGNVT	.AGYNLTHPG	EKGRTIGIPD	R.LHPSKQPS	D....DNWLN
hrv-61	LATAVGGSVS	.AGYNYTHPG	EKGRDVGKLN	R.ESNPRQPS	D....DNWLN

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hrv-62	LANANSAGAG	.AGYNYTHPG	ERGRQVGD	RENITAAHPS	D....DNWLN
hrv-63	LASASAGNVT	.AGYNYTHPG	EAGRDVGQ.N	R.DANYKQPS	D....DNWLN
hrv-64	LASAHKGNT	.TGYNYTHPG	ESGRDVSVEV	R.DTANYQPS	D....DAWLN
ef173417-64	LASAHKGNT	.TGYNYTHPG	ESGRDVSVEV	R.DTANYQPS	D....DAWLN
hrv-65	LAYIGSGNVS	.VGYKQTHPG	ENGRTIDD.T	RVNTMSNQPT	D....ESWLN
hrv-66	LAAASTGNVA	.AGYNFTHPG	EKGREVGSP.	.RETHPNHPS	D....DSWLN
hrv-67	LAAAERGNVT	.AGYNFTHPG	ETGRDVGKTE	R.VYQNKQPS	D....DNWLN
hrv-68	LAYIGKGNVT	.VGYNHTHPG	EKGRRIGGF.	.IDNESRQPS	D....ENWLN
hrv-71	LAYIGSGNVS	.VGYRHTHPG	EQGRVIGT..	RENRTNQPT	D....ESWLN
dq473492-73	LAAAKGGTVT	.AGYKYTHPG	EAGRDVGKTD	RK.QNNRQPS	D....DNWLN
dq473494-74	LASAERGNVT	.AGYKLTHPG	EAGRDVSITT	R.EHTSRQPS	D....DNWLN
dq473510-75	LASARHGNT	.AGYNFTHPG	ENGRNVGQL.	RTEYLDKQPS	D....DNWLN
dq473502-76	LASATTGNAT	.AGYNLTHPG	EGGRDVSLSN	R.ADLSKQPS	D....DAWLN
hrv-76	LASATTGNAT	.AGYNLTHPG	EGGRDVSLSN	R.ADLSKQPS	D....DAWLN
hrv-77	LASASSGNVT	.AGYNFTHPG	EQGREVG.ST	R.ESHLKHPS	D....DNWLN
hrv-78	LAYIGTGNVT	.VGYKHTHPG	ESGRIIATNS	.VNNNTRQPS	D....DNWLN
ef173418-78	LAYIGTGNVT	.VGYKHTHPG	ESGRIIATNS	.VNNNTRQPS	D....DNWLN
hrv-80	LAYVGGGNVT	.VGYNHTHPG	ETGRRIGGYE	NV.PRNRQPS	D....ENWLN
hrv-81	LATVNKANVT	.AGYKYTHPG	ESGRVVGTA	...DDTKQPS	D....DNWLN
hrv-81-f06	LATVNKANVT	.AGYKYTHPG	ESGRVVGTA	...DDTRQPS	D....DNWLN
hrv-81-f07	LATVNKANVT	.AGYKYTHPG	ESGRVVGTA	...DDTRQPS	D....DNWLN
hrv-82	LASAERGNVN	.TGYNYTHPG	ESGRDVG.KD	R.ESTRYQPS	D....DNWLN
dq473509-82	LASAEKGNVN	.TGYNYTHPG	ERGRDVGQ.E	R.ESTSYQPS	D....DNWLN
hrv-85	LASATKGNVT	.AGYNYTHPG	ELGRIVGQ.T	RAEINNKKPS	D....DNWLN
pico-85	LASATKGNVT	.AGYNYTHPG	ELGRIVGQ.T	RAEINNKKPS	D....DNWLN
dq473504-88	LASALTGNVS	.VGYKHTHPG	EQGREISS.N	RSSDNRRPS	D....DSWLN
a10937-89	LASATSGNVS	.VGYNHTHPG	EQGREVV.PS	RTSSDNKRPS	D....DSWLN
hrv-89	LASATSGNVS	.VGYNHTHPG	EQGREVV.PS	RTSSDNKRPS	D....DSWLN
hrv-89-f08	LASATSGNVS	.VGYNHTHPG	EQGREVV.PS	RTSSDNKRPS	D....DSWLN
hrv-89-f09	LASATSGNVS	.VGYNHTHPG	EQGREVV.PS	RSSDNKRPS	D....DSWLN
m16248-89	LASATSGNVS	.VGYNHTHPG	EQGREVV.PS	RTSSDNKRPS	D....DSWLN
hrv-90	LASALAGNVT	.AGYNLTHPG	EGGRTVDQTN	R.ENQSKQPS	D....DSWLN
hrv-94	LASAHKGNT	.TGYNYTHPG	ETGRDVGTEV	R.DTANYQPS	D....DAWLN
ef173419-94	LASAHKGNT	.TGYNYTHPG	ETGRDVGTEV	R.DTANYQPS	D....DAWLN
hrv-95	LSYLGNT	.VGYRHTHPG	ENGREIAEVA	NRN..ERQPS	Y....DSWLN
hrv-96	LATAAGGSVS	.AGYNYTHPG	EKGRDVGKEG	R.EANVRQPS	D....DNWLN
hrv-98	LASASRGNT	.AGYNYTHPG	ELGRVVGQ.A	RTQTSGNQPS	D....DNWLN
hrv-100	LASAHTGNVT	.AGYNFTHPG	EKGRTVGDER	KH..REKQPS	D....DNWLN
ef186077-qpm	LAYIGGDNT	.VKYKHTHPG	ELGHKIGSN.	.SERGDNQPD	E....NPFFN
ef077279-nat001	LAYIGAD.AR	.VSYEHTHPG	EKGHVIGSN.	.SDRNNHQPD	E....SAFFN
ny1078	LAYIGVD.AQ	.VSYKHTHPG	ERGHEIGRN.	.TNRDDNQPD	E....NPFFN
ef582385-c024	LAYIGEANT	.VGYDHTHPG	EGGHVIGSN.	.VRRDNKQPD	E....DPFFN
ef077280-nat045	LAYIGAGGVN	.VKYEHTHPG	ERGHTLQAS.	.DVRSNHNPD	E....DPFYL
ef582387-c026	LAYIGGTNAQ	.VKYKHTHPG	EQGHRIGSN.	.SERNENQPD	E....NPFFN
ef582386-c025	LAYIGGTNAN	.VGYNHTHPG	EGGHEIGKN.	.TERNDKQPD	E....DPLFN
dq473485-03	LASHEGGTVS	.VKYKYTHPG	DRGIDLDTVE	VA....GGPT	S....DAIYN
ef173422-03	LASHEGGTVS	.VKYKYTHPG	DRGIDLDTVE	VA....GGPT	S....DAIYN
dq473490-04	LASIQGGSVS	.VYYEKTHPG	EKGIDLNESD	GDGPM	L....DPLYM
hrv-05	LASAEGGNVS	.VLYDKTHPG	EKGIDLSEAD	STGPM	K....DPLYM
dq473486-06	LASHKGGNVS	.VKYKYTHPG	ESGIDLSTQL	DE....DGPV	K....DPVYS
l05355-14	LASHEGGNVS	.VKYTFTHPG	ERGIDLSSAN	EV....GGPV	K....DVIYN
k02121-14	LASHEGGNVS	.VKYTFTHPG	ERGIDLSSAN	EV....GGPV	K....DVIYN
ef173420-17	LASHTEGNVS	.VKYKYTHPG	EQGIELDSAA	EE....GGAS	H....DPVYS
hrv-26	LASIKGANVS	.VLYDKTHPG	ESGIDLNTTD	ED....GPM	K....DPLYM
hrv-27	LASAEGGNVS	.VFYDQTHPG	ERGIDLGTVI	E....KGPM	T....DPIYN
ef173421-27	LASAEGGNVS	.VFYDQTHPG	ERGIDLGTVI	E....KGPM	T....DPIYN
dq473487-35	LASHDGGTVS	.VKYKFTHPG	DQGIDLSTAE	ET....NGPV	K....NPVYN
hrv-35	LASHDGGTVS	.VKYKFTHPG	DQGIDLSTAE	ET....NGPV	K....NPVYN

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ef173423-37	LASHEGSNVS	.VKYKFTHPG	ENGIDLELPP	EK....DGPV	K....NPVYG
hrv-42	LASIEGGNVS	.VLYDKTHPG	EKGIDLND.E	DP....KGPM	K....DPLYM
dq473488-48	LASRTEGNVS	.VNYKYTHPG	ERGIDLDEAE	KE....GGAT	H....NPVYS
hrv-52	LASHTQGNVS	.VKYKYTHPG	EQGINLNDIP	EE....GGAS	H....DPVYS
hrv-52-f10	LASHTQGNVS	.VKYKYTHPG	ESGINLDDTP	EA....GGAS	H....DPVYS
ef173424-52	LASHTQGNVS	.VKYKYTHPG	EQGINLNDIP	EE....GGAS	H....DPVYS
hrv-69	LASHTEGNVS	.VKYKYTHPG	ETGINLSDAV	AT....GGAS	H....DPVYS
dq473489-70	LASHTQGNVS	.VKYKYTHPG	EQGIDLDSVA	ET....GGAS	H....DPVYS
hrv-72	LASHEGGNVS	.VKYKLTHPG	EGGIDLSTNI	EA....DGPV	K....DPVYN
hrv-79	LASHDGGTVS	.VKYEFTHPG	DQGIDLSTAE	VQ....FGPA	K....DAIYS
hrv-83	LASHDGGTVS	.VKYKFTHPG	EQGIDLGTSG	ER....TGPA	K....DAVYN
hrv-84	LASAKGGNVS	.VYYDKTHPG	ENGIDLSVA.	DE....LGPK	T....DPVYN
hrv-86	LASHQGGNVS	.VKYTLTHPG	EAGIDLSKAE	VD....KGPS	N....NPVYS
hrv-91	LASHTEGNVS	.VKYKYTHPG	EQGIELSNLA	EE....GGAS	H....DPVYS
hrv-92	LASHDGGSVS	.VKYKYTHPG	DQGIDLGTTE	EN....FGPA	K....DAVYS
ef173425-93	LASANGGNVS	.VLYDKTHPG	ENGIDLGS.E	VK....DGPM	T....DPIYN
hrv-97	LASAECCNVS	.VLYDKTHPG	ENGIDLNTN.	DA....KGPK	T....DPIYN
hrv-99	LASIEGANVS	.VLYDKTHPG	EQGIDLSKT.	DP....KGPV	R....DPLYM
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annotation	HH..HHBHHH	..BBBFBBB.	..BBBBBGBB.		BBBBBH
af499637-cva13	GCGVMAGNAF	VFPHQIINLR	TNNCATLVLP	YVNSLAIDCM	AKHNNWGIVI
af546702-cva21	GSGVLGNAF	VYPHQIINLR	TNNSATIVVP	YVNSLVIDCM	AKHNNWGIVI
v01149-pv1m	GNGTLLGNAF	VFPHQIINLR	TNNCATLVLP	YVNSLSIDSM	VKHNNWGIAI
d00239-01	FDGTLLGNLL	IFPHQFINLR	SNNSATLIVP	YVNAVPMDSM	LRHNNWSLVI
pico-01	FDGTLLGNLL	IFPHQFINLR	SNNSATLIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-01	FDGTLLGNLL	IFPHQFINLR	SNNSATLIVP	YVNAVPMDSM	LRHNNWSLVI
x02316-02	FDGTLLGNIT	IFPHQFINLR	SNNSATIIAP	YVNAVPMDSM	RSHNNWSLVI
hrv-07	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YINAVPMDSM	LRHNNWSLVI
dq473503-07	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YINAVPMDSM	LRHNNWSLVI
hrv-08	CNGTLLGNAL	IFPHQFINLR	TNNAATLILP	YVNATPMDFM	LRHNNWSLLI
pico-09	FDGTLLGNIT	IYPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-09	FDGTLLGNIT	IYPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-09-f01	FDGTLLGNIT	IYPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-09-f02	FDGTLLGNIT	IYPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473498-10	FDGTSLGNAL	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-10	FDGTSLGNAL	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
ef173414-11	FDGTLLGNIT	IYPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
ef173415-12	CDGTLMGNLP	IFPHQFINLR	TNNSATLILP	YMNCVSMDSM	LRHNNWSLLI
hrv-13	FDGTLLGNLT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-13-f03	FDGTLLGNLT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473493-15	FDGTLLGNIT	IFPHQFINLR	SNNSATLIVP	YVNAVPMDSM	LRHNNWSLVI
l24917-16	FDGTLLGNLL	IFPHQFINLR	SNNSATLIVP	YVNAVPMDSM	VRHNNWSLVI
hrv-18	FDGTLLGNIT	IYPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-19	FDGTLLGNIT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-20	CDGTLLGNIT	IYPHQYINLR	SNNSATLILP	YVNAVPMDSM	VRHNNWSIVI
hrv-21	FDGTLLGNIT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	PRHNNWSLVI
hrv-22	FDGTLLGNIT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
dq473497-23	FDGTLLGNIT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	RSHNNWSLVI
hrv-24	FDGTLLGNIT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
ef173416-24	FDGTLLGNIT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-25	FDGTMLGNVL	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473508-28	CDGTLLGNIT	VYPHQFINLR	SNNSATLILP	YVNAVPMDSM	VRHNNWSIVI
hrv-29	FDGTLLGNVL	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473512-30	FDGTLLGNIT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	RSHNNWSLVI
hrv-30	FDGTLLGNIT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	RSHNNWSLVI
hrv-31	FDGTLLGNAL	IYPHQFINLR	SNNSATLIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-32	FDGTLLGNIT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI

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hrv-33	FDGTLLGNIT	VYPHQLINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-34	FDGTLLGNIT	IYPHQLINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473501-34	FDGTLLGNIT	IYPHQLINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473505-36	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-38	FDGTLLGNIT	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473495-38	FDGTLLGNIT	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
ay751783-39	FDGTLLGNLL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLLI
hrv-40	FDGTFLGNLL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLLI
dq473491-41	FDGTLLGNLT	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-43	FDGTLLGNIT	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473499-44	FDGTLLGNVL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-45	CNGTLLGNAL	IFPHQFINLR	TNNAATLILP	YVNATPMDSM	LRHNNWSLLI
dq473506-46	CNGTLLGNLT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-47	FDGTLLGNAL	IFPHQFINLR	SNNSATLIVP	YVNAVPMDSM	LRHNNWSLVI
dq473496-49	FDGTLLGNIT	IFPHQFINLR	SNNSATIIAP	YVNAVPMDSM	RSHNNWSLVI
hrv-49-f04	FDGTLLGNIT	IFPHQFINLR	SNNSATIIAP	YVNAVPMDSM	RSHNNWSLVI
hrv-50	FDGTLLGNIT	IYPHQLINLR	SNNSATIIIVP	YVNAVPMDSM	PRHNNWSLVI
hrv-51	CDGTLLGNIT	IYPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
dq473507-53	CDGTLLGNIT	VYPHQYINLR	SNNSATLILP	YVNAVPMDSM	VRHNNWSIVI
hrv-54	FDGTFLGNLL	IFPHQFINLR	TNNSATIIIVP	YVNAVPMDSM	LRHNNWSLLI
hrv-54-f05	FDGTFLGNLL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLLI
dq473511-55	FDGTLLGNIT	IYPHQLINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-56	FDGTFMGNLL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLLI
hrv-57	FDGTLLGNIT	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-58	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
dq473500-59	FDGTLLGNLL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLLI
hrv-60	FDGTLLGNIT	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LSHNNWSLVI
hrv-61	FDGTLLGNLT	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-62	FDGTMLGNVL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-63	FDGTLLGNLL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLLI
hrv-64	FDGTLLGNIT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
ef173417-64	FDGTLLGNIT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-65	CDGTLLGNIT	IYPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSIVI
hrv-66	FDGTLLGNAL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-67	FDGTLLGNIT	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-68	CDGTLLGNIT	IYPHQYINLR	SNNSATLILP	YVNAVPMDSM	VRHNNWSIVI
hrv-71	CDGTLLGNIT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	IRHNNWSIVI
dq473492-73	FDGTLLGNST	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473494-74	FDGTLLGNIT	IFPHQFINLR	SNNSATLIVP	YVNAVPMDSM	LRHNNWSLVI
dq473510-75	FDGTLLGNIT	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473502-76	FDGTLLGNIT	VYPHQLINLR	TNNSATIIIVP	YVNAVPMDSM	VRHNNWSLVI
hrv-76	FDGTLLGNIT	VYPHQLINLR	TNNSATIIIVP	YVNAVPMDSM	VRHNNWSLVI
hrv-77	FDGTLLGNAL	IFPHQFINLR	TNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-78	CNGTLMGNLP	IFPHQFINLR	SNNSATLILP	YMNAPMDSM	LRHNNWSIVI
ef173418-78	CNGTLMGNLP	IFPHQFINLR	SNNSATLILP	YMNAPMDSM	LRHNNWSIVI
hrv-80	CNGTLLGNLT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-81	FDGTLLGNLL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	VRHNNWSLVI
hrv-81-f06	FDGTLLGNLL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	VRHNNWSLVI
hrv-81-f07	FDGTLLGNLL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	VRHNNWSLVI
hrv-82	FDGTLLGNIT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
dq473509-82	FDGTLLGNIT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-85	FDGTFLGNVL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
pico-85	FDGTFLGNVL	IFPHQFINLR	SNNSATIIIVP	YVNAVPMDSM	LRHNNWSLVI
dq473504-88	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
a10937-89	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-89	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-89-f08	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-89-f09	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YVNAVPMDSM	LRHNNWSLVI

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m16248-89	FDGTLLGNLP	IYPHQYINLR	TNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-90	FDGTLLGNIT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-94	FDGTLLGNIT	IFPHQFINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
ef173419-94	FDGTLLGNIT	IFPHQYINLR	SNNSATLILP	YVNAVPMDSM	LRHNNWSLVI
hrv-95	CNGTLLGNAL	IFPHQFINLR	TNNAATLILP	YVNATPMDSM	LRHNNWSLLI
hrv-96	FDGTLLGNLT	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
hrv-98	FDGTFLGNLL	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLLI
hrv-100	FDGTLLGNAL	IFPHQFINLR	SNNSATIIVP	YVNAVPMDSM	LRHNNWSLVI
ef186077-qpm	CNGTLLGNLT	IFPHQLINLR	TNNSSTIVVP	YINCTPMDSM	LRHNNVSLVI
ef077279-nat001	CNGTLLGNLT	IFPHQLINLR	TNNSSTIVVP	YINCTPMDSM	LRHNNVSLVI
ny1078	CNGTLLGNLT	IFPHQLINLR	TNNSSTIVVP	YINCTPMDSM	LRHNNVSLVI
ef582385-c024	CNGTLLGNIT	IFPHQLINLR	TNNSSTIVVP	YINCVPMDSM	LRHNNLSLVI
ef077280-nat045	CNGTLLGNAL	IYPHQMINLR	TNNSATIIVP	YINCVPMDSM	LRHNNVSLLI
ef582387-c026	CNGTLLGNLT	IFPHQLINLR	TNNSSTIVVP	YINCTPMDSM	LRHNNVSLVI
ef582386-c025	CNGTLLGNLT	IFPHQLINLR	TNNSATIIVP	YINCVPMDSM	LRHNNISLVI
dq473485-03	MDGTLLGNLL	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNVSLMV
ef173422-03	MDGTLLGNLL	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNVSLMV
dq473490-04	MDGTLIGNSL	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNLSLMV
hrv-05	MDGTLIGNSL	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNLSLMV
dq473486-06	MNGTLLGNLL	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNVSLLV
l05355-14	MNGTLLGNLL	IFPHQFINLR	TNNTATIVIP	YINSVPIDSM	TRHNNVSLMV
k02121-14	MNGTLLGNLL	IFPHQFINLR	TNNTATIVIP	YINSVPIDSM	TRHNNVSLMV
ef173420-17	MNGTLVGNLL	IFPHQFINLR	TNNTATIIVP	YINSVPIDSM	TRHNNASLLV
hrv-26	MNGTLIGNSL	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNLSLMV
hrv-27	MDGTLLGNVL	IFPHQFINLR	TNNTATIVTP	YINSVPIDSM	TRHNNLSLLV
ef173421-27	MDGTLLGNVL	IFPHQFINLR	TNNTATIVTP	YINSVPIDSM	TRHNNLSLLV
dq473487-35	MDGTLLGNLL	IFPHQFINLR	TNNTATIIVP	YMNSVPIDSM	TRHNNVSLMV
hrv-35	MDGTLLGNLL	IFPHQFINLR	TNNTATIIVP	YMNSVPIDSM	TRHNNVSLMV
ef173423-37	MNGTLLGNLL	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNVSLMV
hrv-42	MDGTLIGNSL	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNLSLLV
dq473488-48	MNGTLVGNLL	IFPHQFINLR	TNNTATLVIP	YINSVPIDSM	TRHNNVSLLV
hrv-52	MNGTLVGNLL	IFPHQFINLR	TNNTATLILP	YINSVPIDSM	TRHNNISLLV
hrv-52-f10	MNGTLVGNLL	IFPHQFINLR	TNNTATLILP	YINSVPIDSM	TRHNNISLLV
ef173424-52	MNGTLVGNLL	IFPHQFINLR	TNNTATLILP	YINSVPIDSM	TRHNNISLLV
hrv-69	MNGTLVGNLL	IFPHQFINLR	TNNTATLIVP	YINSVPIDSM	TRHNNVSLLV
dq473489-70	MNGTLIGNLL	IFPHQFINLR	TNNTATIIVP	YINSVPIDSM	TRHNNVSLLV
hrv-72	MNGTLLGNLL	IFPHQFINLR	TNNTATLVVP	YINSVPIDSM	TRHNNVSLMI
hrv-79	MDGTLLGNLL	IFPHQFINLR	TNNTATIIVP	YMNSVPIDSM	TRHNNISLMV
hrv-83	MDGTLIGNLT	IFPHQFINLR	TNNTATIIVP	YINSVPIDSM	TRHNNISLMV
hrv-84	MDGTLLGNAL	IFPHQFINLR	TNNTATLVMP	YINSVPIDSM	TRHNNLSLLV
hrv-86	MNGTLLGNLL	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNVSLLI
hrv-91	MNGTLIGNLL	IFPHQFINLR	TNNTATIIVP	YINSVPIDSM	TRHNNLSLLV
hrv-92	MDGTLLGNLT	IFPHQFINLR	TNNTATIVVP	YINSVPIDSM	TRHNNVSLMV
ef173425-93	MDGTLLGNVL	IFPHQFINLR	TNNTATIVTP	YINSAPMDSM	TRHNNLSLLV
hrv-97	MDGTLLGNVL	IFPHQFINLR	TNNTATIVTP	YINSVPIDSM	TRHNNLSLLV
hrv-99	MNGTLIGNSL	IFPHQFINLR	TNNTATIVIP	YINSVPIDSM	TRHNNLSLMV

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annotation	BBBBBBBBB..	BBBB	BBBIBBBBBB	BBB.....	QG....
af499637-cva13	LPLSKLDYNP	DAST.KLPIT	VTIAPMCCEF	NGLRNLTIP.	..ATQGLPVM
af546702-cva21	LPLAPLAFAA	TSSP.QVPIT	VTIAPMCTEF	NGLRNITVP.	..VHQGLPTM
v01149-pv1m	LPLAPLNFAS	ESSP.EIPIT	LTIAPMCCEF	NGLRNITLP.	..RLQGLPVM
d00239-01	IPISPLRSET	TSSN.IRPIT	VSISPMCAEF	SGARAK....	.NVRQGLPVY
pico-01	IPISPLRSET	TSSN.IVPIT	VSISPMCAKF	SGARAK....	.NIKQGLPVY
hrv-01	IPISPLRSET	TSSN.IVPIT	VSISPMCAEF	SGARAK....	.NIKQGLPVY
x02316-02	IPICPLE.TS	SAIN.TIPIT	ISISPMCAEF	SGARAK....	...RQGLPVF
hrv-07	IPICPLQVES	SGTP.TVPIT	VSISPMFSEF	SGPRNKVVF.	...TQGLPVM
dq473503-07	IPICPLQVES	SGIP.TVPIT	VSISPMFSEF	SGPRNKVVF.	...TQGLPVM

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hrv-08	VPISQLR...	GDTN.SIPIT	ISISPMFAEF	SGARNR....	SARIEGLPVM
pico-09	IPICPLQSSG	TESS.TIPIT	ISISPMFAEF	SGARAK....	...SQGLPVL
hrv-09	IPICPLQSSG	TESS.TXPIT	ISISPMFAEF	SGARAK....	...SQGLPVL
hrv-09-f01	IPICPLQSSG	TESS.TIPIT	ISISPMFAEF	SGARAK....	...SQGLPVL
hrv-09-f02	IPICPLQSSG	TESS.TIPIT	ISISPMFAEF	SGARAK....	...SQGLPVL
dq473498-10	IPISPLKSDP	SASA.LVPIT	ISISPMFAEF	SGARAK...T	AAANQGLPVY
hrv-10	IPISPLKSDP	SASA.LVPIT	ISISPMFAEF	SGARAK...T	AAANQGLPVY
ef173414-11	IPICPLESDL	..NT.PVPIT	ISISPMCAEF	SGARAR....	...NQGLPVL
ef173415-12	IPVCPLQVDA	QATR.FVPIT	ISISPMFAEF	SGARN....	ATIPQGLPVM
hrv-13	IPICELKCNN	.TAV.TVPIT	ISISPMCAEF	SGARAR....	.NVTQGLPTL
hrv-13-f03	IPICELKCNN	.TAV.TVPIT	ISISPMCAEF	SGARAR....	.NVTQGLPTL
dq473493-15	IPICQLEVVG	GVS.N.TVPIT	ISISPMFAEF	SGARAR....	...SQGLPVM
l24917-16	IPVCQLQSNN	.ISN.IVPIT	VSISPMCAEF	SGARAK....	.TVVQGLPVY
hrv-18	IPICQLE...	GDPP.TIPIT	ISISPMCAEF	SGVRAR....	...SQGLPAM
hrv-19	IPICPLESQ.	GTEG.VVPIT	VSISPMFAEF	SGARAR....	...SQGLPVM
hrv-20	IPISKIQFEN	GATP.YVPIT	LSISPMCFEF	SGARN....	.NTTQGLPVM
hrv-21	IPICPLESD.	GQTP..VPIT	ISISPMCAEF	SGARAK....	...SQGLPVM
hrv-22	IPICPLEAS.	GADV.TVPIT	ISISPMFAEF	SGARAR....	...SQGLPVL
dq473497-23	IPICPLETMS	.TIT.TVPIT	ISISPMCAEF	SGARAR....	...SQGLPVL
hrv-24	IPICPLENST	EVVN.AVPIT	ISISPMCAEF	SGARAR....	...SQGLPVM
ef173416-24	IPICPLENST	EVVN.AVPIT	ISISPMCAEF	SGARAR....	...SQGLPVM
hrv-25	IPVSKLQADN	.TSV.VVPIT	ISISPMFAEF	SGARAR..PT	RAASQGLPTF
dq473508-28	IPISKLETQ.	GGTS.IVPIT	ISISPMFSEF	SGARN....	.NIPQGLPVM
hrv-29	IPISELQAEN	ATNV.TVPIT	VSISPMFAEF	SGARAR..PA	RATTQGLPIY
dq473512-30	IPICPLETMS	.TIT.TVPIT	ISISPMCAEF	SGARAK....	...SQGLPVL
hrv-30	IPICPLETMS	.TIT.TVPIT	ISISPMCAEF	SGARAK....	...SQGLPVL
hrv-31	IPICELLVDS	TVNA.IVPIT	ISISPMFAEF	SGARAK...P	EAASQGLPIY
hrv-32	IPICPLQSEG	TVST.TIPIT	ISISPMFAEF	SGARAK....	...SQGLPVL
hrv-33	IPICPLESVP	...ASTVPIT	ISISPMCAEF	SGARAA....	.ARNQGLPVF
hrv-34	IPICQLE...	GTPG.TVPIT	ISISPMCAEF	SGARAK....	...NQGLPVM
dq473501-34	IPICQLE...	GTPG.TVPIT	ISISPMCAEF	SGARAK....	...NQGLPVM
dq473505-36	IPICPLQVQT	GGTN.SIPIT	VSISPMFSEF	SGPRNKVVF.	.GATEGLPVM
hrv-38	IPICPLEVSS	PGSN.SIPIT	VSISPMFAEF	SGARAR....	...SQGLPTM
dq473495-38	IPICPLEVSS	PGSN.SIPIT	VSISPMFAEF	SGARAR....	...SQGLPTM
ay751783-39	IPVSPLEADT	SATA.IVPIT	VSISPMFSEF	SGARAR...P	AAATQGLPVY
hrv-40	IPISPLKSDM	SATS.KVPIT	ISISPMCAEF	SGARAR...P	SATTQGLPVY
dq473491-41	IPICELKCDT	.TAA.TVPIT	ISISPMCAEF	SGARAR....	.NVTQGLPTL
hrv-43	IPICELQVEG	GVPR.TVPIT	ISISPMYAEF	SGARAK....	...SQGIPTM
dq473499-44	IPISELQTEN	ATNL.TVPIT	VSISPMFAEF	SGARAR..PA	RAAAQGLPIY
hrv-45	VPVSELRGDT	SIPIT	VSISPMFAEF	SGARNR....	SARVEGLPVM
dq473506-46	IPVCPLEVAQ	GSEQ.YVPIT	ISISPMCFEF	SGARN....	AARTQGLPVF
hrv-47	IPICELLADS	KASA.VVPIT	ISISPMFAEF	SGARAK...P	VAAPQGLPIY
dq473496-49	IPICPLETSS	.TVN.TIPIT	ISISPMCAEF	SGARAK....	...SQGLPVF
hrv-49-f04	IPICPLETSS	.TVN.TIPIT	ISISPMCAEF	SGARAK....	...NQGLPVF
hrv-50	IPICPLE...	GTPT.TVPIT	ISISPMCAEF	SGARAK....	...SQGLPVM
hrv-51	IPVSPLEASES	..TD.KVPIT	ISISPMCFEF	SGARNQ....	.STKQGLPVM
dq473507-53	IPISKLVSV.	GGTA.YVPIT	ISISPMASEF	SGARN....	.NSPQGLPVM
hrv-54	IPVSPKSDQ	.ASV.RVPIT	ISISPMCAEF	SGARAR...P	AAAAQGLPVY
hrv-54-f05	IPVSSKSDQ	.ASV.RVPIT	ISISPMCAEF	SGARAR...P	AAAAQGLPVY
dq473511-55	IPICPLEA.Q	GVPN.TVPIT	VSISPMCAEF	SGARAK....	...SQGLPVM
hrv-56	IPVSPKSDT	LATS.QVPIT	ISISPMCAEF	SGARAK...P	NAAPQGLPVY
hrv-57	IPICPLEANG	IQPV.VVPIT	ISISPMCAEF	SGARAK....	...SQGLPVM
hrv-58	IPICPLQVEG	GGTP.SIPIT	VSISPMFSEF	SGPRNKVVF.	...SQGLPVM
dq473500-59	IPVSPKSDA	SATS.KVPIT	ISISPMFAEF	SGARAK...P	MAVGQGLPVY
hrv-60	IPICPLEVST	TGTN.GIPIT	VSISPMFAEF	SGARAR....	...SQGLPTM
hrv-61	IPICELRGS.	GVDL.TIPIT	ISISPMCAEF	SGARAN....	...SQGLPVL
hrv-62	IPVSKLQADN	TGSV.VVPIT	ISISPMFAEF	SGARAR..PA	RATTEGLPTY
hrv-63	IPISPLNSDP	LATA.KVPIT	ISISPMCAEF	SGARAK...P	VAVGQGLPVY

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hrv-64	IPICPLETES	.VDT.TVPIT	ISISPMYAEF	SGARAR....	...SQGLPVL
ef173417-64	IPICPLETES	.VDT.TVPIT	ISISPMYAEF	SGARAR....	...SQGLPVL
hrv-65	IPVSP LDSQA	..TG.NVPIT	ISISPMCSEF	SGARNQSV..	...KQGLPVM
hrv-66	IPVSP LKAEN	ATSV.IVPIT	ISISPMFAEF	SGARAR...P	VA..QGLPVY
hrv-67	IPICPLQVEG	AGSN.IIPIT	VSISPMFAEF	SGARAR....	...NQGLPVL
hrv-68	IPISQLKFEP	GATP.FIPIT	LSISPMCSEF	SGARNN....	..TTQGLPVM
hrv-71	IPISPLEAN.	.VTD.PVPIT	ISISPMCTEF	SGARNQSV..	..KIQGLPVM
dq473492-73	IPICKLRCQ.	GISP.VVPIT	ISISPMCAEF	SGARAR....	..NVTQGLPTF
dq473494-74	IPICPLEVSG	NEVN.TVPIT	ISISPMFAEF	SGARAR....	...SQGLPVM
dq473510-75	IPICELQVDT	GVPA.TVPIT	ISISPMFAEF	SGARAR....	...SQGIPTM
dq473502-76	IPICPLESLP	...SSTVPIT	ISISPMCAEF	SGARA....	TARNQGLPVF
hrv-76	IPICPLESLP	...SSTVPIT	ISISPMCAEF	SGARA....	TARNQGLPVF
hrv-77	IPISPLKSDT	AATA.IVPIT	ISISPMFAEF	SGARAH...P	TA..QGLPVY
hrv-78	IPVCSLQSEA	GATG.LVPIT	VSISPMFAEF	SGARN.AVV.	...QQGLPVM
ef173418-78	IPVCSLQSEA	GATG.LVPIT	VSISPMFAEF	SGARN.AVV.	...QQGLPVM
hrv-80	IPVCPLEVAV	GSEQ.YVPIT	ISISPMCSEF	SGARN..MV.	QGLPVF
hrv-81	IPICQLQSNN	.TSN.IVPIT	VSISPMFAEF	SGARAKTVV.	QGLPVY
hrv-81-f06	IPICQLQSNN	.TSN.IVPIT	VSISPMFAEF	SGARAKTVV.	QGLPVY
hrv-81-f07	IPICQLQSNN	.TSN.IVPIT	VSISPMFAEF	SGARAKTVV.	QGLPVY
hrv-82	IPICPLETN.	GGDA.TVPIT	ISISPMFAEF	SGARAR....	...SQGLPVL
dq473509-82	IPICPLETN.	GGDV.TVPIT	ISISPMFAEF	SGARAR....	...SQGLPVL
hrv-85	IPISPLKSDT	TATS.KVPIT	ISISPMCAEF	SGARAR...P	VAAAQGLPVY
pico-85	IPISPLKSDT	TATS.KVPIT	ISISPMCAEF	SGARAR...P	VAAAQGLPVY
dq473504-88	IPICPLQVEM	SGTQ.TVPIT	VSISPMFSEF	SGPRNKVVF.	...NQGFVPM
a10937-89	IPICPLQVQP	GGTQ.SIPIT	VSISPMFSEF	SGPRSKVVF.	..STTQGLPVM
hrv-89	IPICPLQVQP	GGTQ.SIPIT	VSISPMFSEF	SGPRNKVVF.	..STTQGLPVM
hrv-89-f08	IPICPLQVQP	GGTQ.SIPIT	VSISPMFSEF	SGPRNKVVF.	..STTQGLPVM
hrv-89-f09	IPICPLQVQP	GGTQ.SIPIT	VSISPMFSEF	SGPRNKVVF.	..STTQGLPVM
m16248-89	IPICPLQVQP	GGTQ.SIPIT	VSISPMFSEF	SGPRSKVVF.	..STTQGLPVM
hrv-90	IPICPLESMQ	.VPN.TVPIT	ISISPMCAEF	SGARAR....	...SQGLPVM
hrv-94	IPICPLETQS	.QDT.TVPIT	ISISPMYAEF	SGARAR....	...SQGLPVL
ef173419-94	IPICPLETQS	.QDT.TVPIT	ISISPMYAEF	SGARAR....	...SQGLPVL
hrv-95	VPISQLR...	GDTN.SIPIT	ISISPMAAEF	SGARNR....	SARIEGLPVM
hrv-96	IPICRLNSM.	GGEP.TVPIT	ISISPMCAEF	SGARAK....	...NQGLPVL
hrv-98	IPVSP LKSDQ	.ASI.RVPIT	ISISPMCAEF	SGARAK...P	TAAAQGLPVY
hrv-100	IPISPLKSEP	GASA.LVPIT	ISISPMFAEF	SGARAK...T	IAAPQGLPVY
ef186077-qpm	IPICPLRAPA	TAPS.TLPIT	ISIAPIKSEF	SGARQS....	..AKAQGLPVR
ef077279-nat001	IPICPLRPPN	PGQQ.TLPIT	ISIAPIKSEF	SGARQA...I	KATAQGLPVR
ny1078	IPICPLKTPS	GAPR.TLPIT	VSIAPDRSES	SGARQS....	..ATRQGLPTR
ef582385-c024	IPIVPLRAAN	GVTK..VPIT	ISIAPDKSEF	SGARQS....	..VKQGLPTR
ef077280-nat045	IPIVPLKANT	DAVN.SLPIT	VTIAPDKSEF	SGAMKS....	..QQQGLPTR
ef582387-c026	IPICPLRAPA	TAPQ.TLPIT	ISIAPIKSEF	SGARQS....	..TKQGLPVR
ef582386-c025	IPLVPLRSGS	TQTINRLPIT	ISIAPDKSEF	SGARQS....	..NKVQGLPVR
dq473485-03	VPIAPLNAPT	GSSP.TLPVT	VTIAPMCTEF	TGIRSR SIVP	QGLPTT
ef173422-03	VPIAPLNAPT	GSSP.TLPVT	VTIAPMCTEF	TGIRSR SIVP	QGLPTT
dq473490-04	IPIVNITATS	GAAP.SISIT	VTIAPMYLEL	SGIRSKTVI.	QGLPTV
hrv-05	IPIVDITATS	GTTP.SIPVT	ITIAPMFLEL	SGIRSKAVI.	QGLPAV
dq473486-06	IPIAPLVAPT	GSPQ.TLPVT	VTIAPMCTEF	TGIRSKTIVP	QGLPTT
l05355-14	IPIAPLTVPT	GATP.SLPIT	VTIAPMCTEF	SGIRSKSIVP	QGLPTT
k02121-14	IPIAPLTVPT	GATP.SLPIT	VTIAPMCTEF	SGIRSKSIVP	QGLPTT
ef173420-17	IPVVPLVNPV	GMST.IIPIT	VTIAPMYTEF	SGIRSKAVVP	QGLPTL
hrv-26	IPIVGITATS	GSAP.SIPVT	VTIAPMFLEL	SGIRSRTVI.	QGLPTV
hrv-27	IPVVPITANT	GSPP.SIPVT	VTIAPMNLEL	SGIRSKTVV.	..KEQGLPTT
ef173421-27	IPVVPITANT	GSPP.SIPVT	VTIAPMNLEL	SGIRSKTVV.	..KEQGLPTT
dq473487-35	IPIAPLAAPT	GSAT.TLPIT	VTIAPMFTEF	TGIRSKTIVP	NATPQGLPTT
hrv-35	IPIAPLAAPT	GSAT.TLPIT	VTIAPMFTEF	TGIRSKTIVP	NATPQGLPTT
ef173423-37	IPIAPLVAPT	GSPQ.TLPVT	VTIAPMCTEF	TGIRSKTIVP	QGLPTT
hrv-42	IPIVQIAATT	GAAP.SIPVT	VTIAPMFLEL	SGIRSKAVI.	QGLPTV

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dq473488-48	IPIVPLAHPT	GMTT.TIPIT	VTIAPMCTEF	SGIRSKAVAI	QGLPTL
hrv-52	IPIVPLSNPT	GMTT.TIPVT	VTIAPMYTEF	SGIRSKAVVP	QGLPTL
hrv-52-f10	IPIVPLSSPS	GMTT.TIPVT	VTIAPMYTEF	SGIRSKAVI.	...KQGLPTL
ef173424-52	IPIVPLSNPT	GMTT.TIPVT	VTIAPMYTEF	SGIRSKAVVP	QGLPTL
hrv-69	IPVVPLTNPT	GMST.TIPIT	VTIAPMNTEF	SGIRSRAVVP	QGLPTL
dq473489-70	IPVVPLVNPV	GMST.IIPVT	VTIAPMYTEF	SGIRSKAVVP	QGLPTL
hrv-72	IPIAPLIVPT	NASP.TLPVT	VTIAPMCTEF	TGIRSKTVV.	...PQGLPTT
hrv-79	IPISPLMAPT	GNSQ.TLPIT	VTIAPMCTEF	TGIRSKTIVP	NVSPQGLPVT
hrv-83	IPIVPLSVPN	GNQP.TLPIT	VTIAPMCTEF	SGIRSKTIVP	NASPQGLPTT
hrv-84	IPVIPITATS	GAAH.SVPIT	VTIAPMFLEL	SGIRSMAVV.	...TQGLPTT
hrv-86	IPISPLTAPT	NSPN.TLPVT	VTIAPMCAEF	SGIRSRSIVP	QGLPTT
hrv-91	IPVVPLINPV	GMST.IIPIT	VTIAPMCTEF	SGIRSQAV..	..KIQGLPTL
hrv-92	IPIVPLMAPT	GNAT.TLPIT	VTIAPMCTEF	SGIRSKTIVP	NATPQGLPTT
ef173425-93	IPVVPIITAST	GSAP.SIPVT	VTIAPMNPEL	SGIRSKTVI.	..TPQGLPTT
hrv-97	IPIVPITAST	GSSH.SIPIT	VTIAPMNLEL	SGIRSKTVI.	...TQGLPTT
hrv-99	IPVVNITATS	GTSP.SIPVT	VTIAPMFLEL	SGIRSKAVI.	QGLPTV
351					400
annotation	.....	.....	.....	.....BBBBB	BBBBBBBBBK
af499637-cva13	STPGSNQYLT	SDNFQSPCAL	PEFDVTQPIF	IPGEVKNLME	LAEIDTMIPM
af546702-cva21	NTPGSNQFLT	SDDFQSPCAL	PNFDVTPIIH	IPGEVKNMME	LAEIDTLIPM
v01149-pv1m	NTPGSNQYLT	ADNFQSPCAL	PEFDVTPIID	IPGEVKNMME	LAEIDTMIPF
d00239-01	ITPGSGQFMT	TDDMQSPCAL	PWYHPTKEIS	IPGEVKNLIE	MCQVDTLIPV
pico-01	ITPGSGQFMT	TDDMQSPCAL	PWYHPTKEIS	IPGEVKNLIE	MCQVDTLIPV
hrv-01	ITPGSGQFMT	TDDMQSPCAL	PWYHPTKEIS	IPGEVKNLIE	MCQVDTLIPV
x02316-02	ITPGSGQFLT	TDDFQSPCAL	PWYHPTKEIS	IPGEVKNLVE	ICQVDSLVIPI
hrv-07	LTPGSGQFLT	TDDTQSPSAF	PYFHPTKEIF	IPGQVRNLIE	MCQVDTLIPI
dq473503-07	LTPGSGQFLT	TDDTQSPSAF	PYFHPTKEIF	IPGQVRNLIE	MCQVDTLIPI
hrv-08	LTPGSGQFLT	TDDMQSPSVL	PYFHPTQEIF	IPGEVKNLVE	LCQVDTMVP
pico-09	TTPGSGQFMT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLIE	MCQVDTIIP
hrv-09	TTPGSGQFMT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLIE	MCQVDTIIP
hrv-09-f01	TTPGSGQFMT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLIE	MCQVDTIIP
hrv-09-f02	TTPGSGQFMT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLIE	MCQVDTIIP
dq473498-10	VTPGSGQFMT	TDDLQSPSAL	PWYHPTKEIL	IPGEVKNLIE	MCQVDSLIP
hrv-10	VTPGSGQFMT	TDDLQSPSAL	PWYHPTKEIL	IPGEVKNLIE	MCQVDSLIP
ef173414-11	ITPGSGQFMT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLIE	LCQVDTLIPI
ef173415-12	ITPGSGQFLT	TDDAQSPSAL	PYFHPTKEIF	IPGQVKNLIE	MCQVDTLIPV
hrv-13	LTPGSGQFLT	TDDFQSPSAL	PWYHPTKEIS	IPGQVRNLIE	LCQVDTMIPI
hrv-13-f03	LTPGSGQFLT	TDDFQSPSAL	PWYHPTKEIS	IPGQVRNLIE	LCQVDTMIPI
dq473493-15	MTPGSGQFMT	TDDYQSPSAL	PWFHPTKEIS	IPGEVKNLVE	MCQVDTLIPI
l24917-16	VTPGSGQFMT	TDDMQSPCAL	PWYHPTKEIF	IPGEVKNLIE	MCQVDTLIPI
hrv-18	LTPGSGQFMT	TDDFQSPCAL	PWFHPTKEIS	IPGQVRNLIE	LCQVDTLIPI
hrv-19	ITPGSGQFMT	TDDYQSPSAL	PWFHSTKEIS	IPGQVRNLAE	LCQVDTIIP
hrv-20	LTPGSAQFLT	TDDAQSPSAL	PYFHPTKEIF	IPGKVNNLSE	ICQVDSMIPI
hrv-21	LTPGSGQFMT	TDDFQSPSAL	PWFHPTKEIS	IPGQVTNLIE	LCQVDTLIPV
hrv-22	LTPGSGQFLT	TDDYQSPSAL	PWFHPTKEIF	IPGQVRNLSE	LCQVDTIIP
dq473497-23	ITPGSGQFLT	TDDFQSPCAL	PWYHPTKEIF	IPGEVKNLVE	ICQVDSLIP
hrv-24	ITPGSGQFLT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLVE	LCQVDTLIPI
ef173416-24	ITPGSGQFLT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLVE	LCQVDTLIPI
hrv-25	ITPGSGQFMT	TDDFQSPSAL	PWYHPTKEIL	IPGEVKNLIE	MCQVDTLIPI
dq473508-28	LTPGSAQFLT	TDDAQSPSAL	PYFHPTKEIF	IPGRVNNLSE	ICQIDSMIP
hrv-29	MTPGSGQFMT	TDDFQSPSAL	PWYHPTKEIL	IPGEVKNLIE	ICQVDTLIPI
dq473512-30	VTPGSGQFLT	TDDYQSPCAL	PWYHPTKEIF	IPGEVKNLVE	ICQVDSLIP
hrv-30	VTPGSGQFLT	TDDYQSPCAL	PWYHPTKEIF	IPGEVKNLVE	ICQVDSLIP
hrv-31	MTPGSGQFMT	TDDFQSPSAL	PWYHPTKEIL	IPGEVKNLIE	MCQVDTLIPI
hrv-32	MTPGSGQFMT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLIE	MCQVDTIIP
hrv-33	ITPGSGQFMT	TDDFQSPSAL	PWFHPTREIS	IPGQVKNLVE	LCQIDTLIP
hrv-34	LTPGSGQFMT	TDDFQSPCAL	PWYHPTKEIS	IPGQVRNLIE	LCQVDTLIPI

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dq473501-34	LTPGSGQFMT	TDDFQSPCAL	PWYHPTKEIS	IPGQVRNLIE	LCQVDTLIPI
dq473505-36	LTPGSGQFLT	TDDTQSPSAF	PYFHPTKEIF	IPGQVRNLIE	MCQVDTLIPV
hrv-38	MTPGSGQFMT	TDDFQSPCAL	PWFHPTKEIS	IPGEVKNLIE	LCQVDTMIPI
dq473495-38	MTPGSGQFMT	TDDFQSPCAL	PWFHPTKEIS	IPGEVKNLIE	LCQVDTMIPI
ay751783-39	MTPGSGQFLT	TDDLQSPSAL	PWYHPTKEIF	IPGQVRNLIE	MCQVDTMIPI
hrv-40	LTPGSNQFMT	TDDFQSPCAL	PWYHPTKEIF	IPGEVKNLIE	MCQVDTLIPI
dq473491-41	LTPGSGQFLT	TDDYQSPSAL	PWYHPTKEIS	IPGQVQNLIE	LCQVATMIPI
hrv-43	LTPGSGQFMT	TDDFQSPSAL	PWYHPTKEIS	IPGQVRNLIE	MCEVDTLIPI
dq473499-44	MTPGSGQFMT	TDDFQSPSAL	PWYHPTKEIL	IPGEVKNLME	ICQVDTLIPI
hrv-45	LTPGSGQFLT	TDDMQSPSVL	PYFHSTQEIF	IPGEVKNLIE	LCQVDTMVL
dq473506-46	ITPGSAQFLT	TDDTQSPSAL	PYFHPTKEIF	IPGEVKNLSE	ICQVDSMIPI
hrv-47	MTPGSGQFMT	TDDFQSPSAL	PWYHPTKEIL	IPGEVRNLIE	MCQVDTLIPI
dq473496-49	ITPGSGQFLT	TDDFQSPCAL	PWYHPTKEIS	IPGEVKNLVE	ICQVDSLVIPI
hrv-49-f04	ITPGSGQFLT	TDDFQSPCAL	PWYHPTKEIS	IPGEVKNLVE	ICQVDSLVIPI
hrv-50	LTPGSGQFMT	TDDFQSPCAL	PWYHPTKEIS	IPGQVRNLIE	LCQVDTLIPI
hrv-51	LTPGSAQFLT	TDDTQSPSAL	PYFHPTKEIF	IPGKVSNLSE	ICQVDSMIPV
dq473507-53	LTPGSEQFLT	TDDAQSPSAL	PYFHPTKEIF	IPGRVTNLSE	ICQIDSMIPI
hrv-54	VTPGSGQFMT	TDDLQSPCAL	PWYHPTKEIF	IPGEVRNLIE	MCQVDTLIPI
hrv-54-f05	ITPGSGQFMT	TDDLQSPCAL	PWYHPTKEIF	IPGEVRNLIE	MCQVDTLIPI
dq473511-55	TTPGSGQFMT	TDDYQSPCAL	PWFHSTKEIS	IPGQVRNLIE	LCQVDTLIPV
hrv-56	VTPGSGQFMT	TDDLQSPSAL	PWYHPTKEIF	IPGEVKNLIE	MCQVGTLPV
hrv-57	VTPGSGQFMT	TDDYQSPSAL	PWFHPTKEIS	IPGQVRNLIE	MCQVDTLIPV
hrv-58	LTPGSGQFLT	TDDTQSPSAF	PYFHPTKEIF	IPGQVKNLIE	MCQVDTLIPI
dq473500-59	ITPGSGQFMT	TDDLQSPSAL	PWYHPTKEIF	IPGEVKNLIE	MCQVDTLIPI
hrv-60	LTPGSGQFMT	TDDFQSPCAL	PWFHPTKEIS	IPGEVKNLIE	LCQVDSMIPI
hrv-61	LTPGSGQFMT	TDDFQSPSAL	PWYHPTKEIS	IPGQVRNLVE	LCQVDTLIPI
hrv-62	ITPGSGQFMT	TDDFQSPSAL	PWYHPTKEIL	IPGEVKNLIE	MCQVDTLIPI
hrv-63	VTPGSGQFMT	TDDLQSPSAL	PWYHSTKEIF	IPGEVKNLIE	MCQVGTLPV
hrv-64	LTPGSGQFMT	TDDYQSPSAL	PWFHPTKEIF	IPGQVQNLSE	LCQVDTIPI
ef173417-64	LTPGSGQFMT	TDDYQSPSAL	PWFHPTKEIF	IPGQVQNLSE	LCQVDTIPI
hrv-65	LTPGSAQFLT	TDDTQSPSAL	PYFHSTKEIF	IPGKVNNLSE	ICQVDSMIPI
hrv-66	ITPGSGQFMT	TDDLQSPSAL	PWYHPTKEIM	IPGEVKNLIE	MCQVDTLIPI
hrv-67	TTPGSGQFMT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLIE	ICQVDTLIPI
hrv-68	LTPGSAQFLT	TDDAQSPSAL	PYFHPTKKIF	IPGEVKNLSE	ICQVDSMIPI
hrv-71	LTPGSAQFLT	TDDAQSPSAL	PYFHPTKEIF	IPGEVKNLSE	ICQVDSIPI
dq473492-73	ITPGSGQFLT	TDDFQSPSAL	PWYHPTKEIS	IPGQVRNLVE	LCQVDTMIPI
dq473494-74	MTPGSGQFMT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLVE	MCQVDTLIPI
dq473510-75	LTPGSGQFMT	TDDFQSPSAL	PWYHPTKEIS	IPGQVRNLIE	LCEVDTLIPI
dq473502-76	ITPGSGQFMT	TDDFQSPSAL	PWFHPTREIS	IPGQVKNFVE	LCQIDTLIPI
hrv-76	ITPGSGQFMT	TDDFQSPSAL	PWFHPTREIS	IPGQVKNLVE	LCQIDTLIPI
hrv-77	ITPGSGQFMT	TDDLQSPSAL	PWYHPTKEIM	IPGEVKNLIE	MCQVDTLIPI
hrv-78	LTPGSEQFLT	TDDNQSPSAL	PWFHPSKEIF	IPGRVTNLAE	ICQVDTLIPV
ef173418-78	LTPGSEQFLT	TDDNQSPSAL	PWFHPSKEIF	IPGRVTNLAE	ICQVDTLIPV
hrv-80	LTPGSAQFLT	TDDTQSPSAL	PYFHPTKEIF	IPGEVKNLSE	ICQVDSMIPV
hrv-81	VTPGSGQFMT	TDDMQSPCAL	PWYHPTKEIF	IPGEVKNLIE	MCQVDTLIPI
hrv-81-f06	VTPGSGQFMT	TDDMQSPCAL	PWYHPTKEIF	IPGEVKNLIE	MCQVDTLIPI
hrv-81-f07	VTPGSGQFMT	TDDMQSPCAL	PWYHPTKEIF	IPGEVKNLIE	MCQVDTLIPI
hrv-82	MTPGSGQFMT	TDDYQSPSAL	PWFRSTKEIF	IPGQVHNLAE	LCQVDTIPI
dq473509-82	MTPGSGQFMT	TDDYQSPSAL	PWFHSTKEIF	IPGQVHNLAE	LCQVDTIPI
hrv-85	LTPGSNQFMT	TDDFQSPCAL	PWYHPTKEIF	IPGEVKNLIE	MCQVDTLIPI
pico-85	LTPGSNQFMT	TDDFQSPCAL	PWYHPTKEIF	IPGEVKNLIE	MCQVDTLIPI
dq473504-88	LTPGSGQFLT	TDDMQSPSAF	PYFHPTKEIF	IPGEVKNLVE	MCQVDTLIPV
a10937-89	LTPGSGQFLT	TDDTQSPSAF	PYFHPTKEIF	IPGQVRNLIE	MCQVDTLIPV
hrv-89	LTPGSGQFLT	TDDTQSPSAF	PYFHPTKEIF	IPGQVRNLIE	MCQVXTLIPV
hrv-89-f08	LTPGSGQFLT	TDDTQSPSAF	PYFHPTKEIF	IPGQVRNLIE	MCQVDTLIPV
hrv-89-f09	LTPGSGQFLT	TDDTQSPSAF	PYFHPTKEIF	IPGQVRNLIE	MCQVDTLIPV
m16248-89	LTPGSGQFLT	TDDTQSPSAF	PYFHPTKEIF	IPGQVRNLIE	MCQVDTLIPV
hrv-90	ITPGSGQFLT	TDDFQSPSAL	PWFHPTKEIS	IPGQVRNLVE	LCQVDTLIPI

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hrv-94	MTPGSGQFMT	TDDYQSPSAL	PWFHPTKEIF	IPGQVQNLSE	LCQVDTIIP
ef173419-94	MTPGSGQFMT	TDDYQSPSAL	PWFHPTKEIF	IPGQVQNLSE	LCQVDTIIP
hrv-95	LTPGSGQFLT	TDDMQSPSVL	PYFHPTQEIF	IPGEVKNLVE	LCQVDTMVP
hrv-96	LTPGSGQFMT	TDDFQSPSAL	PWYHPTKEIS	IPGQVRNLIE	LCQVDTLIPI
hrv-98	VTPGSGQFMT	TDDLQSPCAL	PWYHPTKEIF	IPGEVKNLIE	MCQVDTLIPV
hrv-100	ITPGSGQFLT	TDDLQSPSAL	PWYHPTKEIL	IPGEVKNLIE	MCQVDTLIPI
ef186077-qpm	MPSGANQFMT	TEDEQSPNIL	PSFHSTKQIH	IPGEIKTIMD	MARVDSFMPI
ef077279-nat001	MPSGANQFMT	TEDEQSPNVL	PGFHPTKQIH	IPGEIKTIMD	IARVDSFMPI
ny1078	MPSGANQFMT	TEDEQSGNIL	PNFSPTKQIH	IPGQIKTIMD	MARVDSFMPI
ef582385-c024	LPSGSQQFLT	TEDEQSANLL	PDFSVTKIID	IPGRITNILH	MAMVDSFMPL
ef077280-nat045	SPAGSQQFMT	TEDEQSPNIL	PEYSPTKMIH	IPGRIDNILH	IAMVESLIPL
ef582387-c026	MPSGANQFMT	TEDEQSPNIL	PSFHSTKQIH	IPGQIKTIMD	MARVDSFMPI
ef582386-c025	MPSGAQQFMT	TEDEQSANLL	PGFHPTPIMH	IPGEITNIMH	MARVDSFMPI
dq473485-03	TLPGSGQFLT	TDDRQSPSAL	PSYEPTPRIH	IPGKVRNLLE	IIQVGTLIPM
ef173422-03	TLPGSGQFLT	TDDRQSPSAL	PSYEPTPRIH	IPGKVRNLLE	IIQVGTLIPM
dq473490-04	LTPGSEQFLT	TDDRQSPSAM	PNYEPTPLIH	IPGEVRNLLE	IAQVDTLIPI
hrv-05	LTPGSEQFLT	TDDRQSPSAM	PNYEPTPLIH	IPGEVKNLLE	IAQVDTLIPL
dq473486-06	TLPGSGQFLT	TDDRQSPSAL	PNYEPTPRIH	IPGKVRNLLE	IIQVDTLIPM
l05355-14	TLPGSGQFLT	TDDRQSPSAL	PNYEPTPRIH	IPGKVHNLLE	IIQVDTLIPM
k02121-14	TLPGSGQFLT	TDDRQSPSAL	PNYEPTPRIH	ILGKVHNLLE	IIQVDTLIPM
ef173420-17	TTPGSGQFLT	TDDRQSPSAM	PNYEPTPLIH	IPGEVHNLLE	IIQVDTLIPM
hrv-26	LTPGSEQFLT	TDDRQSPSAM	PNYEPTPLIH	IPGEVNNLLE	MAQVDTLIPI
hrv-27	LTPGSEQFLT	TDDRQSPSAL	PNYEPTPLIH	IPGRVTNLLE	LVQVDTMIPI
ef173421-27	LTPGSEQFLT	TDDRQSPSAL	PNYEPTPLIH	IPGRVTNLLE	LVQVDTMIPI
dq473487-35	TLPGSGQFLT	TDDRQSPSAL	PNYEPTPKIH	IPGEVKNLLE	IIQVDTLIPM
hrv-35	TLPGSGQFLT	TDDRQSPSAL	PNYEPTPKIH	IPGEVKNLLE	IIQVDTLIPM
ef173423-37	TLPGSGQFLT	TDDRQSPSAL	PSYEPTPRIH	IPGKVENLLE	IIQVDTLIPM
hrv-42	LTPGSEQFLT	TDDRQSPSAM	PNYEPTPLIH	IPGEVKNLLE	IAQVDTLIPI
dq473488-48	TTPGSGQFLT	TDDRQSPSAM	PNYEPTPIH	IPGEVHNLLE	IIQVDTLIPM
hrv-52	TTPGSGQFLT	TDDRQSPSAM	PNYEPTPQIH	IPGEVHNLLE	LIQVDTLIPL
hrv-52-f10	TTPGSGQFLT	TDDRQSPSAM	PNYEPTPQIH	IPGEVHNLLE	LIQVDTLIPL
ef173424-52	TTPGSGQFLT	TDDRQSPSAM	PNYEPTPQIH	IPGEVHNLLE	LIQVDTLIPL
hrv-69	TTPGSGQFLT	TDDRQSPSAM	PNYEPTPIH	IPGEVHNLLE	IIQVDTLIPM
dq473489-70	TTPGSGQFLT	TDDRQSPSAM	PNYEPTPLIH	IPGEVHNLLE	IIQVDTLIPM
hrv-72	TLPGSGQFLT	TDDRQSPSAL	PNYEPTPKIH	IPGQVKNLLE	IIQVDTLIPM
hrv-79	TLPGSGQFLT	TDDRQSPSAL	PNYEPTPRIH	IPGKVRNLLE	IIQVDTLIPM
hrv-83	TLPGSGQFLT	TDDRQSPSAL	PNYEPTPRIH	IPGQVRNLLE	IIQVDTMIPM
hrv-84	STPGSNQFLT	TDDRQSPSAL	PNYEVTPLIH	IPGRVVNLLE	IAQVDSLIP
hrv-86	TLPGSGQFLT	TDDRQSPSAL	PCYEPTPKIH	IPGEVKNLLE	MIQVDTLIPM
hrv-91	TTPGSGQFLT	TDDRQSPSAM	PNYEPTPIH	IPGEVHNLLE	IIQVDTLIPM
hrv-92	TLPGSGQFLT	TDDRQSPSAL	PNYEPTPRIH	IPGQVKNLLE	IIQVDTLIPM
ef173425-93	LTPGSEQFLT	TDDRQSPSAL	PNYEPTPLIH	IPGRVTNLLE	LIQVDTMIPI
hrv-97	LTPGSEQFLT	TDDRQSPSAL	PNYEPTPLIH	IPGRVTNLLE	IIQVDSMIPI
hrv-99	LTPGSEQFLT	TDDRQSPSAM	PNYEPTPLIH	IPGEVKNLLE	IAQVDTLIPI

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annotation	KKKKKK..KK	KKKKK.....		BBCBBHHHHH	H.HHAHHHHH
af499637-cva13	DLSEGK.RNS	MDMYRVKISD	AGDR..NKPI	LCLTLSPASD	PRLSYTMLGE
af546702-cva21	NAVDGK.VNT	MEMYQIPLND	NLSK...API	FCLSLSPASD	KRLSHTMLGE
v01149-pv1m	DLSATK.KNT	MEMYRVRLSD	KPHT..DDPI	LCLSLSPASD	PRLSHTMLGE
d00239-01	NNVGTV.VGN	ISMYTVQLGN	QMDM..AQEV	FAIKVDITSQ	P.LATTLIGE
pico-01	NNVGTV.VGN	VSMYTVQLGN	QTGM..AQKV	FSIKVDITSQ	P.LATTLIGE
hrv-01	NNVGTV.VGN	VSMYTVQLGN	QTGM..AQKV	FSIKVDITSQ	P.LATTLIGE
x02316-02	NNTDTY.INS	ENMYSVVLQS	SINA..PDKI	FSIRTDVASQ	P.LATTLIGE
hrv-07	NNTGNN.VRS	ANMYTVDLTT	QDHP.YAQEV	FAIPVDVASH	P.LATTYLGE
dq473503-07	NNTGNN.VRS	ANMYTVDLTT	QDHP.YAQEV	FAIPVDVASH	P.LATTYLGE
hrv-08	NNINAS.RNR	IDMYALPLTR	QPQS..AVKL	FTIPIDIASP	P.LNTTLLGE
pico-09	NNTGTN.TTS	INMYTVQLER	QADL..MTEV	FAINVDIASH	P.LATTMLGE

TableS3.hrvPro.Nov6.txt

hrv-09	NNTGTN.TTS	INMYTVQVER	QADL..MSEV	FAINVDIASH	P.LATTMLGE
hrv-09-f01	NNTGTN.TTS	INMYTVQLER	TADL..MSEV	FAINVDIASH	P.LATTMLGE
hrv-09-f02	NNTGTN.TTS	INMYTVQLER	TADL..MSEV	FAINVDIASH	P.LATTMLGE
dq473498-10	NNTTAN.LRK	VNMYTIQLAN	QTNM..AEEI	FAIKVDIASQ	P.LSNTIIGE
hrv-10	NNTTAN.LRK	VNMYTIQLAN	QTNM..AEEI	FAIKVDIASQ	P.LSNTIIGE
ef173414-11	NSVEGN.TDN	TSIYTVTLTR	ETNL..AQEI	FAIKVDIASH	P.LATTLIGE
ef173415-12	NNVQAS.KNN	ISMYTVQLTT	QTDV..AKEV	FAIPVDVASQ	P.LATTMLGE
hrv-13	NNTNDN.IRD	KSMYTIRLGG	VTNA..KEAI	FAMRVDIASQ	P.LATTMIGE
hrv-13-f03	NNTNDT.IRD	KSMYTIRLGG	VTNA..KEAI	FAMRVDIASQ	P.LATTMIGE
dq473493-15	NNTPGN.VNT	INMYTVLLER	KDDL..MQEV	FSIRVDIASQ	P.LATTMIGE
l24917-16	NSTQSN.IGN	VSMYTVTLSP	QTKL..AEEI	FAIKVDIASH	P.LATTLIGE
hrv-18	NNLQAN.ITN	LDMYSVVLNR	EIDP..AKEV	FAIKVDIASQ	P.LATTLIGE
hrv-19	NHTTAT.TSS	VNMYTVVLDK	KTSL..AEEV	FAIKVDIASQ	P.LATTLIGE
hrv-20	NNTIAV.KNS	AGMYTVQVSQ	QTQP..AQEI	FSILVDVASQ	P.IATTLIGE
hrv-21	NNTETNGVTN	INMYTVTINR	EVNITPAKEI	FAIKVDIASQ	P.LATTLIGE
hrv-22	NHTTST.TSS	VNMYTIQLTK	QQPG...TEV	FAMRVDVASQ	P.LATTLIGE
dq473497-23	NNLEGN.ITS	EAMYSIELQS	STEQ..SK.I	FSIRTDIASQ	P.LATTLIGE
hrv-24	DSVEAN.IKS	TNMYTVTLTR	ETDS..AKEI	FAIKVDIASH	P.LATTLIGE
ef173416-24	DSVEAN.IKS	TNMYTVTLTR	ETDS..AKEI	FAIKVDIASH	P.LATTLIGE
hrv-25	NNTNNN.LRK	VNLYTVELTN	QPMP..AQKI	FSIKVDIASQ	P.LVNTMLGQ
dq473508-28	NNTHAV.KNT	VNMYTVEVRS	QTSL..AAEV	FAIPADIASQ	P.LATTLIGE
hrv-29	NNVSSN.LRK	VNLYTVQLTS	QTTP..AQQV	FAIKVDIASQ	P.LANTMLGQ
dq473512-30	NNTEDN.ITS	EAMYSIKLQS	SVDQ...DKI	FSLRTDIASQ	P.LATTLIGE
hrv-30	NNTEDN.ITS	EAMYSIKLQS	SVDQ...DKI	FSLRTDIASQ	P.LATTLIGE
hrv-31	NNTMQN.LRK	VNMYTIQLSS	QTEM..AQEI	FAIKVDIASQ	P.LANTMLGE
hrv-32	NNTGNN.TTS	INMYTVRLER	QTNL..MGEV	FAINVDIASH	P.LATTLIGE
hrv-33	NSTTAN.NDN	TSIYTVTLEK	QTNL..AQEV	FAIKVDIASN	P.LATTLIGE
hrv-34	NNLQQN.ISN	TDMYSVVLNN	ETEL..AKEI	FAIRVDIASQ	P.LATTLIGE
dq473501-34	NNLQQN.ISN	TDMYSVVLNN	ETEL..AKEI	FAIRVDIASQ	P.LATTLIGE
dq473505-36	NNKEEN.VKS	VNMYTVDLRT	QTEL..AKEV	FSIPVDVASQ	P.LATTLIGE
hrv-38	NNVGNN.TKS	VDMYTVVLQR	QDQL..MQEV	FAIRVDVASQ	P.LATTLIGE
dq473495-38	NNVGNN.TKS	VDMYTVVLQR	QDQL..MQEV	FAIRVDVASQ	P.LATTLIGE
ay751783-39	NNTNER.IGN	VNMYTVSLTS	QTNT..AEQI	FAIKVDIASQ	P.LSSTLIGE
hrv-40	NNTMPN.LRN	INKYTVQLTS	QMDL..AQEI	FALKVDVASQ	P.LSSTLLGE
dq473491-41	NNTNTN.IRD	KSMYTIRLGG	ETDI..KEAI	FAMRVDIASQ	P.LATTLIGE
hrv-43	NNVGTN.VKN	VNMYTVLLER	QDNL..AQEI	FAIRVDIASQ	P.LATTLIGE
dq473499-44	NNVNNN.LRK	VNLYTVQLTS	QTTP..AQQV	FAIKVDIASQ	P.LANTMLGQ
hrv-45	NNLHIN.KNK	IGMYALPLTR	QNTN..AAEL	FAMPVDITSS	P.LATTLIGE
dq473506-46	NNVEQH.KNS	VDMYSVVLTK	QTNP..AEEI	FAIPVDVASQ	P.LATTLIGE
hrv-47	NNTAQN.LRK	VNMYTIQLSN	QTEM..AQEI	FAIKVDIASQ	P.LASTMLGE
dq473496-49	NNTENN.ITN	ENMYSVVLQS	TVGE..PDKI	FSIKTDVASQ	P.LATTLIGE
hrv-49-f04	NNTENN.ITN	GDMYSVILQS	TIGE..PDKI	FSIKTDVASQ	P.LATTLIGE
hrv-50	NNLEHN.TTN	INMYSVVLN	ETEM..AKEI	FAIKVDIASQ	P.LATTLIGE
hrv-51	NNTTPV.NNS	IGMYTVRVEV	QTDF..KKEI	FAIPVDVASQ	P.LSTTLIGE
dq473507-53	NNTHGV.KNT	VNMYTVQVQE	QTTP..AKEV	FAIPVDVASQ	P.LATTLIGE
hrv-54	NNTFAN.LRN	VNKYAVSLFS	QTDF..AKEI	FAIKVDVASQ	P.LSSTLLGE
hrv-54-f05	NNTLPN.LRN	VSKYAVSLSS	QTDF..AKEI	FAIKVDVASQ	P.LSSTLLGE
dq473511-55	NNVEGN.EKR	IDMYTVTLRS	ETDV..AKEI	LAIRVDIASQ	P.LATTMIGE
hrv-56	NNTDAN.LRN	INKYTVQLSS	QTDL..AKEI	FAIKVDVASQ	P.LSSTLLGE
hrv-57	NNLEQN.IRK	VDMYSVILGQ	ETTP..AKEI	FAIKVDIASQ	P.LATTMIGE
hrv-58	NNVGNN.VKS	VNMYTVDLRS	QTEL..AQEV	FAIPVDIASQ	P.LATTYIGE
dq473500-59	NNTASN.IRN	VSMYTVQLTS	QVNL..AQEI	FAIKVDVASQ	P.LSSTLLGE
hrv-60	NNVADK.IRS	VDMYTVVLQR	QDEL..MQEV	FAIRVDVASQ	P.LATTLIGE
hrv-61	NNTKAN.IRN	KNMYTVQLGG	EPDP..TTPV	FTIRVDIASQ	P.LATTLIGE
hrv-62	NNTDNN.LRK	VNLYTVELTN	QPTP..AQKI	FSIKVDIASQ	P.LANTMLGQ
hrv-63	NNTNAN.IKN	VSMYTVQLTS	QTDL..AQEI	FAIKVDVASQ	P.LSSTLLGE
hrv-64	NNTTAN.TTS	VNMYTLQLTK	QSPG...HEV	FAMKVDIASQ	P.LATTMIGE
ef173417-64	NNTTAN.TTS	VNMYTLQLTK	QSPG...HEV	FAMKVDIASQ	P.LATTMIGE

TableS3.hrvPro.Nov6.txt

hrv-65	NNTIPM.NNK	IGMYTVEVGV	QTEL..KTEI	FAIPVDVASQ	P.LATTLLIGE
hrv-66	NNTQAN.LKK	INITYTIQLSN	QPKM..AEEI	FAIKVDIASQ	P.LSSTLLGQ
hrv-67	NNTGTN.TTS	INMYTVQLQR	QAEL..MQEI	FAINVDIASH	P.LATTLLGE
hrv-68	NNTPTA.RNS	TNMYTVQVGQ	QTKV..AQEV	FSILVDVASQ	P.LATTLLIGE
hrv-71	NNVEAR.KNS	ISMYTVEVGV	KTTL..AEEV	FAIPVDVASQ	P.LATTLLIGE
dq473492-73	NNIAAN.VTN	ESMYAISLES	NADI..KQAV	FAMRVDITSQ	P.LATTLLIGE
dq473494-74	NNTAGN.VNN	VNMYTVLLER	KPDL..MQEV	FAIKVDIASQ	P.LATTMIGE
dq473510-75	NNTSEN.LKT	TNMYTVYLER	RSDL..AQEI	FAIRVDIASQ	P.LATTLLIGE
dq473502-76	NSVTGN.TNN	TSIYTVTLTR	ETSL..AQEI	FAIKVDIASD	P.LATTLLIGE
hrv-76	NSVTGN.TNN	TSIYTVTLTR	ETSL..AQEI	FAIKVDIASD	P.LATTLLIGE
hrv-77	NNTQEN.LKK	VNVYTIQLTN	QLKM..AEEI	FAIKVDIASQ	P.LSNTMLGQ
hrv-78	NNVQAS.KNN	VSMYTVMLST	QTQT..AQEI	FAIPVDVASQ	P.LATTLLIGE
ef173418-78	NNVQAS.KNN	VSMYTVMLST	QTQT..AQEI	FAIPVDVASQ	P.LATTLLIGE
hrv-80	NNVQGN.KNS	VNMYSIILDK	QTTS..AGEV	FAIPVDIASQ	P.LATTLLIGE
hrv-81	NSTRTN.IGN	VNMYTVTLQP	QTDN..ATEV	FAIKVDIASH	P.LATTLLIGE
hrv-81-f06	NSTRAN.IGN	VNMYTVTLQP	QTDN..ATEV	FAIKVDIASH	P.LATTLLIGE
hrv-81-f07	NSTRAN.IGN	VNMYTVTLQP	QTDN..ATEV	FAIKVDIASH	P.LATTLLIGE
hrv-82	NYTSAN.TTS	VNMYTVVLDK	GDPG...REV	FAMRADIATH	P.LATTLLIGE
dq473509-82	NYTTAN.TTS	VNMYTVVLQK	ENPG...TEV	FAMRVDIATQ	P.LATTLLIGE
hrv-85	NNTSQN.LRN	INKYTVQLTS	QVNL..AQEI	FAIKVDVASQ	P.LSSTLLGE
pico-85	NNTSQN.LRN	INKYTVQLTS	QVNL..AQEI	FAIKVDVASQ	P.LSSTLLGE
dq473504-88	NNTEGN.VKS	ANMYTVHLAT	QDNH..AQEV	FSIPVDVASQ	P.LATTYLGE
a10937-89	NNTQEN.VRS	VNMYTVDLRT	QVDL..AKEV	FSIPVDIASQ	P.LATTLLIGE
hrv-89	NNTQEN.VRS	VNMYTVDLRT	QVDL..AKEV	FSIPVDIASQ	P.LATTLLIGE
hrv-89-f08	NNTQEN.VRS	VNMYTVDLRT	QVDL..AKEV	FSIPVDIASQ	P.LATTLLIGE
hrv-89-f09	NNTQEN.VRS	VNMYTVDLRT	QVDL..AKEV	FSIPVDIASQ	P.LATTLLIGE
m16248-89	NNTQEN.VRS	VNMYTVDLRT	QVDL..AKEV	FSIPVDIASQ	P.LATTLLIGE
hrv-90	DSVEAN.AKN	TSMYTVTLRS	ETEL..AKEI	FAIKVDIASH	P.LATTLLIGE
hrv-94	NNISSN.TTS	VNMYSLVLTK	ERPG...HEV	FAMKVDIASQ	P.LATTIIGE
ef173419-94	NNISSN.TTS	VNMYSLVLTK	ERPG...HEV	FAMKVDIASQ	P.LATTIIGE
hrv-95	NNINAS.RNR	IDMYALPLTR	QPQS..AVKL	FTIPIDIASP	P.LNTTLLGE
hrv-96	HNTATN.AKN	INMYTVQLGG	EPNP..KTPV	FTIRVDIASQ	P.LATTLLIGE
hrv-98	NNTIAN.LRN	VNKYAVSLSS	QTDF..AKEI	FAIKVDVASQ	P.LSSTLLGE
hrv-100	NNTIAN.LRK	VNMYTIQLTN	QTEM..AKEI	FAIKVDIASQ	P.LSSTMIGE
ef186077-qpm	NNVNQS..HT	LGVYYITISN	VSSE...RKI	LAIPLDMSNT	L.FSTTLMGE
ef077279-nat001	NNIPTM.INS	IGAYNIPITG	GHDN...KRI	VVIPLDTSNT	L.FSSTLLGE
ny1078	NNLQSQ.LQD	VGYNITLTG	TSNN...RI	LAIPLDMSNT	L.FSTTLMGE
ef582385-c024	NNIETN.VGQ	ISIYNVQVTK	KTAD...KPI	VVIPMDISNT	L.FSTTLLGE
ef077280-nat045	NNIPGQ.VGT	VGMYNVTIAS	KTAD...QDMI	LAIPLQMDNT	L.FATTLVGE
ef582387-c026	NNVNQS..QA	IGIYYIPISN	THNN...RRI	LAIPLDMSNT	L.FSTTLLGE
ef582386-c025	NNITDQ.KID	VPIYSRTVTA	RPASNSSDLI	LAIPLDMNNT	L.FSTTLLGE
dq473485-03	NNTGTN..DN	VTNYLIPLHA	DRQN...EQI	FGTKLYIGDG	V.FKTTLLGE
ef173422-03	NNTGTN..DN	VTNYLIPLHA	DRQN...EQI	FGTKLYIGDG	V.FKTTLLGE
dq473490-04	NN.AEG.ITG	LETYRIPLYQ	NRQG...QQV	FGFRLYLGDG	V.LKTTMLGE
hrv-05	NNTTNT..TG	LGMRYIPLVQ	NMQG...EQV	FGFRLYLGDG	V.LKTTLLGE
dq473486-06	NNVHTS..DE	VNSYLIPLTA	NRQN...DQI	FGTKLFIGDG	V.FKTTLLGE
l05355-14	NNHTTK..DE	VNSYLIPLNA	NRQN...EQV	FGTNLFIGDG	V.FKTTLLGE
k02121-14	NNHTTK..DE	VNSYLIPLNA	NRQN...EQV	FGTNLFIGDG	V.FKTTLLGE
ef173420-17	NNKGAT..DS	LEEYRIPLTV	NKKN...DQI	FGTRLFIGDG	V.FKTTLFGE
hrv-26	NNAKDV..VG	LDMYRIPLHQ	NRQE...TQV	FGFRLFLGDG	V.LKTTLLGE
hrv-27	NNVTDL..DT	IEKYRIPLMQ	NQQE...QQV	FGFSLFLGGG	V.LKTTLLGE
ef173421-27	NNVTDL..DT	IEKYRIPLMQ	NQQE...QQV	FGFSLFLGGG	V.LKTTLLGE
dq473487-35	NNHTTK..DE	VKSYLEIPLVA	NQQN...QKI	FGTDLYIGDG	V.FKTTLLGE
hrv-35	NNHTTK..DE	VKSYLEIPLVA	NQQN...QKI	FGTDLYIGDG	V.FKTTLLGE
ef173423-37	NNLQGS..DE	VSNYLIPLTA	NKQN...GQI	FGTKLFIGDG	V.FKTTLLGE
hrv-42	NNTETA..SG	LDMYRVPLTQ	NKQG...EQV	FGFKLYLGDG	V.LKTTLLIGE
dq473488-48	NNHTTT..DV	MDEYRIPLTV	GRVN...DQV	FGTRMFIGDG	V.FKTTLFGE
hrv-52	NNLGTT..DS	MSEYRIPLTA	GKVN...EQI	FGTRLYIGDG	V.FKTTLFGE

TableS3.hrvPro.Nov6.txt

hrv-52-f10	NNLGVT..DT	MSEYRIPLTA	GRVN...EQI	FGTRLYIGDG	V.FKTTLFGE
ef173424-52	NNLGTT..DS	MSEYRIPLTA	GKVN...EQI	FGTRLYIGDG	V.FKTTLFGE
hrv-69	NNIGAR..DT	MDEYRIPLEV	NKVN...EQI	FGTRLFIGDG	V.FKTTLFGE
dq473489-70	NNKGAT..DT	LDEYRIPLTV	NKKN...DQI	FGTRLFIGDG	V.FKTTLFGE
hrv-72	NNTHNK..DA	VKSYLIPLQP	NRQG...EMV	FGTKLFIGDG	V.FKTTLLGE
hrv-79	NNIYNK..DK	FNSYLIPLTA	NQQN...TQI	FGTNLFIGDG	V.FKTTLLGE
hrv-83	NKTKVN..DE	VGNYLIPLIQ	GQKN...EQI	FGTNLYIGDG	V.FKTTLLGE
hrv-84	NNIANN..DN	LERYRIPLTP	NVQE...TQV	FGFSLFLGGT	V.LKTTLLGE
hrv-86	NNTTAT..DE	VGNYLIPLNV	NKQN...EQI	FGTNLFIGDG	V.FKTTLLGE
hrv-91	NNKGTT..DT	LEEYRIPLTV	DKKD...GQI	FGTRLFIGDG	V.FKTTLFGE
hrv-92	NNTKTK..DE	VDSYLIPLTQ	GLKN...AQI	FGTNLYIGDG	V.FKTTLLGE
ef173425-93	NNVTEL..DT	IDKYRVPLIQ	GQQE...QQV	FGFSLFLGGK	V.LKTTLLGE
hrv-97	NNITLP..DG	VEKYRVPLMQ	NQQE...SQV	FGFSLFLGGD	V.LKTTLLGE
hrv-99	NNTKTA..TG	LDMYRIPLMQ	NKQG...EQV	FGFRLYLGDG	V.LKTTLLGE
451					500
annotation	HHHHHBBBBB	BBDBBBBBB.	BBBEBB	BBB.....	.HHHBHHHHB
af499637-cva13	ILNYYTHWAG	SLKFSFLFCG	SMMATGKLLV	AYSPPGAQPP	QDRKAAMLGT
af546702-cva21	ILNYYTHWTG	SIRFTFLFCG	SMMATGKLLL	SYSPPGAKPP	TNRKDAMLGT
v01149-pv1m	ILNYYTHWAG	SLKFTFLFCG	FMMATGKLLV	SYAPPGADPP	KKRKEAMLGT
d00239-01	IASYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIDKP	ATRKDAMLGT
pico-01	IASYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIDEP	TTRKDAMLGT
hrv-01	IASYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIDEP	TTRKDAMLGT
x02316-02	ISSYFTHWTG	SLRFSFMFCG	TANTTVKLLL	AYTPPGIAEP	TTRKDAMLGT
hrv-07	MSSYFTHWTG	SLRFSFMFCG	SACTTLKLLI	AYTPPGIAKP	TSRKEAMLGT
dq473503-07	MSSCFTHWTG	SLRFSFMFCG	SACTTLKLLI	AYTPPGIAKP	TSRKEAMLGT
hrv-08	IASYYTHWTG	SIRLSFMFCG	SANSSLKLLI	AYTPPGAPEP	TKRKEAMLGT
pico-09	IASYYTHWTG	SLRFSFMFCG	SASSTLKLLL	AYTPPGIAKP	TSRRDAMLGT
hrv-09	IASYYTHWTG	SLRFSFMFCG	SASSTLKLLL	AYTPPGIAKP	TSRRDAMLGT
hrv-09-f01	IASYYTHWTG	SLRFSFMFCG	SASTTLKLLL	AYTPPGIAKP	ISRRDAMLGT
hrv-09-f02	IASYYTHWTG	SLRFSFMFCG	SASTTLKLLL	AYTPPGIAKP	TSRRDAMLGT
dq473498-10	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIKKP	TNRKQAMLGT
hrv-10	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIKKP	TNRKQAMLGT
ef173414-11	IASYYTHWTG	SIRFSFLFCG	TANTTLKLLI	AYTPPGISKP	TSRKEAMLGT
ef173415-12	LSSYFTHWTG	SLRFSFMFCG	TANTTLKLLI	AYTPPGVPPK	DTRKKAMLGT
hrv-13	ISSYYTHWTG	SLRFSFMFCG	SAFTTLKLLI	AYTPPGITVP	ENRKKAMLGT
hrv-13-f03	ISSYYTHWTG	SLRFSFMFCG	SAFTTLKLLI	AYTPPGITVP	ENRKKAMLGT
dq473493-15	IASYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIAKP	SNRKEAMLGT
l24917-16	IASYFTHWTG	SLRFSFMFCG	TANTTLKVLL	AYTPPGIGKP	RSRKEAMLGT
hrv-18	ISSYYTHWTG	SLRFSFLFCG	SANTTLKLLV	AYTPPGIAKP	ADRKAAMLGT
hrv-19	MSSYYTHWTG	SLRFSFMFCG	TAGTTLKLLL	AYTPPGIAKP	QKRKDAMLGT
hrv-20	IASYYTHWTG	SLRFSFMFCG	TANTSCLKLLI	AYTPPGVPPK	ETRQKAMLST
hrv-21	IANYYTHWTG	SIRFSFLFCG	TANTTLKLLV	AYTPPGIKKP	ENRKDAMLGT
hrv-22	ISSYFTNWTG	SLRFSLMFCG	SAGTTLKMLV	AYTPPGIAKP	ETRKDAMLGT
dq473497-23	ISSYFTHWTG	SLRFSFMFCG	TANTTVKLLL	AYTPPGIAEP	TTRKNAMLGT
hrv-24	IASYYTHWTG	SLRFSFLFCG	TACTTLKLLI	AYTPPGIRKP	ENRREAMLGT
ef173416-24	IASYYTHWTG	SLRFSFLFCG	TACTTLKLLI	AYTPPGIRKP	ENRREAMLGT
hrv-25	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIGEP	QDRKQAMLGT
dq473508-28	IASYYTHWTG	SLRFSFMFCG	TANTSCLKLLI	AYTPPGVPPK	DSRQKAMLST
hrv-29	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIGKP	ETRQKAMLGT
dq473512-30	ISNYFTHWTG	SLRFSFMFCG	TANTTVKLLL	AYTPPGIAEP	TTRKDAMLGT
hrv-30	ISNYFTHWTG	SLRFSFMFCG	TANTTVKLLL	AYTPPGIAEP	TTRKDAMLGT
hrv-31	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIGKP	SSRKQAMLGT
hrv-32	IAGYYTHWTG	SLRFSFMFCG	SASTTLKLLL	AYTPPGISKP	TTRKEAMLGT
hrv-33	IASYFTHWTG	SVRFSFLFCG	TANTTLKLLL	AYTPPGIRKP	ISRKEAMLGT
hrv-34	IASYYTHWTG	SLRFSFMFCG	SANTTLKLLI	AYTPPGISKP	TKRKEAMLGT
dq473501-34	IASYYTHWTG	SLRFSFMFCG	SANTTLKLLI	AYTPPGISKP	TKRKEAMLGT
dq473505-36	LASYTHWTG	SLRFSFMFCG	SASSTLKLLI	AYTPPGVGKP	KSRREAMLGT

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hrv-38	ISSYYTQWTG	SLRFSFMFCG	TANTTLKLLI	AYTPPGIVKP	RNRKEAMLGT
dq473495-38	ISSYYTQWTG	SLRFSFMFCG	TANTTLKLLI	AYTPPGIVKP	RNRKEAMLGT
ay751783-39	IASYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIDKP	TTRKQAMLGT
hrv-40	ICSYYTHWTG	SLRFGFMFCG	TANTTLKLLI	AYTPPGIKKP	ENRKQAMLGT
dq473491-41	IASYYTHWTG	SLRFSFMFCG	SAFTTLKLLI	AYTPPGIDVP	STRKQAMLGT
hrv-43	IASYYTHWTG	SLRFSFMFCG	SASTTLKLLL	AYTPPGIAKP	TTRKDAMLGT
dq473499-44	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLI	AYTPPGIGKP	ENRKQAMLGT
hrv-45	IASYYTNWTG	SIRLSFMFCG	SANTSLKLLL	AYTPPGVSKP	TSRREAMLGT
dq473506-46	IASYYTHWTG	SIRISFMFCG	SANTSLKLLI	AYTPPGVPPK	TSRKEAMLGT
hrv-47	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIGKP	RDRKQAMLGT
dq473496-49	ISSYYTHWTG	SLRFSFMFCG	TANTTVKLLL	AYTPPGIAEP	TTRKEAMLGT
hrv-49-f04	ISSYYTHWTG	SLRFSFMFCG	TANTTVKLLL	AYTPPGIREP	TTRREAMLGT
hrv-50	VSSYYTHWTG	SLRFSFLFCG	SANTTLKLLI	AYTPPGIGKP	TNRKEAMLGT
hrv-51	IANYYTHWTG	SLRFSFMFCG	TASTSLKLLI	AYTPPGVDKP	NTRTKAMLGT
dq473507-53	IASYYTHWTG	SVRFSFMFCG	TANTSLKLLI	AYTPPGVPPK	TSRKDAMLST
hrv-54	ICSYYTHWTG	SLRFSFMFCG	TANTTLKVL	AYTPPGIKKP	ETRQKQAMLGT
hrv-54-f05	ICSYYTHWTG	SLRFSFMFCG	TANTTLKVL	AYTPPGIKKP	ETRQKQAMLGT
dq473511-55	IASYFTQWTG	SLRFSFLFCG	TANTTLKILV	AYTPPGIRKP	QTRREAMLGT
hrv-56	ICSYYTHWTG	SLRFSFMFCG	TANTTLKVLL	AYTPPGIKKP	ESRKQAMLGT
hrv-57	IASYYTHWTG	SLRFSFLFCG	TANTTLKLLL	AYTPPGIEKP	QSRKDAMLGT
hrv-58	IASYYTHWTG	SLRFSFMFCG	SASATLKLLI	AYTPPGVAKP	KSRKEAMLGT
dq473500-59	ICSYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIKKP	ENRKQAMLGT
hrv-60	ISSYYTQWTG	SLRFSFMFCG	TANTTLKLLI	AYTPPGIAKP	KSRKEAMLGT
hrv-61	VSSYYTHWTG	SVRFSFMFCG	SALTTLKLLI	AYTPPGIRVP	RNRKEAMLGT
hrv-62	IASYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIGEP	RDRKQAMLGT
hrv-63	ICSYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIKKP	ESRKQAMLGT
hrv-64	MSSYFTHWTG	SLRFSFMFCG	SAGTTLKLLI	AYTPPGIEKP	TKRKDAMLGT
ef173417-64	MSSYFTHWTG	SLRFSFMFCG	SAGTTLKLLI	AYTPPGIEKP	TKRKDAMLGT
hrv-65	IASYYTHWTG	SLRFSFMFCG	TANTSLKLLI	AYTPPGVAKP	TTRTMAMLGT
hrv-66	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIRKP	ENRKQAMLGT
hrv-67	IASYYTHWTG	SLRFSFMFCG	SASSTLKLLL	AYTPPGISKP	TSRKEAMLGT
hrv-68	IASYYTHWTG	SLRFSFMFCG	TANTSLKLLI	AYTPPGVPPK	GSRQKAMLST
hrv-71	ISSYYTHWTG	SIRFSFMFCG	TANTSLKLLI	AYTPPGVGKP	QNRTQAMLGT
dq473492-73	IASYYTHWTG	SLRFSFMFCG	SAFSTLKLLL	AYTPPGIAVP	DSRKKAMLGT
dq473494-74	ISSYFTHWTG	SLRFSFMFCG	TANSTLKLLL	AYTPPGIDKP	RSRKDAMLGT
dq473510-75	IASYYTHWTG	SLRFSFMFCG	SASATLKLLL	AYTPPGIAKP	TTRKQAMLGT
dq473502-76	IASYYTHWTG	SIRFSFLFCG	SANTTLKLLI	AYTPPGIRKP	KNRKEAMLGT
hrv-76	IASYYTHWTG	SIRFSFLFCG	SANTTLKLLI	AYTPPGIRKP	KNRKEAMLGT
hrv-77	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIKKP	ETRQKQAMLGT
hrv-78	IASYYTHWTG	SLRFSFMFCG	TANTTLKLLI	AYTPPGVPPK	DTRKKAMLGT
ef173418-78	IASYYTHWTG	SLRFSFMFCG	TANTTLKLLI	AYTPPGVPPK	DTRKKAMLGT
hrv-80	IASYYTHWTG	SIRFSFMFCG	SANTSLKLLI	AYTPPGVPPK	TSRREAMLGT
hrv-81	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGISKP	KNRKEAMLGT
hrv-81-f06	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGISKP	KNRKEAMLGT
hrv-81-f07	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGISKP	KNRKEAMLGT
hrv-82	IASYYTHWTG	SLRFSLMFCG	TAGTTLKLLV	AYTPPGIAKP	TNRKDAMLGT
dq473509-82	IASYYTHWTG	SLRFSLMFCG	TAGTTLKLLV	AYTPPGIAKP	ENRKDAMLGT
hrv-85	ICSYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIDKP	KNRKQAMLGT
pico-85	ICSYYTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIDKP	KNRKQAMLGT
dq473504-88	MSSYFTHWTG	SLRFSFMFCG	SASTTLKLLL	AYTPPGVGKP	TSRREAMLGT
a10937-89	LASYTHWTG	SLRFSFMFCG	SASSTLKLLI	AYTPPGVGKP	KSRREAMLGT
hrv-89	LASYTHWTG	SLRFSFMFCG	SASSTLKLLI	AYTPPGVGKP	KSRREAMLGT
hrv-89-f08	LASYTHWTG	SLRFSFMFCG	SASSTLKLLI	AYTPPGVGKP	RSRREAMLGT
hrv-89-f09	LASYTHWTG	SLRFSFMFCG	SASSTLKLLI	AYTPPGVGKP	RSRREAMLGT
m16248-89	LASYTHWTG	SLRFSFMFCG	SASSTLKLLI	AYTPPGVGKP	KSRREAMLGT
hrv-90	IASYYTHWTG	SIRFSFLFCG	TANTTLKLLL	AYTPPGIRKP	RDRREAMLGT
hrv-94	ISSYYTHWTG	SLRFSFMFCG	SAGTTLKLLI	AYTPPGIDKP	TKRKDAMLGT
ef173419-94	ISSYYTHWTG	SLRFSFMFCG	SAGTTLKLLI	AYTPPGIDKP	TKRKDAMLGT

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hrv-95	IASYYTHWTG	SIRLSFMFCG	SANSSLKLLI	AYTPPGAPEP	TKRKEAMLGT
hrv-96	IASYYTHWTG	SVRFSFMFCG	SALTTLKLLI	AYTPPGIRVP	ENRKEAMLGT
hrv-98	ICSYYTHWTG	SLRFSFMFCG	TANTTLKVL	AYTPPGIKKP	ENRKQAMLGT
hrv-100	IASYFTHWTG	SLRFSFMFCG	TANTTLKLLL	AYTPPGIRKP	TTRKQAMLGT
ef186077-qpm	VLNYYSNWSG	SIKLTFFCVC	DSFSTGKFLI	AYTPPGADIP	ESRRDAMLGT
ef077279-nat001	VLNYFSNWSG	SIKLTFFCVC	DSFSTGKFLI	AYTPPGAGIP	ETRRDAMLGV
ny1078	ILNYFSNWSG	SIKLTFLCVC	DSFSTGKFLI	AYTPPGASIP	ANRTDAMLGT
ef582385-c024	VLNYFANWSG	SISITFMCVC	DSFSTGKFLL	AYTPPGAALP	PDRKTAMLGV
ef077280-nat045	ILNYFSNWSG	SIRVTCICVC	DSFSTGKFLM	AYTPPGGGLP	TTRKEAMLGV
ef582387-c026	VLNYYSNWSG	SIKLTFFCVC	DSFSTGKFLI	AYTPPGADIP	ETRRDAMLGT
ef582386-c025	VLNYFSTWAG	SITLSFLCVC	DSFSTGKFLI	AYTPPGGGLP	KNRKEAMLGV
dq473485-03	IAQYYTHWSG	SLRISLMTG	PALSSAKIIL	AYTPPGTRGP	EDRKEAMLGT
ef173422-03	IAQYYTHWSG	SLRISLMTG	PALSSAKIIL	AYTPPGTRGP	EDRKEAMLGT
dq473490-04	ICQYFTHWAG	SLRSLFMYTG	PALSSAKLLI	AYTPPGTAGP	ADRRTAMLGT
hrv-05	LCQYFTHWAG	SLRSLFMYTG	PALSSAKLLI	AYTPPGAQGP	TKRKEAMLGT
dq473486-06	IAQYYTHWSG	SLRISLMTG	SALSSAKLIL	AYTPPGAQGP	TNRRDAMLGT
l05355-14	IVQYYTHWSG	SLRFSLMTG	PALSSAKLIL	AYTPPGARGP	QDRREAMLGT
k02121-14	IVQYYTHWSG	SLRFSSMYTG	PALSSAKLTL	AYTPPGARGP	QDRREAMLGT
ef173420-17	IAQYYTHWSG	SIRISLMTG	PALSSAKLIL	AYTPPGTKGP	KDRKEAMLGT
hrv-26	ICQYYTHWAG	SLRSLFMYTG	PALSSAKLLI	AYTPPGAEGP	TKRKDAMLGT
hrv-27	IAQYYTHWAG	SIRISFMYTG	PALSSAKLLL	AYTPPGAPGP	TNRKDAMLGT
ef173421-27	IAQYYTHWAG	SIRISFMYTG	PALSSAKLLL	AYTPPGAPGP	TNRKDAMLGT
dq473487-35	IAQYYTHWSG	SLKISLMTG	PALSSAKLIL	AYTPPGAPGP	ETRKDAMLGT
hrv-35	IAQYYTHWSG	SLKISLMTG	PALSSAKLIL	AYTPPGAPGP	ETRKDAMLGT
ef173423-37	IAQYYTHWSG	SLRISLMTG	PALSSAKLIL	AYTPPGAQGP	TNRKDAMLGT
hrv-42	LCQYFTHWAG	SLRSLFMYTG	PALSSAKLLI	AYTPPGAQGP	IKRKEAMLGT
dq473488-48	IAQYYTHWSG	SIRISLMTG	PALSSAKLIL	VYTPPGTEGP	KNRKEAMLGT
hrv-52	IAQYFTHWSG	SIRISLMTG	PALSSAKLIL	AYTPPGSGGP	KDRKEAMLGT
hrv-52-f10	IAQYFTHWSG	SIRISLMTG	PALSSAKLIL	AYTPPGAGGP	KDRKEAMLGT
ef173424-52	IAQYFTHWSG	SIRISLMTG	PALSSAKLIL	AYTPPGSGGP	KDRKEAMLGT
hrv-69	IAQYYSHWSG	SIRISLMTG	PALSSAKLIL	AYTPPGTKGP	KTRREAMLGT
dq473489-70	IAQYYTHWSG	SIRISLMTG	PALSSAKLIL	AYTPPGTEGP	KSRKEAMLGT
hrv-72	IVQYYTHWAG	SLRFSLMTG	PALSSAKLIL	SYTPPGANGP	TTRKEAMLGT
hrv-79	IVQYYTHWSG	SLRFSLMTG	PALSSAKLIL	AYTPPGAQGP	TSRKEAMLGT
hrv-83	IVQYYTHWSG	SLRISLMTG	PALSSAKLIL	AYTPPGAQGP	TTKKDAXLGT
hrv-84	IAQYYTHWAG	SLRVSFMYTG	PALSSAKLLI	AYTPPGAPGP	KTRKDAMLGT
hrv-86	IAQYYTHWAG	SLRFSLMTG	PALSSAKLIL	AYTPPGVAGP	KNRKEAMLGT
hrv-91	IAQYYTHWSG	SIRISLMTG	PALSSAKLIL	AYTPPGTEGP	KSRREAMLGT
hrv-92	IVQYYAHWSG	SLRISLMTG	PALSSAKLTL	AYTPPGAQGP	TSRKEAMLGT
ef173425-93	IAQYYTHWAG	SIRISFMYTG	PALSSAKLLL	AYTPPGALGP	TNRKDAMLGT
hrv-97	IAQYYTHWAG	SIRISFMYTG	PALSSAKLLV	AYTPPGAPGP	TTRKEAMLGT
hrv-99	LSQYFTHWAG	SLRSLFMYTG	PALSSARLLI	AYTPPGAQGP	TKRKDAMLGT

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annotation	BFBBBB...B	BBBBBGBB...	BBB...	HHHH.BBBBH	B...BBBB..
af499637-cva13	HVIWDIGLQS	SCTMVVPWIS	NTSYRRTVKD	DFTEGGYISM	FYQTRVVVPA
af546702-cva21	HIIWDLGLQS	SCSMVAPWIS	NTVYRRCARD	DFTEGGFITC	FYQTRIVVPA
v01149-pv1m	HVIWDIGLQS	SCTMVVPWIS	NTTYRQTIDD	SFTEGGYISV	FYQTRIVVPL
d00239-01	HVVWDVGLQS	TISLVVPWVS	ASHFRLTAND	KYSMAGYITC	WYQTNLVVPP
pico-01	HVVWDVGLQS	TISLVVPWVS	ASHFRLTADN	KYSMAGYITC	WYQTNLVVPP
hrv-01	HVVWDVGLQS	TISLVVPWVS	ASHFRLTADN	KYSMAGYITC	WYQTNLVVPP
x02316-02	HVIWDVGLQS	TISMVVPWIS	ASHYRNTSPG	R.STSGYITC	WYQTRLVIPP
hrv-07	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSAAGYITC	WYQTNFVVPP
dq473503-07	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSAAGYITC	WYQTNFVVPP
hrv-08	HIVWDVGLQS	TCSLIIPWVS	ASHFRNTTPD	TYSKAGFVTC	WYQTNFVTAP
pico-09	HVVWDVGLQS	TISMVVPWVS	ASHFRNTTPD	KYSLAGFITC	WYQTNLVVPA
hrv-09	HVVWDVGLQS	TISMVVPWVS	ASHFRNTTPD	KYSLAGFITC	WYQTNLVVPA
hrv-09-f01	HVVWDVGLQS	TISMVVPWVS	ASHFRNTTPD	KYSLAGFITC	WYQTNLVVPA

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hrv-09-f02	HVVWDVGLQS	TISMVVPWVS	ASHFRNTTPD	KYSLAGFITC	WYQTNLVVPA
dq473498-10	HIVWDIGLQS	TVSLVVPWVS	ASHFRYTPD	TYSAAGYITC	WYQTNFVFP
hrv-10	HIVWDIGLQS	TVSLVVPWVS	ASHFRYTPD	TYSAAGYITC	WYQTNFVFP
ef173414-11	HVVWDVGLQS	TISMVVPWVS	ASHYRNTTPD	TYSLAGFVTC	WYQTNLVVPP
ef173415-12	HLVWDVGLQS	TVSMIVPWVS	ASHFRFTTPD	TYSKAGYITC	WYQTNFVVP
hrv-13	HVIWDVGLQS	TVSMVVPWVS	ASHYRNTTPD	TYSAAGYITC	WYQTDLITPP
hrv-13-f03	HVIWDVGLQS	TVSMVVPWVS	ASHYRNTTPD	TYSAAGYITC	WYQTDLITPP
dq473493-15	HVVWDVGLQS	TISMIVPWVS	ASHFRNTTPD	TFSSAGYISC	WYQTNLVVPP
l24917-16	HVVWDVGLQS	TVSLVVPWIS	ASQYRFTTPD	TYSSAGYITC	WYQTNFVVP
hrv-18	HVVWDVGLQS	TISMVVPWVS	ASHFRNTTPD	TYSLAGYITC	WYQTNLIAPT
hrv-19	HVVWDVGLQS	TISMIVPWVS	ASHYRNTTPD	TFSLAGYITC	WYQTNLVTPP
hrv-20	HVVWDVGLQS	TVSMVVPWVS	ASHYRYTPD	TYSQAGYITC	WYQTNFIVPP
hrv-21	HVVWDVGLQS	TISMVVPWIS	ASHYRNTTPD	KYSSAGYITC	WYQTNLVVPP
hrv-22	HVVWDVGLQS	TISMIVPWIS	AXHFRNTTPD	TFSQAGYITC	WYQTSLVTPP
dq473497-23	HIIWDIGLQS	TISMVVPWIS	ASHYRNTSPD	V.STSGFITC	WYQTGLVIPP
hrv-24	HVVWDVGLQS	TISMVVPWVS	ASHFRNTTPD	KYSLAGYITC	WYQTNLVVPP
ef173416-24	HVVWDVGLQS	TISMVVPWVS	ASHFRNTTPD	KYSLAGYITC	WYQTNLVVPP
hrv-25	HIVWDVGLQS	TVSLVVPWVS	SSHFRYTSRD	EHAAGYITC	WYQTSLVFP
dq473508-28	HVVWDVGLQS	TVSLVVPWIS	ASHYRYTPD	TYSKAGYITC	WYQTNFIVPP
hrv-29	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTSSD	EHAAGYITC	WYQTQLVFP
dq473512-30	HVIWDIGLQS	TISMVVPWIS	ASHYRNTSPD	V.SPSGYITC	WYQTGLVIPP
hrv-30	HVIWDIGLQS	TISMVVPWIS	ASHYRNTSPD	V.SPSGYITC	WYQTGLVIPP
hrv-31	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTSRD	EHAAGYITC	WYQTNFVFP
hrv-32	HVVWDVGLQS	TISMIVPWVS	ASHFRNTTPD	KYSLAGFITC	WYQTNLVVPA
hrv-33	HVVWDVGLQS	TMSMVVPWVS	ASHFRNTTPD	TYSLAGYVTC	WYQTSLVVPS
hrv-34	HVVWDVGLQS	TMSMVVPWVS	ASHFRNTTPD	KYSLAGYITC	WYQTNLIAPQ
dq473501-34	HVVWDVGLQS	TMSMVVPWVS	ASHFRNTTPD	KYSLAGYITC	WYQTNLIAPQ
dq473505-36	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSSAGYITC	WYQTNFVVP
hrv-38	HIVWDVGLQS	TISMIVPWVS	ASHFRNTTPD	TYSLAGFITC	WYQTNLVVPP
dq473495-38	HIVWDVGLQS	TISMIVPWVS	ASHFRNTTPD	TYSLAGFITC	WYQTNLVVPP
ay751783-39	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTPD	TYSMAGYITC	WYQTNFVFP
hrv-40	HIVWDVGLQS	TISLVVPWVS	ASHFRYTPD	TYTAAGYITC	WYQTNFVFP
dq473491-41	HVIWDVGLQS	TVSMVVPWVS	ASHYRNTTPD	TYSSAGYITC	WYQTNLIIPP
hrv-43	HVVWDVGLQS	TISMIVPWIS	ASHFRNTTPD	AYSLAGYITC	WYQTNLVVPP
dq473499-44	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTSSD	ERSAAGYITC	WYQTQLVFP
hrv-45	HLVWDVGLQS	TCSLVIPWIS	ASHFRNTTPD	TYSKAGYVTC	WYQTNFITAP
dq473506-46	HLVWDVGLQS	TASMVIPWVS	ASHYRFTTPD	IYTLAGYVTC	WYQTNLVVAP
hrv-47	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTSRD	EHAAGYITC	WYQTNFVFP
dq473496-49	HVIWDVGLQS	TISMVVPWIS	ASHYRNTSPG	T.STSGYITC	WYQTRLVIPP
hrv-49-f04	HVIWDIGLQS	TISMVVPWIS	ASHYRNTSSG	A.STAGYVTC	WYQTRLVIPP
hrv-50	HVVWDVGLQS	TISMVVPWVS	ASHYRNTTPD	TYSLAGYITC	WYQTNLIAPP
hrv-51	HVVWDVGLQS	TVSMVVPWIS	ASHYRFTTPD	TYSQAGYITC	WYQTNFVTPP
dq473507-53	HVVWDVGLQS	TMSMVVPWVS	ASHYRYTPD	TYSKAGYITC	WYQTNFIVPP
hrv-54	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTPD	TYSAAGYITC	WYQTNFVFP
hrv-54-f05	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTPD	TYSAAGYITC	WYQTNFVFP
dq473511-55	HIVWDVGLQS	TVSMVVPWVS	ASHFRNTTPD	TYSLAGYITC	WYQTNLVVPP
hrv-56	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTPD	TYSAAGYITC	WYQTNFVFP
hrv-57	HVVWDVGLQS	TISMVVPWVS	ASHYRNTTPD	TYSQAGYITC	WYQTNLIVPP
hrv-58	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSSAGYITC	WYQTNFVVP
dq473500-59	HIVWDVGLQS	TISLVVPWVS	ASHFRYTPD	NYSSAGFITC	WYQTNFVFP
hrv-60	HIVWDVGLQS	TISMIVPWVS	ASHFRNTTPD	TYSSAGFITC	WYQTNLVFP
hrv-61	HLIWDVGLQS	TVSMVVPWVS	ASHYRNTTPD	TYSIAGFITC	WYQTKLVVPP
hrv-62	HIVWDVGLQS	TVSLVVPWVS	SSHFRYTSRD	EHAAGYITC	WYQTSLVFP
hrv-63	HIVWDVGLQS	TISLVVPWVS	ASHFRYTPD	NYSAGYITC	WYQTNFVFP
hrv-64	HVVWDVGLQS	TISMIVPWVS	ASHYRNTTPD	TFSQAGYITX	WYQTSLVTPP
ef173417-64	HVVWDVGLQS	TISMIVPWVS	ASHYRNTTPD	TFSQAGYITG	WYQTSLVTPP
hrv-65	HLVWDVGLQS	TVSMVVPWVS	ASHYRFTTPD	TYSQAGYITC	WYQTNFVVP
hrv-66	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTPD	TYSAAGYITC	WYQTNFVFP

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hrv-67	HVVWDVGLQS	TISMIVPWIS	ASHFRNTTPD	KYSLAGFITC	WYQTNLVVPA
hrv-68	HVVWDVGLQS	TVSMVVPWVS	ASHYRYTTPD	TYSQAGYITC	WYQTNFIVPP
hrv-71	HMIWDVGLQS	TVSMVVPWIS	ASNRYFTTPD	AYSQAGFITC	WYQTNFVPPP
dq473492-73	HVIWDVGLQS	TVSIVVPWVS	ASHYRNTTPD	TYSLAGYITC	WYQTKLVEPP
dq473494-74	HVVWDVGLQS	TISMIVPWVS	ASHFRNTTPD	TFSSAGFITC	WYQTNLVVPP
dq473510-75	HVVWDVGLQS	TISMIVPWVS	ASHFRNTTPD	TYSLAGYVTC	WYQTNLVVPP
dq473502-76	HVVWDVGLQS	TISMVVPWVS	ASHFRNTTPD	TYSLAGYVTC	WYQTNLVVPP
hrv-76	HVVWDVGLQS	TISMVVPWVS	ASHFRNTTPD	TYSLAGYVTC	WYQTNLVVPP
hrv-77	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTPD	TYSAGYITC	WYQTNFVPPP
hrv-78	HLVWDVGLQS	TVSLVVPWVS	ASHFRFTTPD	TYSKAGYITC	WYQTNFVPPP
ef173418-78	HLVWDVGLQS	TVSLVVPWVS	ASHFRFTTPD	TYSKAGYITC	WYQTNFVPPP
hrv-80	HLVWDVGLQS	TASMVVPWVS	ASHYRFTTPD	MYSLAGYITC	WYQTNLIVAP
hrv-81	HVVWDVGLQS	TVSLVVPWVS	ASQYRFTTPD	TYSXAGYITC	WYQTNFVPPP
hrv-81-f06	HVVWDVGLQS	TVSLVVPWVS	ASQYRFTTPD	TYSSAGYITC	WYQTNFVPPP
hrv-81-f07	HVVWDVGLQS	TVSLVVPWVS	ASQYRFTTPD	TYSSAGYITC	WYQTNFVPPP
hrv-82	HVVWDVGLQS	TISMIVPWVS	ASHFRNTTPD	KFSQAGYITC	WYQTALVTPP
dq473509-82	HVVWDVGLQS	TISMIVPWVS	ASHFRNTTPD	KFSQAGYITC	WYQTTLVTPP
hrv-85	HIVWDVGLQS	TISLVVPWVS	ASHFRYTPD	TYSAGYITC	WYQTNFVPPP
pico-85	HIVWDVGLQS	TISLVVPWVS	ASHFRYTPD	TYSRAGYITC	WYQTNFVPPP
dq473504-88	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSSAGYITC	WYQTNFVPPP
a10937-89	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSSAGYITC	WYQTNFVPPD
hrv-89	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSSAGYITC	WYQTNFVPPD
hrv-89-f08	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSSAGYITC	WYQTNFVPPD
hrv-89-f09	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSSAGYITC	WYQTNFVPPD
m16248-89	HLVWDVGLQS	TASLVVPWVS	ASHFRFTTPD	TYSSAGYITC	WYQTNFVPPD
hrv-90	HVVWDVGLQS	TISMVVPWVS	ASHYRNTTPD	KYSLAGFVTC	WYQTNLIVPP
hrv-94	HVVWDVGLQS	TISMIVPWVS	ASHYRNTTPD	KFSQAGYITC	WYQTSLVSP
ef173419-94	HVVWDVGLQS	TISMIVPWVS	ASHYRNTTPD	KFSQAGYITC	WYQTSLVSP
hrv-95	HIVWDVGLQS	TCSLIIPWVS	ASHFRNTTPD	TYSKAGFVTC	WYQTNFVTAP
hrv-96	HLIWDVGLQS	TVSMVVPWIS	ASHFRNTTPD	TYSLAGYITC	WYQTKLVAPP
hrv-98	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTPD	TYSAGYITC	WYQTNLVFPP
hrv-100	HIVWDVGLQS	TVSLVVPWVS	ASHFRYTPD	TYSAGYITC	WYQTNFVPPP
ef186077-qpm	HVVWDLGLQS	SCHLVVPWIS	SHFFRRTRKD	NYTESGFVTL	WHQTA FVSNG
ef077279-nat001	HVVWDLGLQS	SCHLVVPWIS	SHFFRRTKKD	DYTEGGFITL	WYQTA FVSNG
ny1078	HIIWDLGLQS	SCHMVIPWIS	SHFFRRTRKD	NFTEGGFVTL	WHQTA FVSNG
ef582385-c024	HVIWDLGLQS	SCTIVVPWMS	GTFHRRTKAD	NYTQAGYVSL	WYQTD FVSPN
ef077280-nat045	HVVWDLGLQS	SCTLVAPWMS	STFYRRTKGS	NYTSGGYITL	WYQTN FVATT
ef582387-c026	HVVWDLGLQS	SCHLVVPWIS	SHFFRRTRKD	NYTESGFVTL	WHQTA FVSNG
ef582386-c025	HVIWDLGLQS	TCTIVVPWIA	QGYRHTKAD	NYTESGYVTL	WYQTN FV . PG
dq473485-03	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDPD	TYTSAGYLSC	WYQTS LILPP
ef173422-03	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDPD	TYTSAGYLSC	WYQTS LILPP
dq473490-04	HVVWDIGLQS	TVVLNIPWTS	GVQFRYTDPD	TYTSAGFVSC	WYQTS LVLPP
hrv-05	HVVWDIGLQS	TVVLNIPWTS	GVQYRYTDPD	TYTSAGFVSC	WYQTS LVLPP
dq473486-06	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDPD	TYTSAGYLSC	WYQTS LILPP
l05355-14	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDPD	TYTSAGFLSC	WYQTS LILPP
k02121-14	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDPD	TYTSAGFLSC	WYQTS LILPP
ef173420-17	HVVWDVGLQS	TVVMNIPWTS	GVQFRYTDPD	TYTSAGYLSC	WYQTS LILPP
hrv-26	HVVWDIGLQS	TVVLNIPWTS	GVQYRYTDPD	TYTSAGYVSC	WYQTS LVLPP
hrv-27	HIIWDIGLQS	TIVMNIPWTA	GSQFRYTDPD	TYTHPGFISC	WYQTS LVLPP
ef173421-27	HIIWDIGLQS	TIVMNIPWTA	GSQFRYTDPD	TYTHPGFISC	WYQTS LVLPP
dq473487-35	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDKD	TYTSAGFLSC	WYQTS LILPP
hrv-35	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDKD	TYTSAGFLSC	WYQTS LILPP
ef173423-37	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDPD	TYTSAGYLSC	WYQTS LILPP
hrv-42	HVIWDIGLQS	TVVLNIPWTS	GVQFRYTDPD	TYTSAGFISC	WYQTS LVLPP
dq473488-48	HVVWDVGLQS	TVVMNIPWTS	GVQFRYTDPD	TYTSAGFLSC	WYQTS LILPP
hrv-52	HVVWDVGLQS	TVVMNIPWTS	GVQFRYTDPD	TYTSAGFLSC	WYQTS LILPP
hrv-52-f10	HVVWDVGLQS	TVVMNIPWTS	GVQFRYTDPD	TYTSAGFLSC	WYQTS LILPP
ef173424-52	HVVWDVGLQS	TVVMNIPWTS	GVQFRYTDPD	TYTSAGFLSC	WYQTS LILPP

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hrv-69	HVVWDVGLQS	TVVMNIPWTS	GVQFRYTDPD	TYTSAGHLSC	WYQTSILILPP
dq473489-70	HVVWDVGLQS	TVVMNIPWTS	GVQFRYTDPD	TYTSAGHLSC	WYQTSILILPP
hrv-72	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDPD	TYTSAGFLSC	WYQTSILILPP
hrv-79	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDKD	TYTSAGFLSC	WYQTSILILPP
hrv-83	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDKD	TYTSAGFLSC	WYQTSILILPP
hrv-84	HLVWDIGLQS	TVVMNIPWTS	GSQFRYTDPD	TYTHPGYISC	WYQTSILILPP
hrv-86	HVVWDIGLQS	TIIMNIPWTS	GVQFRYTDPD	TYTSAGHLSC	WYQTSILILPP
hrv-91	HVVWDVGLQS	TVVMNIPWTS	GVQFRYTDPD	TYTSAGHLSC	WYQTSILILPP
hrv-92	HVVWDIGLQS	TIVMTIPWTS	GVQFRYTDKD	TYTSAGFLSC	WYQTSILILPP
ef173425-93	HVIWDIGLQS	TVVMNIPWTA	GAQFRYTDPD	TYTHPGFISC	WYQTSILVLP
hrv-97	HVVWDIGLQS	TVVMNIPWTA	GAQFRYTDPD	TYTHPGYVSC	WYQTSILVLP
hrv-99	HVVWDIGLQS	TVVLNIPWTS	GVQFRYTDPD	TYTSAGFVSC	WYQTSILVLP
551					
annotation	BBBBB	IBBBB...BB	BBB.....	QNP.	.....
af499637-cva13	STPTSMDILC	FISACNDFTV	RLLRDTTHIT	QS.ALPQGLE	DLIQQVASNA
af546702-cva21	STPTSMFMLG	FVSACPDFSV	RLRKDTPHIS	QSKLIGRTQG	IEDLIDTAIK
v01149-pv1m	STPREMDILG	FVSACNDFSV	RLLRDTTHIE	QK.ALAQGLG	QMLESMDINT
d00239-01	NTPQTADMLC	FVSACKDFCL	RMARDTDLHI	QSGPIEQNPV	ENYIDEVLNE
pico-01	STPQTADMLC	FVSACKDFCL	RMARDTDLHI	QSGPIEQNPV	ENYIDEVLNE
hrv-01	STPQTADMLC	FVSACKDFCL	RMARDTDLHI	QSGPIEQNPV	ENYIDEVLNE
x02316-02	QTPPTARLLC	FVSGCKDFCL	RMARDTNLHL	QSGAIAQNPV	ENYIDEVLNE
hrv-07	NTPRSAKMVC	MVSACKDFCL	RLARDTNLHM	QEGVLEQNPV	ENYVDSLLNE
dq473503-07	NTPRSAKMVC	MVSACKDFCL	RLARDTNLHM	QEGVLEQNPV	ENYVDSLLNE
hrv-08	DAPTTADIIC	LVSACKDFCL	RMARDTDQHT	QVGAITQNPV	EQFTEAVLNE
pico-09	DTPTTANLLC	FVSACKDFCL	RMARDTNLHK	QSGPITQNPV	ENYIDQVLNE
hrv-09	DTPTTANLLC	FVSACKDFCL	RMARDTNLHK	QSGPITQNPV	ENYIDQVLNE
hrv-09-f01	DTPTTANLLC	FVSACKDFCL	RMARDTNLHK	QSGPITQNPV	ENYIDQVLNE
hrv-09-f02	DTPTTANLLC	FVSACKDFCL	RMARDTNLHK	QSGPITQNPV	ENYIDQVLNE
dq473498-10	NTPSTADMLC	FVSACKDFCL	RMARDTNMHI	QSDAITQNPV	ENYIDNVLNE
hrv-10	NTPSTADMLC	FVSACKDFCL	RMARDTNMHI	QSDAITQNPV	ENYIDNVLNE
ef173414-11	STPTTAKMLC	FVSGCKDFCL	RMARDTNLHL	QSGPIEQNPV	EDYVDGILNE
ef173415-12	GTPNSANMLC	FVSACKDFCL	RMARDTDLHS	QDTPITQNPV	ERYVDEVLENE
hrv-13	NTAPVADMIC	FVSGCKDFCL	RMARDTNLHK	QSGVIAQNPV	ERYVDEVLENE
hrv-13-f03	NTAPVADMIC	FVSGCKDFCL	RMARDTNLHK	QSGVIAQNPV	ERYVDEVLENE
dq473493-15	NTPTTAKMLC	FVSGCKDFCL	RMARDTDLHK	QRGNITQNPV	ENYIDEVLNE
l24917-16	NTPNTAEMLC	FVSGCNHFCL	RMARDTDLHK	QTGPITQNPV	ERYVDEVLENE
hrv-18	NAPQTARMLC	FVSACKDFCL	RMARDTNLHT	QSGTIEQNPV	ENYIDEVLNE
hrv-19	NTPSTARMLC	FVSGCKDFCL	RMARDTNLHK	QTGTITQNPV	EKYVDITLNE
hrv-20	NTPREADIIC	FVSGCKDFCL	RMARDTNLHT	QVGVMEQNPV	ERYTEAILNE
hrv-21	NTPTSAMKMLC	FVSGCKDFCL	RMARDTSLHK	QSAPITQNPV	ENYIDEVLNE
hrv-22	STPETARMLC	FVSGCKDFCL	RMARDTNLHK	QIGAITQNPV	EKYIDGVLNE
dq473497-23	DTPSTARLLC	FVSGCKDFCL	RMARDTNLHM	QKGIIAQNPV	ENYVDEVLENE
hrv-24	NTPTTAKMLC	FVSGCKDFCL	RMARDTNLHL	QSAPITQNPV	ENYIDEVLNE
ef173416-24	NTPTTAKMLC	FVSGCKDFCL	RMARDTNLHL	QSAPITQNPV	ENYIDEVLNE
hrv-25	NTPSTADMLC	FVSACKDFCL	RMARDTDMHV	QSEAIEQNPV	ENYVDQVLNE
dq473508-28	STPNSANIIC	FVSACKDFCL	RMARDTNLHT	QVGAITQNPV	EKYTEALLNE
hrv-29	NTPNTADMLC	FVSACKDFCL	RMARDTDMHI	HNEIITQNPV	ENYVDEVLENE
dq473512-30	ETPPTARLLC	FVSGCKDFCL	RMARDTSLHM	QKGVIEQNPV	ENFVDEVLSE
hrv-30	ETPPTARLLC	FVSGCKDFCL	RMARDTSLHM	QKGVIEQNPV	ENFVDEVLSE
hrv-31	NTPNTANMLC	FVSACKDFCL	RMARDTDMHI	QDDAITQNPV	ENYVEEVLNE
hrv-32	DTPATANLLC	FVSACKDFCL	RMARDTNLHK	QSGPITQNPV	ENYIDQVLNE
hrv-33	STPITAKMLC	FVSGCKDFCL	RMARDTNLHL	QSGIITQNPV	ENYIEEVLNE
hrv-34	NTPQTAKILC	FVSACKDFCL	RMARDTNLHK	QSGPIEQNPV	ENYIDEVLNE
dq473501-34	NTPQTAKILC	FVSACKDFCL	RMARDTNLHK	QSGPIEQNPV	ENYIDEVLNE
dq473505-36	STPDNAKMVC	MVSACKDFCL	RLARDTNLHM	QEGVLTQNPV	ENYIDNVLNE
hrv-38	DTPATARMLC	FVSGCKDFCL	RMARDTNLHK	QSGAITQNPV	EEYIDGVLNE
dq473495-38	DTPATARMLC	FVSGCKDFCL	RMARDTNLHK	QSGAITQNPV	EEYIDGVLNE

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ay751783-39	NTPNNANMIC	FVSGCKDFCL	RMARDTDMHV	QNVPIITQNPV	ENYIDEVLNE
hrv-40	NTPATADMLC	FVSACKDFCL	RMARDTDMHV	QNVPIITQNPV	ERYVDEVLENE
dq473491-41	NAAPVADMIC	FVSGCKDFCL	RMARDTNLHK	QSGVIEQNPV	ERYVDEVLENE
hrv-43	NTPSTAKMLC	FVSGCKDFCL	RMARDTNLHK	QSGAIVQNPV	ENYVDEILNQ
dq473499-44	NTPNTADMLC	FVSACKDFCL	RMARDTDMHT	HNEIITQNPV	ENYVDEVLENE
hrv-45	NTPPTADIIC	LVSACKDFCL	RMARDTNQHT	QLGAIEQNPV	EQFAEAVLDQ
dq473506-46	NTPTTARMIC	FVSGCKDFCL	RMARDTNLHS	QTGAITQNPV	EKYTEAVLNE
hrv-47	NTPNRADMLC	FVSACKDFCL	RMARDTDMHI	QNDAITQNPV	ENYVEEVLNE
dq473496-49	QTPATARLLC	FVSGCKDFCL	RMARDTNLHL	QSGVIEQNPV	EHYIDEVLNE
hrv-49-f04	QTPPTARLLC	FVSGCKDFCL	RMARDTNLHL	QSGPIEQNPV	EQYIDEVLNE
hrv-50	NTPSTARMLC	FVSGCKDFCL	RMARDTNLHT	QSGNIEQNPV	ENYIDEVLNE
hrv-51	STPKYADIIC	FVSGCKDFCL	RMARDTNLHS	QTVNITQNPV	EKYTEALLNE
dq473507-53	STPNSADIIC	FVSGCKDFCL	RMARDTNLHT	QVGAITQNPV	EKYTEAILNE
hrv-54	NTPNSADMLC	FVSACKDFCL	RMARDTDMHV	QNVPIEQNPV	ERYVDEVLENE
hrv-54-f05	NTPNNADMLC	FVSACKDFCL	RMARDTDMHV	QNVPIEQNPV	EKYVDEVLENE
dq473511-55	NTPTTARMIC	FVSGCKDFCL	RMARDTNLHL	QSAPITQNPV	ERYVDEVLENE
hrv-56	NTPNTADMLC	FVSACKDFCL	RMARDTDMHV	QNVPIITQNPV	ERYVDDVLNE
hrv-57	NTPTTARMIC	FVSGCKDFCL	RMARDTNLHM	QSMPIITQNPV	ENFVDEVLENE
hrv-58	NTPANAKMAC	MVSACKDFCL	RLARDTNLHM	QDGVLTQNPV	ENYIDNVLENE
dq473500-59	NTPSSADMLC	FVSACKDFCL	RMARDTDHT	QIVPIITQNPV	ENYVNDVLNE
hrv-60	DTPTTARMIC	FVSGCKDFCL	RMARDTNLHK	QSGIITQNPV	ESYIDGVLNE
hrv-61	NTASTADMLC	FVSGCKDFCL	RMARDTNLHK	QSGPIEQNPV	ERYVDEVLENE
hrv-62	NTPGTADMLC	FVSACKDFCL	RMARDTDMHT	QSDAIEQNPV	ENYVDQVLNE
hrv-63	NTPNSADMLC	FVSACKDFCL	RMARDTDMHV	QNVPIITQNPV	ENYVNDVLNE
hrv-64	STPQTARMLC	FVSGCKDFCL	RMARDTNLHK	QIGAITQNPV	EQYIDGVLNE
ef173417-64	STPQTARMLC	FVSGCKDFCL	RMARDTNLHK	QIGAITQNPV	EQYIDGVLNE
hrv-65	NTPTTANIIC	FVSGCKDFCL	RMARDTNLHS	QTVNITQNPV	EKYTEALLNE
hrv-66	NTPSTADMLC	FVSACKDFCL	RMARDTDMHV	QNDAITQNPV	EDYVEGVLNE
hrv-67	NTPTTANLLC	FVSACKDFCL	RMARDTNLHK	QTGPITQNPV	EDYVDQVLNE
hrv-68	NTPNTADIIC	FVSGCKDFCL	RMARDTNLHT	QAGVIEQNPV	EKYTEAVLNE
hrv-71	NTPKTANIIC	FVSGCKDFCL	RMARDTNLHS	QTVNIEQNPV	EKYTEAILNE
dq473492-73	NTTPVADMIC	FVSGCKDFCL	RMARDTNLHK	QSGVIAQNPV	ERYVDEVLENE
dq473494-74	NTPVTARMLC	FVSGCKDFCL	RMARDTDLHK	QRGNITQNPV	ENYIDEVLNE
dq473510-75	NTPPNAKMLC	FVSGCKDFCL	RMARDTNLHK	QSGVIEQNPV	ENYVDEILNQ
dq473502-76	NTPTTAKMLC	FVSGCKDFCL	RMARDTNLHL	QSGPITQNPV	ENYVDEILNE
hrv-76	NTPTTAKMLC	FVSGCKDFCL	RMARDTNLHL	QSGPITQNPV	ENYVDEILNE
hrv-77	NTPNTADMLC	FVSACKDFCL	RMARDTDMHI	QNDAITQNPV	EDYIDNVLENE
hrv-78	GTPNTANMLC	FVSGCKDFCL	RMARDTDLHV	QTPITQNPV	EEYVDQVLNE
ef173418-78	GTPNTANMLC	FVSGCKDFCL	RMARDTDLHV	QTPITQNPV	EEYVDQVLNE
hrv-80	NTPSTARMIC	FVSGCKDFCL	RMARDTNLHV	QTGPITQNPV	EKYTEAILNE
hrv-81	NTPNTAEMLC	FVSGCKDFCL	RMARDTDLHK	QSGPITQNPV	ERYVDEVLENE
hrv-81-f06	NTPNTAEMLC	FVSGCKDFCL	RMARDTDLHK	QSGPIEQNPV	ERYVDEVLENE
hrv-81-f07	NTPNTAEMLC	FVSGCKDFCL	RMARDTDLHK	QSGPIEQNPV	ERYVDEVLENE
hrv-82	STPATARMLC	FVSGCKDFCL	RMARDTNLHK	QIGPITQNPV	EKYVDSVLNE
dq473509-82	STPATARMLC	FVSGCKDFCL	RMARDTNLHK	QVGPITQNPV	EKYVDSVLNE
hrv-85	NTPATADMLC	FVSACKDFCL	RMARDTDMHV	QDVPITQNPV	EKYVDEVLENE
pico-85	NTPATADMLC	FVSACKDFCL	RMARDTDMHV	QDVPITQNPV	EKYVDEVLENE
dq473504-88	GTPKNAKMVC	MVSACKDFCL	RLARDTNLHM	QEGVLTQNPV	ENYVDNLLNE
a10937-89	STPDNAKMVC	MVSACKDFCL	RLARDTNLHT	QEGVLTQNPV	ENYIDSVLNE
hrv-89	STPDNAKMVC	MVSACKDFCL	RLARDTNLHT	QEGVLTQNPV	ENYIDSVLNE
hrv-89-f08	STPDNAKMVC	MVSACKDFCL	RLARDTNLHT	QEGVLTQNPV	ENYIDSVLNE
hrv-89-f09	STPDNAKMVC	MVSACKDFCL	RLARDTNLHT	QEGVLTQNPV	ENYIDSVLNE
m16248-89	STPDNAKMVC	MVSACKDFCL	RLARDTNLHT	QEGVLTQNPV	ENYIDSVLNE
hrv-90	NTPTTAKMLC	FVSGCKDFCL	RMARDTNLHL	QSGPITQNPV	ENYIDEVLNE
hrv-94	STPQQARMLC	FVSGCKDFCL	RMARDTNLHK	QIGAITQNPV	EKYIDGVLNE
ef173419-94	STPQQARMLC	FVSGCKDFCL	RMARDTNLHK	QIGAITQNPV	EKYIDGVLNE
hrv-95	DAPTTADIIC	LVSACKDFCL	RMARDTDQHT	QVGAITQNPV	EQFTEAVLNE
hrv-96	NTPTTADMLC	FVSGCKDFCL	RMARDTNLHK	QSGPIAQNPV	ERYVDEVLENE

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hrv-98	NTPNSADMLC	FVSACKDFCL	RMARDTDMHV	QEVPIEQNPV	ERYVDEVLENE
hrv-100	NAPNTADMLC	FVSACKDFCL	RMARDTDMHI	QNDAIQQNPV	ENYVEGVLNE
ef186077-qpm	...TSGSIMV	TCSACSDMSV	RMLRDTPMK	QEDNITQNPV	EEFVEHTLKE
ef077279-nat001	..GATGAIMV	TCSACSDMSV	RMLRDTPMQ	QDENIAQNPV	EEFVDHTLQK
ny1078	...QVGSIMV	TCSACSDMSV	RMLRDTPMK	QEINIAQNPV	EKFIDQTLKE
ef582385-c024	..DGIGTIVA	TCSGCPDLSV	RMLRDTPMK	QEKDLTQNPV	EDYIDKVVDT
ef077280-nat045	T.GGTGTIIA	TCSACPDLV	RMMRDTPMK	QPENNIQNPV	DNFVDEVLEKE
ef582387-c026	...TTGSIMV	TCSACSDMSV	RMLRDTPMR	QDEDITQNPV	EEFVEHTLKE
ef582386-c025	SAIAQGSILV	TCSACPDMAV	RMLRDTPMIT	QDKNTLQNPV	EQFVDNVLEE
dq473485-03	QTSGQVYLLS	FISACPDFKL	RLMKDTQTIS	QTDALTEGLS	DELEEVIVEK
ef173422-03	QTSGQVYLLS	FISACPDFKL	RLMKDTQTIS	QTDALTEGLS	DELEEVIVEK
dq473490-04	QVEQTVYMLG	FVSACPDFKL	RLMKDTQSIQ	QETALTEGLG	EDLMEVIVDK
hrv-05	QTQQTVYMLG	FISACPDFKL	RLMKDTQSIH	QETALTEGLE	DDLVEVIVDK
dq473486-06	NTTGQVHLLS	FISACPDFKL	RLMKDTQTIS	QTDALTEGLG	DELEEVIVEK
l05355-14	ETTGQVYLLS	FISACPDFKL	RLMKDTQTIS	QTDALTEGLG	DELEEVIVEK
k02121-14	ETTGQVYLLS	FISACPDFKL	RLMKDTQTIS	QTDALTEGLG	DELEEVIVEK
ef173420-17	DTTGTVYLLA	FISACPDFKL	RLMKDTQTIS	QTEALMEGFE	DELEEVVIDK
hrv-26	QSQQTVCLLG	FISACPDFKL	RLMKDTQSIY	QDSALTEGLE	DDLVEVIVDK
hrv-27	DTNQKVFIIIG	FVSACPDFKL	RLLKDTSSIS	QTEALTEGLG	EELEEVIVDK
ef173421-27	DTNQKVFIIIG	FVSACPDFKL	RLLKDTSSIS	QTEALTEGLG	EELEEVIVDK
dq473487-35	QTQGQVYLLS	FISACPDFKL	RLMKDTQTIS	QTDALPEGLG	EELEEVIVEK
hrv-35	QTQGQVYLLS	FISACPDFKL	RLMKDTQTIS	QTDALPEGLG	EELEEVIVEK
ef173423-37	NTAGQVYLLS	FISACPDFKL	RLMKDTQTIS	QTDALTEGLG	DELEEVIVEK
hrv-42	QTQQTVYILG	FISACPDFKL	RLMKDTQSIH	QETALTEGLE	DELMEVIVDK
dq473488-48	DTSGAVYLLA	FVSACPDFKL	RLMKDTQTIS	QTEALTEGFE	EELEEVVVDK
hrv-52	ETSGTVYLLA	FVSACPDFKL	RLMKDTQTIS	QTEALTEGFG	EELEEVVVDK
hrv-52-f10	ETSGTVYLLA	FVSACPDFKL	RLMKDTQTIS	QTEALTEGLG	EELEEVVVDK
ef173424-52	ETSGTVYLLA	FVSACPDFKL	RLMKDTQTIS	QTEALTEGFG	EELEEVVVDK
hrv-69	DTAGTVYLLA	FISACPDFKL	RLMKDTQTIS	QTEALTEGLG	EELEEVVIDK
dq473489-70	DTTGTVYLLA	FISACPDFKL	RLMKDTQTIS	QTEALMEGFE	GELEEVVIDK
hrv-72	DTPTEVYMLS	FISACPDFKL	RLMKDTQTIS	QTDALTEGLN	DELEEVIVEK
hrv-79	QTAGKVYLLS	FISACPDFKL	RLMKDTQTIS	QTTALTEGLN	DELEEVIVEK
hrv-83	ETSGTVYLLS	FVSACPDFKL	RLMKDTQTIS	QTSALTEGLN	DELEEVIVEK
hrv-84	ETNQTVYLLG	FISACPDFKL	RLMKDTSSIS	QERALTEGLE	DVLEEVIVDK
hrv-86	QTSGTAYLLS	FISACPDFKL	RLMKDTQTIS	QTDALTEGLG	DELEEVIVEK
hrv-91	DTTGAVHLLA	FISACPDFKL	RLXKDTQTIS	QTEALTEGFE	GELEEVVIDK
hrv-92	QTAGTVYLLS	FISACPDFKL	RLMKDTQTIS	QTTALTEGLN	DELEEVIVEK
ef173425-93	GTNQNVYILG	FVSACPDFKL	RLLKDTSSIS	QTEALTEGLG	QELEEVIVDK
hrv-97	ETNQSVYILG	FISACPDFKL	RLMKDTSSIS	QSEALTEGLG	EELEEVIVDK
hrv-99	QTQQTVYILG	FVSACPDFKL	RLMKDTQSIY	QTDALTEGLE	EDLVEVIVDK

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annotation				HHHH	H.....HHHH
af499637-cva13	LQLSQPTRPA	LPPAEQSVPN	TNQTTPEHSK	EVPALTAVET	GATNPLEPGD
af546702-cva21	NALRVSQ...	.PPSTQS...	TEATSGVNSQ	EVPALTAVET	GASGQAIPSD
v01149-pv1m	VRETVGA...	.ATSRDALPN	TEASGPTHSK	EIPALTAVET	GATNPLVPSD
d00239-01	VLV.....	VPN	IKESHHTTSN	SAPLLDAAET	GHTSNVQPED
pico-01	VLV.....	VPN	IKESHHTTSN	SAPLLDAAET	GHTSNVQPED
hrv-01	VLV.....	VPN	IKESHHTTSN	SAPLLDAAET	GHTSNVQPED
x02316-02	VLV.....	VPN	INSSNPTTSN	SAPALDAAET	GHTSSVQPED
hrv-07	VLV.....	VPN	IQPSTSVSSH	SVPALDAAET	GHTSSVQPED
dq473503-07	VLV.....	VPN	IQPSTSVSSH	SVPALDAAET	GHTSSVQPED
hrv-08	VLV.....	VPN	TQASNGSIAN	SAPALDAAET	GHTSSVQPED
pico-09	VLV.....	VPN	IKESNPTTSN	SAPALDAAET	GHTSNVQPED
hrv-09	VLV.....	VPN	IKESNPTTSN	SAPALDAAET	GHTSNVQPED
hrv-09-f01	VLV.....	VPN	IKESNPTTSN	SAPALDAAET	GHTSNVQPED
hrv-09-f02	VLV.....	VPN	IKESNPTTSN	SAPALDAAET	GHTSNVQPED
dq473498-10	VLV.....	VPN	IRESHPSTSN	SAPILDAAET	GHTSSVQPED

TableS3.hrvPro.Nov6.txt

hrv-10	VLV.....	.....	VPN	IRESHPSTSN	SAPILDAAET	GHTSSVQPED
ef173414-11	VLV.....	.....	VPN	IKESQATTSN	SAPALDAAET	GHTSKVQPED
ef173415-12	VLV.....	.....	VPN	INKSNGQLSN	AAPALDAAET	GHTSQTQPED
hrv-13	VLV.....	.....	VPN	ISESSSTTSN	SAPALDAAET	GHTSSVQPED
hrv-13-f03	VLV.....	.....	VPN	ISESKPTTSN	SAPALDAAET	GHTSSVQPED
dq473493-15	VLV.....	.....	VPN	IKESHSSTSN	SAPALDAAET	GHTSSVQPED
l24917-16	VLV.....	.....	VPN	INQSHPTTSN	AAPVLDAET	GHTNKIQPED
hrv-18	VLV.....	.....	VPN	VNESHAIITSN	SAPALDAAET	GHTSNVQPED
hrv-19	VLV.....	.....	VPN	INESHPTSN	AAPALDAAET	GHTSNVQPED
hrv-20	VLV.....	.....	VPN	ITSSNSQTSN	AAPALDAAET	GHTNQVQPED
hrv-21	VLV.....	.....	VPN	IRESHGTTSN	SAPALDAAET	GHTSNVQPED
hrv-22	VLV.....	.....	VPN	TNEXPSTSN	AAPALDAAET	GHTSNVQPED
dq473497-23	VLV.....	.....	VPN	INSSHPTTSN	SAPALDAAET	GHTSNVQPED
hrv-24	VLV.....	.....	VPN	IKESKPSTSN	SAPALDAAET	GHTSSVQPED
ef173416-24	VLV.....	.....	VPN	IKESKPSTSN	SAPALDAAET	GHTSSVQPED
hrv-25	VLV.....	.....	VPN	IKESHPSTSN	SAPILDAAET	GHTSNVQPED
dq473508-28	VLV.....	.....	VPN	INPSNAQTTN	AAPALDAAET	GHTSQTQPED
hrv-29	VLV.....	.....	VPN	IRESHPSTSN	SAPILDAAET	GHTSNVQPED
dq473512-30	VLV.....	.....	VPN	INSSHPTTSN	SAPALDAAET	GHTSNVQPED
hrv-30	VLV.....	.....	VPN	INSSHPTTSN	SAPALDAAET	GHTSNVQPED
hrv-31	VLV.....	.....	VPN	IKESHPSTSN	SAPILDAAET	GHTSNVQPED
hrv-32	VLV.....	.....	VPN	IKESNPTTSN	SAPALDAAET	GHTSNVQPED
hrv-33	VLV.....	.....	VPN	IRESQATTSN	SAPALDAAET	GHTNNVQPED
hrv-34	VLV.....	.....	VPN	IKESQATTSN	SAPALDAAET	GHTSSVQPED
dq473501-34	VLV.....	.....	VPN	IKESQATTSN	SAPALDAAET	GHTSSVQPED
dq473505-36	VLV.....	.....	VPN	IQPSSSVSSH	SAPALDAAET	GHTSSVQPED
hrv-38	VLV.....	.....	VPN	IKESHSSTSN	SAPALDAAET	GHTSNVQPED
dq473495-38	VLV.....	.....	VPN	IKESHSSTSN	SAPALDAAET	GHTSNVQPED
ay751783-39	VLV.....	.....	VPN	IRESHPTTSN	AATALDAAET	GHTSSIQPED
hrv-40	VLV.....	.....	VPN	IRESHPTTSN	SAPALDAAET	GHTSNIQPED
dq473491-41	VLV.....	.....	VPN	ISESSPTTSN	SAPALDAAET	GHTSNVQPED
hrv-43	VLV.....	.....	VPN	TVESHSTTSN	AAPALDAAET	GHTSQVQPED
dq473499-44	VLV.....	.....	VPN	IRESHPSTSN	SAPILDAAET	GHTSNVQPED
hrv-45	VLV.....	.....	VPN	TRPSDGLIAN	SAPALDAAET	GHTSSVQPED
dq473506-46	VLV.....	.....	VPN	INASSGHTSN	SAPALDAAET	GHTSQIQPED
hrv-47	VLV.....	.....	VPN	IKESHPSTSN	SAPILDAAET	GHTSNVQPED
dq473496-49	VLV.....	.....	VPN	INSSHPTTSN	SAPALDAAET	GHTSNVQPED
hrv-49-f04	VLV.....	.....	VPN	INSSHPTTSN	SAPALDAAET	GHTSNVQPED
hrv-50	VLV.....	.....	VPN	IKESQATTSN	SAPALDAAET	GHTSNVQPED
hrv-51	VLV.....	.....	VPN	IQPSSGHTSN	AAPALDAAET	GHTSQVQPED
dq473507-53	VLV.....	.....	VPN	INASNPTQTSN	SAPALDAAET	GHTSQTQPED
hrv-54	VLV.....	.....	VPN	IRESHPATSN	SAPALDAAET	GHTSGIQPED
hrv-54-f05	VLV.....	.....	VPN	IRESHPATSN	SAPALDAAET	GHTSGIQPED
dq473511-55	VLV.....	.....	VPN	IRESQAATSN	SAPVLDAET	GHTSNVQPED
hrv-56	VLV.....	.....	VPN	IRESHPSTSN	SAPALDAAET	GHTSAIQPED
hrv-57	VLV.....	.....	VPN	IKQSQATTSN	SAPALDAAET	GHTSNVQPED
hrv-58	VLV.....	.....	VPN	IQPSTSVSSH	SVPALDAAET	GHTSSVQPED
dq473500-59	VLV.....	.....	VPN	IQESHPTTSN	AAPALDAAET	GHTSSIQPED
hrv-60	VLV.....	.....	VPN	IRESQPTTSN	SAPALDAAET	GHTSNVQPED
hrv-61	VLV.....	.....	VPN	INQSNPTTSN	SAPVLDAET	GHTSNVQPED
hrv-62	VLV.....	.....	VPN	IKESHPSTSN	SAPILDAAET	GHTSNVQPED
hrv-63	VLV.....	.....	VPN	IQESHPTTSN	AAPVLDAET	GHTSSIQPED
hrv-64	VLI.....	.....	VPN	INESHPTSN	AAPALDAAET	GHTSNVQPED
ef173417-64	VLI.....	.....	VPN	INESHPTSN	AAPALDAAET	GHTSNVQPED
hrv-65	VLV.....	.....	VPN	IQASNGHTSN	AAPALDAAET	GHTSQVQPED
hrv-66	VLV.....	.....	VPN	IKESHPSTSN	AAPILDAAET	GHTSKVQPED
hrv-67	VLV.....	.....	VPN	IKQSEPTTSN	SAPALDAAET	GHTSSVQPED
hrv-68	VLV.....	.....	VPN	IPASNTQTSN	AAPALDAAET	GHTNQVQPED

TableS3.hrvPro.Nov6.txt

hrv-71	VLV.....	VPN	IQPSNGHTSN	SAPALDAAET	GHTNQVQPED
dq473492-73	VLV.....	VPN	INESNPTTSN	SAPALDAAET	GHTSGVQPED
dq473494-74	VLV.....	VPN	IRESHSSTSN	SAPALDAAET	GHTSNVQPED
dq473510-75	VLV.....	VPN	TMESHPTTSN	AAPALDAAET	GHTSHVQPED
dq473502-76	VLV.....	VPN	IKESQATTSN	AAPALDAAET	GHTSSVQPED
hrv-76	VLV.....	VPN	IKESQATTSN	AAPALDAAET	GHTSSVQPED
hrv-77	VLV.....	VPN	TKESHPTSN	SAPILDAAET	GHTSSVQPED
hrv-78	VLV.....	VPN	IKESKPQSSN	SAPVLDAET	GHTNQVQPED
ef173418-78	VLV.....	VPN	IKESKPQSSN	SAPVLDAET	GHTNQVQPED
hrv-80	VLV.....	VPN	ISASNGHTSN	SAPTLDAET	GHTSQVQPED
hrv-81	VLV.....	VPN	INESHPTTSN	SAPVLDAET	GHTSNIQPED
hrv-81-f06	VLV.....	VPN	INESHPTTSN	AAPVLDAET	GHTSNIQPED
hrv-81-f07	VLV.....	VPN	INESHPTTSN	AAPVLDAET	GHTSNIQPED
hrv-82	VLV.....	VPN	INESHPSTSN	SAPALDAAET	GHTSTVQPED
dq473509-82	VLV.....	VPN	INESHPSTSN	SAPALDAAET	GHTSTVQPED
hrv-85	VLV.....	VPN	IKESHPTTSN	SAPALDAAET	GHTSSIQPED
pico-85	VLV.....	VPN	IKESHPTTSN	SAPALDAAET	GHTSSIQPED
dq473504-88	VLV.....	VPN	IQPSTSVSSH	SVPALDAAET	GHTSSVQPED
a10937-89	VLV.....	VPN	IQPSTSVSSH	AAPALDAAET	GHTSSVQPED
hrv-89	VLV.....	VPN	IQPSTSVSSH	AAPALDAAET	GHTSSVQPED
hrv-89-f08	VLV.....	VPN	IQPSTSVSSH	AAPALDAAET	GHTSSVQPED
hrv-89-f09	VLV.....	VPN	IQPSTSVSSH	AAPALDAAET	GHTSSVQPED
m16248-89	VLV.....	VPN	IQPSTSVSSH	AAPALDAAET	GHTSSVQPED
hrv-90	VLV.....	VPN	IKESKPSTSN	SAPALDAAET	GHTSDVQPED
hrv-94	VLV.....	VPN	INESHPSTSN	AAPALDAAET	GHTSNVQPED
ef173419-94	VLV.....	VPN	INESHPSTSN	AAPALDAAET	GHTSNVQPED
hrv-95	VLV.....	VPN	TQASNGSIAN	SAPALDAAET	GHTSSVQPED
hrv-96	VLV.....	VPN	INESYPTTSN	SAPVLDAET	GHTSNVQPED
hrv-98	VLV.....	VPN	IKESHPATSN	SAPTLDAET	GHTSGIQPED
hrv-100	VLV.....	VPN	IRESHPTSN	SAPILDAAET	GHTSNVQPED
ef186077-qpm	VLV.....	VPD	TQASGPVHTT	KPQALGAVEI	GATADVGPET
ef077279-nat001	VMA.....	VPD	TQASGPTHNT	KPQTLGALEI	GATAEIGPET
ny1078	VLV.....	VPD	TQASGPVHTT	KPQALGAVEI	GATADVGPET
ef582385-c024	VLQ.....	VPN	TQPSGPHQSI	QPSALGAMEI	GASSTTIPGD
ef077280-nat045	VLV.....	VPD	TKPSGPTHNT	KPTVLNAMEI	GVTDPATPES
ef582387-c026	VLV.....	VPD	TQASGPVHTT	KPQALGAVEI	GATADVGPET
ef582386-c025	VLV.....	VPN	TQPSGPIHTT	KPTALSAMEI	GASSDVKPED
dq473485-03	TKQ.....	TLA	SVSSGPKHTQ	SVPALTANET	GATLPTTPSD
ef173422-03	TKQ.....	TLA	SVSSGPKHTQ	SVPALTANET	GATLPTTPSD
dq473490-04	THQ.....	TLA	SVKSDSKHTQ	KVPALTANET	GATLPTTPSD
hrv-05	AQQ.....	TLA	SIKSDSKHTQ	KVPSLTANET	GATLPTTPSD
dq473486-06	TKQ.....	TLA	SVSSGPKHTQ	SVPILTANET	GATMPTNPSP
l05355-14	TKQ.....	TVA	SISSGPKHTQ	KVPILTANET	GATMPVLPSD
k02121-14	TKQ.....	TVA	SISSGPKHTQ	KVPILTANET	GATMPVLPSD
ef173420-17	MKQ.....	VTA	SSQSGPKHTQ	KVPALSANET	GATLPTNPSP
hrv-26	TQQ.....	ALA	SIKSGSKHTQ	KAPALTANET	GATMPTTPSD
hrv-27	AKQ.....	TIA	SVSSNSKHTQ	KVPTLSAET	GTTLPTVPSD
ef173421-27	AKQ.....	TIA	SVSSNSKHTQ	KVPTLSAET	GTTLPTVPSD
dq473487-35	TKQ.....	TVA	SIASGSKHTQ	SVPMLTANET	GASMPVEPSD
hrv-35	TKQ.....	TVA	SIASGSKHTQ	SVPTLTANET	GASMPVXPSD
ef173423-37	TKQ.....	TLA	SISSGPKHTQ	SVPTLTANET	GATMPTNPSP
hrv-42	TQQ.....	TLA	SVKSGSKHTQ	KVPSLTANET	GATLPTTPSD
dq473488-48	MKQ.....	ITA	SSQSGPKHTQ	KVPALSANET	GATLPTNPSP
hrv-52	MRQ.....	ITA	SSQSGPKHTQ	KVPALSANET	GATLPTNPSP
hrv-52-f10	MRQ.....	ITA	SSQSGSKHTQ	KVPALSANET	GATLPTNPSP
ef173424-52	MRQ.....	ITA	SSQSGPKHTQ	KVPALSANET	GATLPTNPSP
hrv-69	MKQ.....	VTA	SVQSGSKHTQ	KVPALSANET	GATLPTNPSP
dq473489-70	MKQ.....	VTA	SSQSGPKYTQ	KVPALSANET	GATLPTNPSP

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hrv-72	TKQ.....	TLA	SISSGPKYTQ	SVPTLTANET	GATMPTLPSD
hrv-79	TRQ.....	TLA	SVSSGPKHTQ	SVPTLTANET	GATMPTQPSD
hrv-83	TRQ.....	TLA	SVASGPKHTQ	SVPTLTANET	GATMPTQPSD
hrv-84	AKQ.....	TIA	SINSNSKHTQ	QVPTLSASET	GATLQTVPSD
hrv-86	TKQ.....	TLA	SVATGSKYTQ	KVPALSANET	GATMPTVPSD
hrv-91	MKQ.....	VTA	SSQSGSKYTQ	KVPALSANET	GATLPTDPSD
hrv-92	TKQ.....	TLA	SITSGPKHTQ	SVPTLTANET	GATMPTQPSD
ef173425-93	AKQ.....	TIA	SVVSNSKHTQ	KVPTLSASET	GATLPTVPSD
hrv-97	AKQ.....	TIA	SASSISKHTQ	KVPTLSASET	GATLPTVPSD
hrv-99	TRQ.....	TLA	SIKSDSKHTQ	KVPALTANET	GATLPTKPSD
651					700
annotation	HH.....	HHHZHH	HHH..BBBBB	BBBBB.....	.....
af499637-cva13	TVQTRHVIQT	RSRSESTVES	FFARGACVTI	MGVDN.YNET	LKG.....
af546702-cva21	VVETRHHVNY	KTRSESCLES	FFGRAACVTI	LSLTNSSKS.	.....
v01149-pv1m	TVQTRHHVQH	RSRSESSIES	FFARGACVTI	MTVDNPASTT	N.....
d00239-01	AIETRYVMTS	QTRDEMSIES	FLGRSGCVHI	SRIKVDYND.	Y
pico-01	AIETRYVITS	QTRDEMSIES	FLGRSGCVHI	SRIKVDYTD.	Y
hrv-01	AIETRYVITS	QTRDEMSIES	FLGRSGCVHI	SRIKVDYTD.	Y
x02316-02	VIETRYVQTS	QTRDEMSLES	FLGRSGCIHE	SKLEVTLAN.	Y
hrv-07	MIETRYVITD	QTRDETSIES	FLGRSGCIAK	VKLDTTQGD.	Y
dq473503-07	MIETRYVITD	QTRDETSIES	FLGRSGCIAK	VKLDTTQGD.	Y
hrv-08	LIETRYVITD	QTRHETSLES	FLGRAGCIKI	IAELDHDN.	Y
pico-09	MIETRYVQTS	QTRDEMSLES	FLGRSGCIHI	SKLNIDYSN.	Y
hrv-09	MIETRYVQTS	QTRDEMSLES	FLGRSGCIHI	SKLNIDYSD.	Y
hrv-09-f01	MIETRYVQTS	QTRDEMSLES	FLGRSGCIHI	SKLNVDYDN.	Y
hrv-09-f02	MIETRYVQTS	QTRDEMSLES	FLGRSGCIHI	SKLNVDYDN.	Y
dq473498-10	TVETRYVQTS	QTRDEMSIES	FLGRSGCIHT	STITVNTRP	Y
hrv-10	TVETRYVQTS	QTRDEMSIES	FLGRSGCIHT	STITVNTRP	Y
ef173414-11	MIETRYVQTS	QTLDEMSIES	FLGRSGCIHM	SKLIVQYED.	Y
ef173415-12	VIETRYVITD	QTRDEMSIES	FLGRSGCISI	IELDLDHEG.	Y
hrv-13	MVETRYVQTS	QTRDEMSVES	FLGRSGCIHM	STMNIDYTN.	Y
hrv-13-f03	MVETRYVQTS	QTRDEMSVES	FLGRSGCIYM	HTMNIDYDA.	Y
dq473493-15	MIETRYVQTS	QTRDEMSIES	FLGRSGCVHI	SDLKIHYED.	Y
l24917-16	TIETRYVQSS	QTLDEMSVES	FLGRSGCIHE	SVLDIVDN.	Y
hrv-18	MIETRYVQTS	QTRDEMSIES	FLGRSGCIHI	SKLVVHYED.	Y
hrv-19	MIETRYVQTS	QTRDEMSIES	FLGRSGCVHV	SELQLDYTN.	Y
hrv-20	MVETRYVITD	QTRDEMSVES	FLGRSGCIAI	IHTDLDEHAQ	Q.....Y
hrv-21	MVETRYVQTS	QTRDEMSIES	FLGRSGCIHM	SKLVVNYDN.	Y
hrv-22	MIETRYVLNS	QTRDEMSIES	FLGRSGCIHI	SHLEVKYTG.	Y
dq473497-23	VIETRYVQTS	QTRDEMSLES	FLGRSGCIHE	SKLKVEIGN.	Y
hrv-24	MVETRYVQTS	QTLDEMSVES	FLGRSGCIHM	SKLTVDYDN.	Y
ef173416-24	MVETRYVQTS	QTLHEMSVES	FLGRSGCIHM	SKLTVDYDN.	Y
hrv-25	TIETRYVQTT	QTRDEMSIES	FLGRSGCVHT	STIETKLKH.	.....
dq473508-28	MVETRYVITD	QTRDEMSIES	FLGRSSCIAI	IHTDVVHETD	K.....Y
hrv-29	TIETRYVQTS	HTRDEMSIES	FLGRSGCIHV	STIKANQAH.	.....
dq473512-30	VIETRYVQTS	QTRDEMSLES	FLGRSGCIHE	SKLELELAH.	Y
hrv-30	VIETRYVQTS	QTRDEMSLES	FLGRSGCIHE	SKLELELAR.	Y
hrv-31	TIETRYVQTS	QTRDEMSIES	FLGRSGCVHT	SIIEPDGLH.	.....
hrv-32	MIETRYVQTT	HTRDEMSLES	FLGRSGCVHI	SKLDIDYTN.	Y
hrv-33	MIETRYVQTS	QTLDEMSVES	FLGRSGCIHM	SKLVVKYED.	Y
hrv-34	MIETRYVQTS	QTRDEMSIES	FLGRSGCIHM	SKLVVDYEN.	Y
dq473501-34	MIETRYVQTS	QTRDEMSIES	FLGRSGCIHM	SKLVVDYEN.	Y
dq473505-36	MIETRYVITD	QTRDETSIES	FLGRSGCIAM	IEFSTSSDKD	EH.....
hrv-38	MIETRYVQTS	QTRDEMSVES	FLGRSGCVHI	SNLDIDYIN.	Y
dq473495-38	MIETRYVQTS	QTRDEMSVES	FLGRSGCVHI	SNLDIDYIN.	Y
ay751783-39	TIETRYVQTS	HTRDEMSVES	FLGRSGCIHI	STITMKKEN.	Y
hrv-40	TIETRFVQTS	QTRDEMSIES	FLGRSGCIHI	STITVDNSLE	Y

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dq473491-41	MIETRYVQTS	QTRDEMSIES	FLGRSGCVHK	STLNIDYTD.	Y
hrv-43	MVETRSVHNF	QTRDEMSIES	FLGRSGCIHI	STLEVNYDD.	Y
dq473499-44	TIETRYVQTS	QTRDEMSIES	FLGRSGCIHV	STIKTNQAHN	.....
hrv-45	LIETRYVIAD	QTRHETSIES	FLGRAGCVAT	ISLDINHDD.	.....
dq473506-46	MIETRYVITD	QTKDEMSIES	FLGRSGCIAI	IETELNHEEG	K.....Y
hrv-47	TIETRYVQTA	QTRDEMSIES	FLGRSGCVHS	STIQSNEQH.	.....
dq473496-49	VIETRYVQTS	QTRDEMSLES	FLGRSGCIHE	SKLEVTLTN.	Y
hrv-49-f04	VIETRYVQTS	QTRDEMSLES	FLGRSGCIHE	SKLEVTLTN.	Y
hrv-50	MLETTRYVQTS	QTRDEMSIES	FLGRSGCIHI	SKLVVDYDYG.	Y
hrv-51	MVETRYVVTD	QTRDEMSIES	FLGRSACVAI	IHTNLEHVEA	DRQA.....Y
dq473507-53	MLETTRYVITD	QTRDEMSIES	FLGRSSCIAE	IHTNLDHTG.	Y
hrv-54	TIETRFVQTS	QTRDEMSIES	FLGRAGCIHE	STITIQNDVE	Y
hrv-54-f05	TIETRYVQTS	QTRDEMSIES	FLGRAGCIHE	STITIRNDVE	Y
dq473511-55	VIETRYVQTS	QTRDEMSIES	FLGRSGCVHI	SELVVHYEE.	Y
hrv-56	TIETRYVQTS	QTRDEMSIES	FLGRSGCIHI	STITVDNDVD	Y
hrv-57	MIETRYVQTS	QTRDEMSLES	FLGRSGCIHI	SELIVDYDN.	Y
hrv-58	MIETRYVITD	QTRDETSIES	FLGRSGCIAI	IKFNTNKTN.	Y
dq473500-59	TIETRYVQTS	QTRDEMSVES	FLGRSGCIHI	STITVNKDIK	Y
hrv-60	VIETRYVQIT	QTRDEMSVES	FLGRSGCIHI	SKLEIDYSN.	Y
hrv-61	MIETRYVQTS	QTRDEMSVES	FLGRSGCIHM	STLNINYDN.	Y
hrv-62	TIETRYVQTT	QTRDEMSIES	FLGRSGCVHT	STIETTLSH.	.....
hrv-63	TVETRYVQTS	QTRDEMSVES	FLGRSGCIHI	STITVDKTID	Y
hrv-64	MIETRYVQNT	QTRDEMSIES	FLGRSGCIHI	SDLKVNYTG.	Y
ef173417-64	MIETRYVQNT	QTRDEMSIES	FLGRSGCIHI	SDLKVNYTG.	Y
hrv-65	VIETRYVITD	QTRDEMSVES	FLGRSACIAV	IHTDLKHDHE	GQNV.....Y
hrv-66	TVETRYVQTS	QTRDEMSIES	FLGRSGCIHI	STINVDSTKT	Y
hrv-67	MIETRYVQAS	NTRDEMSLES	FLGRSGCIHI	SKLNIDYNA.	Y
hrv-68	VVETRYVITD	QTRDEMSIES	FLGRSGCIAI	IHTDLDHNE	D.....Y
hrv-71	VMETRYVITD	QTRDEMSIES	FLGRSACIAT	IHTKL VHGE	E.....Y
dq473492-73	MIETRYVQTS	QTRDEMSIES	FLGRSGCIHM	STMNINYEN.	Y
dq473494-74	MVETRYVQTS	QTRDEMSVES	FLGRSGCIHI	SHLKIDYTN.	Y
dq473510-75	MLETQVQNF	QTRDEMSIES	FLGRSGCIHI	STLEIDYTN.	Y
dq473502-76	MVETRYVQTS	QTLDEMSMES	FLGRSGCIHI	SKLVVEYEG.	Y
hrv-76	MVETRYVQTS	QTLDEMSMES	FLGRSGCIHI	SKLVVEYEG.	Y
hrv-77	TVETRYVQTS	QTRDEMSIES	FLGRSGCIHI	STINVEDGKT	Y
hrv-78	TIETRYVITD	QTRDEMSIES	FLGRSGCATI	MRLELDHTD.	Y
ef173418-78	TIETRYVITD	QTRDEMSIES	FLGRSGCATI	MRLELDHTD.	Y
hrv-80	MIETRYVITD	QTKDEMSIES	FLGRSGCVAI	IETKLNHETD	M.....Y
hrv-81	TIETRYVQSS	QTLDEMSVES	FLGRSGCIHE	SILDI.KED.	Y
hrv-81-f06	TIETRYVQSS	QTLDEMSVES	FLGRAGCIHE	SILDI.KED.	Y
hrv-81-f07	TIETRYVQSS	QTLDEMSVES	FLGRAGCIHE	SILDI.KED.	Y
hrv-82	MIETRYVQTS	QTRDEMSLES	FLGRSGCIHI	SHLNVR YTD.	Y
dq473509-82	MIETRYVQTS	QTRDEMSLES	FLGRSGCIHI	SHLVN KYTD.	Y
hrv-85	TIETRFVQTS	QTRDEMSLES	FLGRSGCIHI	STITVNNNLD	Y
pico-85	TIETRFVQTS	QTRDEMSLES	FLGRSGCIHI	STITVNNNLD	Y
dq473504-88	MIETRYVITD	QTRDETSIES	FLGRSGCIAK	IKLDTNEGD.	Y
a10937-89	MIETRYVITD	QTRDETSIES	FLGRSGCIAM	IEFNTSSDKT	E.....
hrv-89	MIETRYVITD	QTRDETSIES	FLGRSGCIAM	IEFNTSSDKT	E.....
hrv-89-f08	MIETRYVITD	QTRDETSIES	FLGRSGCIAM	IEFNTSSDKV	E.....
hrv-89-f09	MIETRYVITD	QTRDETSIES	FLGRSGCIAM	IEFNTSSDKV	E.....
m16248-89	MIETRYVITD	QTRDETSIES	FLGRSGCIAM	IEFNTSSDKT	E.....
hrv-90	VVETRYVQTS	QTRDEMSVES	FLGRSGCIHM	SKLVVNYDN.	Y
hrv-94	MIETRYVQNT	QTRDEMSIES	FLGRSGCIHI	AHLEIKYDG.	Y
ef173419-94	MIETRYVQNT	QTRDEMSIES	FLGRSGCIHI	AHLEIKYDG.	Y
hrv-95	LIETRYVITD	QTRYETSLES	FLGRAGCIKI	IAELDH DN.	.....
hrv-96	MIETRYVQTS	QTRDEMSIES	FLGRSGCIHM	STLNIDYDN.	Y
hrv-98	TIETRYVQTS	QTRDEMSIES	FLGRAGCIHE	STITIQNDVE	Y
hrv-100	TVETRYVQTS	QTRDEMSIES	FLGRSGCIHT	STITVSKMKN	Y

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ef186077-qpm	LIETRYVMND	NTNAEAAVEN	FLGRSA.LWA	NLRLD.....	
ef077279-nat001	LIETRYVMND	NTNAEATVEN	FLGRSA.LWA	NFTLD.....	
ny1078	MIETRYVMNS	NTNAEAAVEN	FLGRSA.LWA	NLTLQ.....	.....
ef582385-c024	LIETRYVINS	NTNSEALIEN	FMGRSA.LWA	KIQVA.....	.....
ef077280-nat045	VIETRYVINN	HTNNEALMEN	FLGRSS.LWA	ELQMS.....	.....
ef582387-c026	LIETRYVMND	NTNAEATVEN	FLGRSA.LWA	NLKLN.....	.....
ef582386-c025	MIETRYVVNS	RTNGEATIEN	FLGRSA.LWA	NIDMA.....	.....
dq473485-03	NVETRRTTYMH	FNGSETDVES	FLGRAACVHV	TEIKNKNAAG	LD.....
ef173422-03	NVETRRTTYMH	FNGSETDVES	FLGRAACVHV	TEIKNKNAAG	LD.....
dq473490-04	NVETRRTLMH	YRGSETTLEN	FLGRAACVHV	VEIKNKR..V	TDD.....T
hrv-05	SVETRRTLMH	YTGSETTLEN	FLGRAACVHV	VEIVNKRPTD	TEE.....
dq473486-06	NVETRRTTYMH	FNGSETDVES	FLGRAACVHI	TEIENKNPAD	IQ.....
l05355-14	SIETRRTTYMH	FNGSETDVEC	FLGRAACVHV	TEIQNKDATG	ID.....
k02121-14	SIETRRTTYMH	FNGSETDVEC	FLGRAACVHV	TEIQNKDATG	ID.....
ef173420-17	NVETRRTTYMH	FTGSETSLEN	FLGRSACVHI	TEIQNKLPTE	PRKEGDRMIN
hrv-26	SVETRRTLMH	YVGSETTLEN	FLGRAACVHV	VEIKNKEPQD	V.....
hrv-27	NIETRRTTYMH	YDGTETSLES	FLGRAACVHV	ITIENKLPTT	GQ.....
ef173421-27	NIETRRTTYMH	YDGTETSLES	FLGRAACVHV	ITIENKLPTT	GQ.....
dq473487-35	SVETRLTYMH	FKGSETDVES	FLGRAACVHM	TEIVNKNPAG	ST.....
hrv-35	SVETRLTYMH	FKGSETDVES	FLGRAACVHM	TEIVNKNPAX	ST.....
ef173423-37	NVETRRTTYMH	FNGSETDIES	FLGRAACVHI	TEIENKNSTG	SV.....
hrv-42	SVETRRTMMH	YTGSETTLEN	FLGRAACVHV	VEIRNKRPTD	GE.....
dq473488-48	NVETRRTTYMH	FSGSETTLEN	FLGRSACVHI	TEIQNKRPPEE	FTSEETA..K
hrv-52	NVETRRTTYMH	FTGSETTLEN	FLGRSACVHI	TEIENEIPQN	PTPEGT...N
hrv-52-f10	NVETRRTTYMH	FNGSETTLEN	FLGRSACVHI	TEIENKVPQD	PTPEGG...N
ef173424-52	NVETRRTTYMH	FTGSETTLEN	FLGRSACVHI	TEIENEIPQN	PTPEGT...N
hrv-69	SVETRRTTYMH	FTGSETTIEN	FLGRSACVHI	TEIQNKKPIE	SLEEGK...N
dq473489-70	NVETRRTTYMH	FTGSETSLEN	FLGRSACVHI	TEIKNKLPT	PVMKGNNMEN
hrv-72	NVETRRTTYMH	FNGSETDIEC	FLGRAACVHV	TEIENKNPNG	IS.....
hrv-79	NVETRRTTYMH	FNGSETDVES	FLGRAACVHM	VKIVNKNPTD	IV.....
hrv-83	NVETRRTTYMH	FNGSETDIES	FLGRAACVHM	VEIVNKNPLN	IK.....
hrv-84	NVETRRTTYMH	YDGAETSLES	FLGRSACVHV	TEIENKSPAT	DM.....
hrv-86	NIETRRTTYMH	FTGSETDVEC	FLGRAACVHI	TEIENKDPTD	IE.....
hrv-91	NVETRRTTYMH	YTGSETTLEN	FLGRSACVHI	TEIQNKLPK	PTEEGNMKN
hrv-92	NVETRRTTYMH	FNGSETDVEN	FLGRAACVHM	VEIVNKNPEG	LE.....
ef173425-93	NVETRRTTYMH	YDGTETSLES	FLGRAACVHV	TDIENKLPT	ES.....
hrv-97	NVETRRTTYMH	YDGTETSIES	FLGRAACVHV	TDIENKLPT	TD.....
hrv-99	SVETRRTLMH	YTGSETTLEN	FLGRAACVHV	VEIRNKRPTD	EI.....

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annotation	HHHHHHH.BB	CBB.....HH	HAHHHHHHBB	BBBBBBBDBB	BBBB.....
af499637-cva13	.DQKSTLFTT	WNITYTDTVQ	LRRKLEMFTY	SRFDIEFTFV	VTERYYSSNS
af546702-cva21	.GEEKKHFN	WNITYTDTVQ	LRRKLEFFTY	SRFDLEMTFV	FTENYPSTAS
v01149-pv1m	...KDKLFAV	WKITYKDTVQ	LRRKLEFFTY	SRFDMELTFV	VTANFTETNN
d00239-01	NGVN.KNFTT	WKITLQEMAQ	IRRKFELFTY	VRFDSEVTLV	PCIAG...RG
pico-01	NGQD.INFTK	WKITLQEMAQ	IRRKFELFTY	VRFDSEITLV	PCIAG...RG
hrv-01	NGQD.INFTK	WKITLQEMAQ	IRRKFELFTY	VRFDSEITLV	PCIAG...RG
x02316-02	N..KE.NFTV	WAINLQEMAQ	IRRKFELFTY	TRFDSEITLV	PCISA...LS
hrv-07	DTGKGVGFTT	WKISLQEMAQ	IRRKFELFTY	TRFDSEITIV	TAAAA...QG
dq473503-07	DTGKGVGFTT	WKISLQEMAQ	VRRKFELFTY	TRFDSEITIV	TAAAA...QG
hrv-08	DE....SFRT	WGINIQEMSQ	IRRKFEMFTY	VRFDSEITIV	PCIAA...IK
pico-09	DK.SVENFTI	WKINIKEMAQ	LRRKFELFTY	ARFDSEITLV	PCIAA...ES
hrv-09	DK.SVENFTI	WKINIKEMAQ	IRRKFELFTY	ARFDSEITLV	PCIAA...ES
hrv-09-f01	DK.SVKNFTI	WKINIKEMAQ	IRRKFELFTY	ARFDSEITLV	PCIAA...ES
hrv-09-f02	DK.SVKNFTI	WKINIKEMAQ	IRRKFELFTY	ARFDSEITLV	PCIAA...ES
dq473498-10	NE...HTFDT	WQITLQEMAQ	IRRKFEMFTY	VRFDSEVTLV	PCIAG...KG
hrv-10	NE...HTFDT	WQITLQEMAQ	IRRKFEMFTY	VRFDSEVTLV	PCIAG...KG
ef173414-11	NG..KKNFNT	WKINLQEMAQ	IRRKFEMFTY	TRFDSEITLV	PCIAA...KG

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ef173415-12	SAE.GKNFKT	WKINLKEMAQ	IRRKNELFTY	LRFDSEITIV	PSNAA...IE
hrv-13	DD.SVNNFVK	WKISLQEMAQ	VRRKFELFTY	VRFDSEITIV	PCIAG...QG
hrv-13-f03	DD.SVNNFVK	WKISLQEMAQ	VRRKFELFTY	VRFDSEITIV	PCIAG...QG
dq473493-15	NKD.GKNFTK	WQINLKEMAQ	IRRKFELFTY	VRFDSEITLV	PCIAA...KS
l24917-16	NDQ...SFTK	WNINLQEMAQ	IRRKFEMFTY	ARFDSEITMV	PSVAA...KD
hrv-18	NAE.TRNFKV	WQINLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PSVAA...KG
hrv-19	NQE.NNNFKT	WQINLKEMAQ	IRRKFELFTY	LRFDSEITLV	PCIAA...KS
hrv-20	NA.PGKNFSQ	WKITIKEMAQ	IRRKCELFTY	LRFDSEITIV	ATVAA...LG
hrv-21	NT.GENNIST	WQINIKEMAQ	IRRKFEMFTY	TRFDSEITLV	PSIAA...RA
hrv-22	NE.EGNNFNI	WQINLKEMAQ	IRRKFELFTY	LRFDSEITLV	PCIAS...QS
dq473497-23	DE...NNFNT	WNINLQEMAQ	IRRKFELFTY	TRFDSEITLV	PCISA...LS
hrv-24	DT...KNFFK	WQINLQEMAQ	VRRKFELFTY	TRFDSEITIV	PSIAG...KG
ef173416-24	DT...KNFFK	WQINLQEMAQ	VRRKFELFTY	TRFDSEITIV	PSIAG...KG
hrv-25	...DER.FKT	WNINLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PSIAG...RG
dq473508-28	NH.PGKNFSK	WNITLKEMAQ	IRRKCEMFTY	LRFDSEITIV	VSVAS...KG
hrv-29	...DAK.FDK	WNVNLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PCIAG...RG
dq473512-30	DK...KNFTT	WNINLQEMAQ	IRRKFELFTY	TRFDSEITLV	PCISA...LS
hrv-30	DK...KNFTT	WNINLQEMAQ	IRRKFELFTY	TRFDSEITLV	PCISA...LS
hrv-31	...DSK.YKV	WHINLQEMAQ	IRRKFEMFTY	VRFDSEITIV	PCIAG...HG
hrv-32	NK.SVKNFTI	WKINIKEMAQ	IRRKFELFTY	TRFDSEITLV	PCIAA...ES
hrv-33	NE...KKNFMT	WKINLQEMAQ	IRRKFEMFTY	ARFDSEITLV	PSIAA...QG
hrv-34	NA.KTKNFMT	WQINLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PSIAA...KG
dq473501-34	NA.KTKNFMT	WQINLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PSIAA...KG
dq473505-36	DK.IGKGFKT	WKISLQEMAQ	IRRKYELFTY	TRFDSEITIV	TAAAV...QG
hrv-38	NS.EDKNFTT	WQINLKEMAQ	IRRKFEMFTY	VRFDSEITLV	PCIAA...QN
dq473495-38	NS.EDKNFTT	WQINLKEMAQ	IRRKFEMFTY	VRFDSEITLV	PCIAA...QN
ay751783-39	NE...HNFVD	WKITLQEMAQ	VRRKFEMFTY	VRFDSEITLV	PCIAG...RG
hrv-40	DD...HHFDK	WQITIQEMSQ	IRRKFEFFTY	ARFDSEITLV	PCIAG...KG
dq473491-41	DD.SIQNFKK	WKISLQEMAQ	IRRKFELFTY	VRFDSEITIV	PSIAG...QG
hrv-43	NG.TGKNFTQ	WPINLQEMAQ	IRRKYELFTY	LRFDSEITLV	PCIAA...KS
dq473499-44	...TK.FDK	WNINLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PCIAG...HG
hrv-45	...YQKNYKN	WAISLQEMSQ	IRRKFEMFTY	VRFDSEITIV	PCVAA...TE
dq473506-46	NAED.QNFSK	WKMTLLEMAQ	IRRKCELFTY	LRFDSEITIV	TTLAG...QG
hrv-47	...INK.FKV	WHINLQEMAQ	IRRKYEMFTY	VRFDSEITMV	PCIAG...YG
dq473496-49	NE...NNFKV	WNINLQEMAQ	IRRKFELFTY	TRFDSEITLV	PCISA...LS
hrv-49-f04	NE...NNFKV	WNINLQEMAQ	IRRKFELFTY	TRFDSEITLV	PCISA...LS
hrv-50	NEE.TKNFKK	WQINLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PSIAA...KG
hrv-51	NA.KGKNFST	WKITLKEMAQ	IRRKCELFTY	LRFDSEITIV	ATIAG...QG
dq473507-53	NE.PGKNHSE	WKITLKEMAQ	IRRKCEMFTY	LRFDSEITIV	VSVAS...KQ
hrv-54	ND...HHFKK	WDITLQEMAQ	IRRKFEFFTY	VRFDSEITLV	PCIAG...KG
hrv-54-f05	ND...HHFKK	WDITLQEMAQ	IRRKFEFFTY	VRFDSEITLV	PCIAG...KG
dq473511-55	NK.EGKNFTK	WQVNIQEMAQ	IRRKFEMFTY	TRFDSEITLV	PSIAA...KG
hrv-56	N...SKHYNK	WQITLQEMAQ	VRRKFEFFTY	VRFDSEITLV	PCVAG...KG
hrv-57	N...TKNFTE	WKINLQEMAQ	IRRKFELFTY	VRFDSEITLV	PSIAA...QG
hrv-58	DD.IGVGYKT	WKISLQEMAQ	IRRKFELFTY	TRFDSEITIV	TAAAA...QG
dq473500-59	DD...GH.FLK	WPITLQEVAQ	IRRKFEFFTY	VRFDSEITLV	PCIAG...KG
hrv-60	NE.ENKNFTT	WQINLKEMAQ	IRRKFELFTY	VRFDSEITLV	PCIAA...KN
hrv-61	DD.SIENFKV	WKINLQEMAQ	IRRKFELFTY	ARFDSEITIV	PCVAG...QG
hrv-62	...KDRFKT	WNINLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PSIAG...RG
hrv-63	DT...GH.FNK	WQITLQEMAQ	IRRKFEFFTY	VRFDSEITLV	PCIAG...KG
hrv-64	NDE.GNNFNK	WQITLKEMAQ	IRRKYELFTY	VRFDSEITLV	PCISS...QS
ef173417-64	NDE.GNNFNK	WQITLKEMAQ	IRRKYELFTY	VRFDSEITLV	PCISS...QS
hrv-65	NDE.GRNFSQ	WEITLKEMAQ	IRRKCELFTY	LRFDSEITIV	ATIAG...QG
hrv-66	DE...SKFRT	WQITLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PCIAG...KG
hrv-67	DE.SRDNFTI	WKINIKEMAQ	IRRKFELFTY	TRFDSEITLV	PCIAA...ES
hrv-68	NA.PGKNFSQ	WKITIKEMAQ	IRRKCELFTY	LRFDSEITIV	ATIAA...LG
hrv-71	NM.KGNNLSK	WQITLKEMAQ	IRRKCELFTY	LRFDSEITIV	ATLAG...QG
dq473492-73	DD.APENFTK	WKISLQEMAQ	IRRKFELFTY	VRFDSEITIV	PCIAG...QS

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dq473494-74	NVE.GKNFTK	WQINLKEMAQ	IRRKFELFTY	VRFDSEVTLV	PCIAA...KS
dq473510-75	NGE.GKNFTQ	WPINLQEMAQ	IRRKYEFTY	LRFDSEVTLV	PCIAA...KG
dq473502-76	DD..TKNFKT	WKINLQEMAQ	VRRKFEMFTY	TRFDSEVTLV	PSIAA...KG
hrv-76	DD..TKNFKT	WKINLQEMAQ	VRRKFEMFTY	TRFDSEVTLV	PSIAA...KG
hrv-77	DE..SK.FRK	WQITLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PCIAG...KG
hrv-78	NA.EGKNFTT	WKINLQEMAQ	IRRKNEMFTY	LRFDSEITLV	CAVAS...QG
ef173418-78	NAE.GKNFTT	WKINLQEMAQ	IRRKNEMFTY	LRFDSEITLV	CAVAS...QG
hrv-80	NA.DGQNFSK	WKITLMEMAQ	IRRKCELFTY	LRFDSEITIV	TTLAG...QG
hrv-81	NT...QSFTK	WKINLQEMAQ	IRRKFEMFTY	TRFNSEITLV	PSIAN...KE
hrv-81-f06	NT...QSFTK	WKINLQEMAQ	IRRKFEMFTY	TRFDSEITLV	PSIAN...KE
hrv-81-f07	NT...QSFTK	WKINLQEMAQ	IRRKFEMFTY	TRFDSEITLV	PSIAN...KE
hrv-82	NE..GNNFRS	WQISIKEMAQ	IRRKFELFTY	VRFDSEITLV	PCIAS...QS
dq473509-82	NEK..NNFRS	WPISIKEMAQ	IRRKFELFTY	VRFDSEITLV	PCIAS...QS
hrv-85	DE...NHFDQ	WQITIQEMAQ	IRRKFEFFTY	TRFDSEITLV	PCIAG...KG
pico-85	DE...NHFDQ	WQITIQEMAQ	IRRKFEFFTY	TRFDSEITLV	PCIAG...KG
dq473504-88	DT.IGVGFVT	WKISLQEMAQ	IRRKFELFTY	TRFDSEITIV	TAAAA...QG
a10937-89	HDKIGKGFKT	WKVSLQEMAQ	IRRKYEFTY	TRFDSEITIV	TAAAA...QG
hrv-89	HDKIGKGFKT	WKXSLQEMAQ	IRRKYEFTY	TRFDSEITIV	TAAAA...QG
hrv-89-f08	HDKIGKGFKT	WKISLQEMAQ	IRRKFEFTY	TRFDSEITIV	TAAAT...KG
hrv-89-f09	HDKIGKGFKT	WKISLQEMAQ	IRRKFEFTY	TRFDSEITIV	TAAAT...KG
m16248-89	HDKIGKGFKT	WKVSLQEMAQ	IRRKYEFTY	TRFDSEITIV	TAAAA...QG
hrv-90	DE...NNFHK	WQINLQEMAQ	IRRKFELFTY	ARFDSEITIV	PSIAG...KG
hrv-94	ND.AGNNFQS	WQITLKEMAQ	IRRKFELFTY	VRFDSEITLV	PCISS...QS
ef173419-94	ND.AGNNFQS	WQITLKEMAQ	IRRKFELFTY	VRFDSEITLV	PCISS...QS
hrv-95	...YDKNFRT	WGINIQEMSQ	IRRKFEMFTY	VRFDSEITIV	PCIAA...IE
hrv-96	DD.SPKNFKV	WKINLQEMAQ	IRRKFELFTY	ARFDSEITIV	PCVAV...QS
hrv-98	ND...HHFRQ	WDITLQEMAQ	IRRKFEFFTY	VRFDSEVTLV	PCIAG...KG
hrv-100	NE...HTFDK	WQITLQEMAQ	IRRKFEMFTY	VRFDSEITLV	PCIAG...KG
ef186077-qpm	QGFRK	WEINFQEHAQ	VRKKFEMFTY	VRFDLEITIV	T.....NNKG
ef077279-nat001	RSFKS	WKINFQEHAQ	IRKKFELFTY	VRFDLEITIV	T.....NNRG
ny1078	NSFVA	WDINFQEHAQ	VRKKFEMFTY	VRFDLEITIV	T.....NNAG
ef582385-c024	NGFAK	WDINFQEHAQ	VRKKFEMFTY	ARFDMEVTIV	T.....NNTG
ef077280-nat045	DGFKK	WDINFQEHAQ	IRKKIEMFTY	IRFDMEVTIV	T.....NNQG
ef582387-c026	QGFKK	WKINFQEHAQ	VRKKFEMFTY	VRFDLEVITIV	T.....NNTG
ef582386-c025	NGYAT	WSITYQGNAQ	IRKKLELFTY	VRFDLEITII	T.....SNSS
dq473485-03	NHRKEGLFND	WKINLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPEAS
ef173422-03	NHRKEGLFND	WKINLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPEAS
dq473490-04	KHKEELLFND	WKISLSSSLVQ	LRRKLELFTY	VRFDSEYTII	ATSS.QPEDA
hrv-05	.HRMQLLFNN	WKINLSSSLVQ	LRRKLEMFTY	VRFDSEYTII	ATSS.QPNEA
dq473486-06	NQKEEKLND	WKINFSSSLVQ	LRKKLELFTY	IRFDSEYTIL	ATAS.QP.KS
l05355-14	NHREAKLFND	WKINLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPDSA
k02121-14	NHREAKLFND	WKINLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPDSA
ef173420-17	THKEQGLFND	WKISLSSSLVQ	FRKKLELFTY	VRFDSEYTIL	ATAS.QPNTA
hrv-26	NHKSELLFND	WKINLSSSLVQ	LRRKLELFTY	VRFDSEYTII	ATSS.QPNTA
hrv-27	THKEQKLYND	WKINLSSSLVQ	LRRKLEMFTY	VRFDSEYTII	ATSS.QPQAA
ef173421-27	THKEQKLYND	WKINLSSSLVQ	LRRKLEMFTY	VRFDSEYTII	ATSS.QPQAA
dq473487-35	NQKQDKLFND	WRINLSSSLVQ	FRKKLELFTY	VRFDSEYTIL	ATAS.QPDNS
hrv-35	NQKQDKLFND	WRINLSSSLVQ	FRKKLELFTY	VRFDSEYTIL	ATAS.QPDNS
ef173423-37	NHKSDKLFND	WKINLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPSKS
hrv-42	EHKTQLLFND	WKINLSSSLVQ	LRRKLEMFTY	VRFDSEYTII	ATSS.QPNTA
dq473488-48	THKEQKLFND	WKISLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPDQA
hrv-52	THKEQKLFSD	WKVNLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPETA
hrv-52-f10	THKEQKLFND	WKISLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPEAA
ef173424-52	THKEQKLFSD	WKVNLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPETA
hrv-69	THKGQMLFND	WKISLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPNAS
dq473489-70	THKEQGLFND	WKINLSSSLVQ	FRKKLELFTY	VRFDSEYTIL	ATAS.QPDTA
hrv-72	NHKAELFND	WKISLSSSLVQ	LRKKLELFTY	VRFDSEYTIL	ATAS.QPDTA
hrv-79	NQKEHLLFND	WRINLSSSLVQ	LRKKLELFTY	IRFDSEYTIL	ATAS.QPNDS

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hrv-83	NQKREKLFNE	WRINLSSSLVQ	LRKKLELFTY	ARFDSEYTYL	ATAS.QPTNS
hrv-84	NHKNQKLFDD	WKINLSSSLVQ	LRRKLEFFTY	VRFDSEYTYI	ATSS.QPND
hrv-86	NQKEAKLFND	WKINLSSSLVQ	LRKKLELFTY	VRFDSEYTYL	ATAS.QPTQS
hrv-91	THKEQKLFND	WKINLSSSLVQ	FRKKLELFTY	VRFDSEYTYL	ATAS.QPETA
hrv-92	NQKEHKLFND	WRINLSSSLVQ	LRKKLELFTY	VRFDSEYTYL	ATAS.QPTSS
ef173425-93	THKEQKLYND	WKINLSSSLVQ	LRRKLDMFTY	VRFDSEYTYI	ATSS.QPQDA
hrv-97	NHKAQKLFND	WKINLSSSLVQ	LRRKLDMFTY	VRFDSEYTYI	ATSS.QPERA
hrv-99	EHKKDLLFND	WKINLSSSLVQ	LRRKLELFTY	VRFDSEYTYI	ATSS.QPDGA

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annotation	BBBEB	BB.....	HHBHH.	BBFB	.BB.BBBBG.
af499637-cva13	GHALNQVYQI	MYVPPGAPVP	KKWDDYTWT	SSNPSIFYTY	GSAPPRISIP
af546702-cva21	GEVRNQVYQI	MYIPPGAPRP	SSWDDYTWS	SSNPSIFYMY	GNAPPRMSIP
v01149-pv1m	GHALNQVYQI	MYVPPGAPVP	EKWDDYTWT	SSNPSIFYTY	GTAPARISVP
d00239-01	DDIGHVVMQY	MYVPPGAPIP	KTRNDFSWQS	GTNMSIFWQH	GQPFPRFSLP
pico-01	DDIGHIVMQY	MYVPPGAPIP	SKRNDFSWQS	GTNMSIFWQH	GQPFPRFSLP
hrv-01	DDIGHIVMQY	MYVPPGAPIP	SKRNDFSWQS	GTNMSIFWQH	GQPFPRFSLP
x02316-02	QDIGHITMQY	MYVPPGAPVP	NSRDDYAWQS	GTNASVFWQH	GQAYPRFSLP
hrv-07	NDIGHIVMQF	MYVPPGAPVP	IKREDYTWS	GTNASIFWQE	GQPYPRFTIP
dq473503-07	NGIGHIVMQF	MYAPPGAPVP	IKREDYTWS	GTNASIFWQE	GQPYPRFTIP
hrv-08	GDLGHIVLQY	MYVPPGAPLP	DKRMHDAWQT	STNASVFWQV	GQTYPRFTIP
pico-09	ESVGHVVMQY	MYVPPGAPLP	RTRDDYAWQS	GTNASIFWQH	GQSYPRFSLP
hrv-09	DSVGHVVMQY	MYVPPGAPLP	RTRDDYAWQS	GTNASIFWQH	GQSYPRFSLP
hrv-09-f01	ESVGHVVMQY	MYVPPGAPLP	RTRDDYAWQS	GTNASIFWQH	GQSYPRFSLP
hrv-09-f02	ESVGHVVMQY	MYVPPGAPLP	RTRDDYAWQS	GTNASIFWQH	GQSYPRFSLP
dq473498-10	DDIGHIVMQY	MYVPPGAPVP	TKRDDFAWQS	GTNASVFWQH	GQPFPRFSLP
hrv-10	DDIGHIVMQY	MYVPPGAPVP	TKRDDFAWQS	GTNASVFWQH	GQPFPRFSLP
ef173414-11	NDIGHVVMQY	MYVPPGAPVP	EKRDDYTWS	GTNASIFWQY	GQTYPRFSLP
ef173415-12	GSNGHVVMQY	MYVPPGAPLP	KKRDDYTWS	GTNASVFWQE	GQPYPRFTIP
hrv-13	GVDGHVVMQY	MYVPPGAPLP	TKRNDYTWS	GTNASVFWQH	GQIYPRFSLP
hrv-13-f03	GVDGHVVMQY	MYVPPGAPLP	TKRNDYTWS	GTNASVFWQH	GQIYPRFSLP
dq473493-15	DNIGHVVMQY	MYVPPGAPLP	NKRNDYTWS	GTNASVFWQH	GQPYPRFSLP
l24917-16	GHIGHIVMQY	MYVPPGAPIP	TTRDDYAWQS	GTNASVFWQH	GQPFPRFSLP
hrv-18	DDIGHIVMQY	MYVPPGAPIP	KTRDDFAWQS	GTNASIFWQH	GQTYPRFSLP
hrv-19	KNIGHVVMQY	MYVPPGAPIP	KTRNDYTWS	GTNASIFWQH	GQPYPRFSLP
hrv-20	RDNGHVVLQY	MYVPPGAPIP	KTRDDYTWS	GTNASVFWQ	GQPYPRFTIP
hrv-21	GDIGHVVMQY	MYVPPGAPIP	KTREDFAWQS	GTNASIFWQH	GQTYPRFSLP
hrv-22	KNIGHVVMQY	MYVPPGAPKP	EKRDDYTWS	GTNASVFWQH	GQPYPRFSLP
dq473497-23	QDIGHITMQY	MYVPPGAPIP	KSRNDYAWQS	GTNASIFWQH	GQTYPRFSLP
hrv-24	DDIGHVVMQY	MYIPPGAPVP	TKRDDYTWS	GTNASVFWQH	GQTYPRFSLP
ef173416-24	DDIGHVVMQY	MYIPPGAPVP	TKRDDYTWS	GTNASVFWQH	GQTYPRFSLP
hrv-25	ADIGHIVMQY	MYVPPGAPLP	TDRKHFAWQS	STNASIFWQH	GQPFPRFSLP
dq473508-28	DDNGHVVMQY	MYVPPGAPIP	TTRNDYTWS	STNASVFWQ	GQPYPRFTIP
hrv-29	NDIGHIVMQY	MYVPPGAPVP	NDRNHFAWQS	GTNASIFWQH	GQPFPRFSLP
dq473512-30	QDIGHITMQY	MYVPPGAPIP	ESRNDYAWQS	GTNASVFWQH	GQTYPRFSLP
hrv-30	QDIGHITMQY	MYVPPGAPIP	ESRNDYAWQS	GTNASVFWQH	GQTYPRFSLP
hrv-31	SDIGHIVMQY	MYVPPGAPVP	TNRKHFAWQS	GTNASIFWQH	GQPFPRFTLP
hrv-32	DSIGHVVMQY	MYVPPGAPLP	QARDDYTWS	GTNASIFWQH	GQAYPRFSLP
hrv-33	DDVGHVVMQY	MYVPPGAPAP	EKRDDYTWS	GTNASVFWQY	GQTYPRFSLP
hrv-34	DDIGHVVMQY	MYVPPGAPIP	KTRDDFAWQS	GTNASIFWQH	GQTYPRFSLP
dq473501-34	DDIGHVVMQY	MYVPPGAPIP	KTRDDFAWQS	GTNASIFWQH	GQTYPRFSLP
dq473505-36	DDSGHVVLQF	MYVPPGAPVP	VKRDDYTWS	GTNASVFWQE	GQPYPRFTIP
hrv-38	EGVGHVVMQY	MYVPPGAPLP	RKRDDYTWS	GTNASVFWQY	GQTYPRFSLP
dq473495-38	EGVGHVVMQY	MYVPPGAPLP	RKRDDYTWS	GTNASVFWQY	GQTYPRFSLP
ay751783-39	EDIGHIVMQY	MYVPPGAPVP	KKRDDYTWS	GTNASVFWQH	GQPYPRFSLP
hrv-40	EDIGHIVMQY	MYVPPGAPIP	KKRNDYTWS	GTNASVFWQH	GQTFPRFSLP
dq473491-41	SDVGHVVMQY	MFVPPGAPLP	EKRDDYTWS	GTNASVFWQY	GQVYPRFSLP
hrv-43	NDIGHVVMQY	MYVPPGAPIP	KTRKDYAWQS	GTNASVFWQH	GQTFPRFSLP

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dq473499-44	DDIGHIVMQY	MYVLPGAPVP	DDRNHFAWQS	GTNASIFWQH	GQPFPRFSLP
hrv-45	GNLGHIVVQY	MFVPPGAPLP	VSRTDNTWQS	STNASVFWQV	GQTYPRFSIP
dq473506-46	DDIGHVVIQY	MYVPPGAPLP	RYRNDYTWQS	GTNASVFWQQ	GQPYPRFTIP
hrv-47	DDIGHIVMQY	MYVPPGAPVP	TSREHFAWQS	GTNASIFWQQ	GQPFPRFSLP
dq473496-49	KDIGHITMQY	MYVPPGAPVP	KSRDDYAWQS	GTNASVFWQH	GQAYPRFSLP
hrv-49-f04	EDIGHITMQY	MYVPPGAPVP	KSRDDYAWQS	GTNASIFWQH	GQAYPRFSLP
hrv-50	VDIGHVVMQY	MYVPPGAPIP	KTRDDFAWQS	GTNASIFWQH	GQTYPRFSLP
hrv-51	DDIGHIVLQY	MYVPPGGPVP	LTRKDDEWQS	GTNASVFWQH	GQPYPRFTIP
dq473507-53	GNNGHVVIQY	MYVPPGAPIP	KTRDDYTWQS	GTNASVFWQQ	GQPYPRFTIP
hrv-54	VDIGHIVMQF	MYVPPGAPKP	EKRNDYTWES	STNPSIFWQH	GQAYPRFSLP
hrv-54-f05	ADIGHIVMQF	MYVPPGAPKP	EKRNDYTWES	STNPSIFWQH	GQAYPRFSLP
dq473511-55	DDIGHVVMQY	MYVPPGAPIP	KTREDYAWQS	GTNASIFWQH	GQTYPRFSLP
hrv-56	DDIGHIVMQY	MYVPPGAPLP	NSRDDFTWQS	GTNASVFWQH	GQAFPRFSLP
hrv-57	EDVGHVVMQY	MYVPPGAPIP	KTRKDYAWQS	GTNASIFWQH	GQTYPRFSLP
hrv-58	EDNGHIVLQF	MYVPPGAPVP	KNRDDFTWQS	GTNASVFWQE	GQPYPRFTIP
dq473500-59	DDIGHIVMQY	MYVPPGAPLP	TKRDDYTWQS	GTNASIFWQH	GQTFPRFSLP
hrv-60	DGIGHVVMQY	MYVPPGAPLP	TKRDDYTWQS	GTNASVFWQH	GQTYPRFSLP
hrv-61	GDIGHVVMQY	MYVPPGAPTP	EKRNDFTWQS	GTNASVFWQH	GQAYPRFSLP
hrv-62	ADIGHIVMQY	MYVPPGAPLP	TDRKHFAWQS	STNASIFWQH	GQPFPRFSLP
hrv-63	DDIGHIVMQY	MYVPPGAPLP	TRREDYTWQS	GTNASIFWQH	GQAFPRFSLP
hrv-64	ANIGHVVMQY	MYVPPGAPIP	TKRNDYVWQS	GTNASIFWQH	GQPYPRFSLP
ef173417-64	ANIGHVVMQY	MYVPPGAPIP	TKRNDYVWQS	GTNASIFWQH	GQPYPRFSLP
hrv-65	DDIGHIVLQY	MYVPPGGPVP	KTRKDEEWQT	GTNASVFWQH	GQPYPRFTIP
hrv-66	DDIGHIVMQY	MYVPPGAPIP	DNRTHFAWQS	GTNASIFWQL	GQPFPRFSLP
hrv-67	DSIGHVVMQY	MYVPPGAPLP	TKRDDYTWQS	GTNASIFWQH	GQSYPRFSLP
hrv-68	KDNHGHVVLQY	MYVPPGAPIP	KTRDDYTWQS	GTNASVFWQQ	GQPYPRFTIP
hrv-71	DDLGHIALQY	MYVPPGGPIP	ETRDADDEWQS	GTNASVFWQH	GQPYPRFTIP
dq473492-73	GDVGHVVMQY	MYVPPGAPLP	TKRNDYTWQS	GTNASVFWQH	GQTYPRFSLP
dq473494-74	DNIGHVVMQY	MYVPPGAPLP	KKRDDYTWQS	GTNASVFWQH	GQPYPRFSLP
dq473510-75	NDIGHVVMQY	MYVPPGAPIP	TTRKDYAWQS	GTNASVFWQH	GQTFPRFSLP
dq473502-76	DDIGHVVMQY	MYVPPGAPVP	KKRDDYTWQS	GTNASIFWQY	GQTYPRFSLP
hrv-76	DDIGHVVMQY	MYVPPGAPVP	KKRDDYTWQS	GTNASIFWQY	GQTYPRFSLP
hrv-77	DDIGHVVMQY	MYVPPGAPIP	DSRTHFAWQS	GTNASIFWQH	GQPFPRFSLP
hrv-78	DNNGHVVLQF	MFVPPGAPIP	KKRDDYTWQS	GTNASVFWQQ	GQTYPRFSIP
ef173418-78	DNNGHVVLQF	MFVPPGAPIP	KKRDDYTWQS	GTNASVFWQQ	GQTYPRFSIP
hrv-80	EDIGHVVIQY	MYVPPGAPLP	NKRNDYTWQS	GTNASVFWQQ	GQPYPRFTIP
hrv-81	GHIGHIVMQY	MYVPPGAPIP	TTREDYAWQS	GTNASIFWQH	GQPFPRFSLP
hrv-81-f06	GHIGHIVMQY	MYVPPGAPIP	TTREDYAWQS	GTNASIFWQH	GQPFPRFSLP
hrv-81-f07	GHIGHIVMQY	MYVPPGAPIP	TTREDYAWQS	GTNASIFWQH	GQPFPRFSLP
hrv-82	NDIGHVVMQY	MYVPPGAPKP	EKRDDYTWQS	GTNASIFWQH	GQPYPRFSLP
dq473509-82	NDIGHVVMQY	MYVPPGAPKP	EKRDDYTWQS	GTNASIFWQH	GQPYPRFSLP
hrv-85	DDIGHIVMQY	MYVPPGAPIP	RKRDDYTWQS	GTNASVFWQH	GQTFPRFSLP
pico-85	DDIGHIVMQY	MYVPPGAPIP	RKRDDYTWQS	GTNASVFWQH	GQTFPRFSLP
dq473504-88	DDTGHIVLQF	MYVPPGAPIP	KKRDDYTWQS	GTNASVFWQE	GQPYPRFTIP
a10937-89	NDSGHIVLQF	MYVPPGAPVP	EKRDDYTWQS	GTNASVFWQE	GQPYPRFTIP
hrv-89	XDSGHIVLQF	MYVPPGAPVP	EKRDDYTWQS	GTNASVFWQE	GQPYPRFTIP
hrv-89-f08	DDNGHIVLQF	MYVPPGAPVP	EKRDDYTWQS	GTNASVFWQE	GQPYPRFTIP
hrv-89-f09	DDNGHIVLQF	MYVPPGAPVP	EKRDDYTWQS	GTNASVFWQE	GQPYPRFTIP
m16248-89	NDSGHIVLQF	MYVPPGAPVP	EKRDDYTWQS	GTNASVFWQE	GQPYPRFTIP
hrv-90	NDIGHVVMQY	MYIPPGAPVP	EKRDDYAWQS	GTNASIFWQH	GQTYPRFSLP
hrv-94	ANIGHVVMQY	MYVPPGAPKP	DKRDDYVWQS	GTNASIFWQH	GQPYPRFSLP
ef173419-94	ANIGHVVMQY	MYVPPGAPKP	DKRDDYVWQS	GTNASIFWQH	GQPYPRFSLP
hrv-95	GDLGHIVLQY	MYVPPGAPLP	DKRMHDAWQT	STNASVFWQV	GQTYPRFTIP
hrv-96	GDIGHVVMQY	MYVPPGAPTP	EKRDDFTWQS	GTNASVFWQH	GQAYPRFSLP
hrv-98	ADIGHIVMQF	MYVPPGAPKP	KKRNDYTWES	STNPSIFWQH	GQAYPRFSLP
hrv-100	DDIGHIVMQY	MYVPPGAPVP	TKRDDFAWQS	GTNASVFWQH	GQPFPRISLP
ef186077-qpm	LMQI	MFVPPGITPP	GGKDGREWDT	ASNPSVFFQP	NSGFPRFTIP
ef077279-nat001	LMQV	MFVPPGIDVP	KQKEGKEWNA	ASNPSVFFQP	HSGFPRFTIP

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ny1078	LMQI	MYVPPGARAP	ANKDSKEWDS	ASNPSVIFYQP	HSGFPRFTIP
ef582385-c024	LVQI	MFVPPGIDAP	DSIDSRLWDS	ASNPSVIFYQP	KSGFPRFTIP
ef077280-nat045	LMQI	MYVPPGIEAP	ESLNDKRWNG	ASNPSVIFYQP	KSGFPRFTIP
ef582387-c026	LMQI	MFIPPGIPAP	NGKNSREWDT	ASNPSVFFQP	NSGFPRFTIP
ef582386-c025	LMQI	MYVPPGAKPP	NNNSSMEWNT	ASNPSIFFQP	GNGFPRFTIP
dq473485-03	SYSSNLTVQA	MYVPPGAPNP	KEWDDYTWQS	ASNPSVFFKV	GET.SRFSVP
ef173422-03	SYSSNLTVQA	MYVPPGAPNP	KEWDDYTWQS	ASNPSVFFKV	GET.SRFSVP
dq473490-04	SYSSNLTVQA	MFIPPGAPNP	IKWDDYTWQS	ATNPSVFFNV	GKS.ARFSPV
hrv-05	KFSSNLTIQA	MFIPPGAPNP	KKWDDYTWQS	ATNPSVFFNV	GKS.ARFSPV
dq473486-06	NYASNLVVQA	MYVPPGAPNP	EKWDDFTWQS	ASNPSVFFKV	GDT.SRFSVP
l05355-14	NYSSNLVVQA	MYVPPGAPNP	KEWDDYTWQS	ASNPSVFFKV	GDT.SRFSVP
k02121-14	NYSSNLVVQA	MYVPHGAPKS	KRVGDYTWQS	ASNPSVFFKV	GDT.SRFSVP
ef173420-17	KYASNLTVQA	MYVPPGAPNP	VKWNDYTWQS	ASNPSVFFEY	GKM.ARFSPV
hrv-26	KYSSNLTVQA	MYIPPGAPNP	VKWDDYTWQS	ATNPSVFFNV	GKS.ARFSPV
hrv-27	RFSNTLTVQA	MFIPPGAPNP	VEWDDYTWQS	ASNPSVFFNV	GKS.ARFSPV
ef173421-27	RFSNTLTVQA	MFIPPGAPNP	VEWDDYTWQS	ASNPSVFFNV	GKS.ARFSPV
dq473487-35	KYSSNLTVQA	MYVPPGAPNP	EAWNDYTWQS	ASNPSVFFKV	GDT.SRFSVP
hrv-35	KYSSNLTVQA	MYVPPGAPNP	EAWNDYTWQS	ASNPSVFFKV	GDT.SRFSVP
ef173423-37	NYASNLVVQA	MYVPPGAPNP	KEWNDFTWQS	ASNPSVFFKV	GDT.ARFSPV
hrv-42	KFSSNLTVQA	MFIPPGAPNP	SKWDDYTWQS	ATNPSVFFNV	GKS.ARFSPV
dq473488-48	QYASNLIQA	MYVPPGAPNP	IEWNDYTWQS	ASNPSVFFEY	GKT.ARFSPV
hrv-52	QYASNLTVQA	MYVPPGAPNP	VEWNDYTWQS	ASNPSVFFEY	GKT.ARFSPV
hrv-52-f10	EYASNLTVQA	MYVPPGAPNP	VKWNDYTWQS	ASNPSVFFEY	GKT.ARFSPV
ef173424-52	QYASNLTVQA	MYVPPGAPNP	VEWNDYTWQS	ASNPSVFFEY	GKT.ARFSPV
hrv-69	EYASNLTVQA	MYVPPGAPNP	VKWNDYTWQS	ASNPSVFFEY	GKT.ARFSPV
dq473489-70	QYASNLTVQA	MYVPPGAPNP	IKWDDYTWQS	ASNPSVFFEY	GKM.ARFSPV
hrv-72	NYSSNLVVQA	MYVPPGAPNP	VEWDDYTWQS	ASNPSVFFKV	GDT.SRFSVP
hrv-79	QYSSNLTVQA	MYVPPGAPNP	TKWDDYTWQS	ASNPSVFFKV	GDT.ARFSPV
hrv-83	SYSSDLTVQA	MYVPPGAPNP	TKWDDYTWQS	ASNPSVFFKV	GDT.ARFSPV
hrv-84	QYSNTLTIQA	MFIPPGAPNP	KEWDDYTWQS	ASNPSVFFNV	GNS.ARFSPV
hrv-86	SYSSNLTVQA	MYVPPGAPNP	KTWNDYTWQS	ASNPSVFFKV	GDT.ARFSPV
hrv-91	QYASNLTVQA	MYVPPGAPNP	IKWDDYTWQS	ASNPSVFFEY	GKM.ARFSPV
hrv-92	KYSSSLTVQA	MYVPPGAPNP	TKWDDYTWQS	ASNPSVFFKV	GDT.ARFSPV
ef173425-93	QFSNTLTVQA	MFIPPGAPNP	QEWDDYTWQS	ASNPSVFFNV	GKS.ARFSPV
hrv-97	QFSNTLTVQA	MFIPPGAPNP	IQWDDYTWQS	ASNPSVFFNV	GRS.ARFSPV
hrv-99	KYSSNLTIQA	MFIPPGAPNP	IKWDDYTWQS	ATNPSVFFNV	GKT.ARFSPV

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annotation	BBB	BLLLLLL...	LLLLL	LLLLLHHHHL	.BBHBBB...
af499637-cva13	FVGIANAYSH	FYDGYATVPL	KTDTTDSGAA	YYGAVSINDF	GLLAVRVVNE
af546702-cva21	YVGIANAYSH	FYDGFARVPL	EGENTDAGDT	FYGLVSINDF	GVLAVRAVNR
v01149-pv1m	YVGISNAYSH	FYDGFASKVPL	KDQSAALGDS	LYGAASLNDF	GILAVRVVND
d00239-01	FLSIASAYYM	FYDGYDG...	DNSSS	KYGSIVTNDM	GTICSRIVTE
pico-01	FLSIASAYYM	FYDGYDG...	DNTSS	KYGSVVTNDM	GTICSRIVTE
hrv-01	FLSIASAYYM	FYDGYDG...	DNTSS	KYGSVVTNDM	GTICSRIVTE
x02316-02	FLSVASAYYM	FYDGYD....	EQDQ.	NYGTANTNNM	GSLCSRIVTE
hrv-07	FMSIASAYYM	FYDGYDG...	DDASS	KYGSVVTNDM	GTICVRLVTS
dq473503-07	FMSIASAYYM	FYDGYDG...	DDASS	KYGSVVTNDM	GTICVRLVTS
hrv-08	FSSIASAYYM	FYDGYDS...	DGLDA	IYGIPVTNHM	GTICVRMVD
pico-09	FLSIASAYYM	FYDGYDG...	GPDS	QYGTIVTNDM	GSLCSRIVTE
hrv-09	FLSIASAYYM	FYDGYDG...	GPDS	LYGTIVTNDM	GSLCSRIVTE
hrv-09-f01	FLSIASAYYM	FYDGYDG...	GPDS	QYGTIVTNDM	GSLCSRIVTE
hrv-09-f02	FLSIASAYYM	FYDGYDG...	GPDS	QYGTIVTNDM	GSLCSRIVTE
dq473498-10	FLSIASAYYM	FYDGYDG...	DTHDS	RYGTTVINHM	GTLCMRIVTN
hrv-10	FLSIASAYYM	FYDGYDG...	DTHDS	RYGTTVINHM	GTLCMRIVTN
ef173414-11	FMSIASAYYM	FYDGYDG...	DQPNs	RYGNIVTNDM	GTLCYRIVTD
ef173415-12	FISIASAYYM	FYDGYAD...	DNPSA	PYGTIVTNDM	GSLCVRIVTD
hrv-13	FLSIASAYYM	FYDGYNG...	DSSDA	RYGTTITNDM	GTLCFRIVTE

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hrv-13-f03	FLSIASAYYM	FYDGYNG...		DSTDA	RYGTTVTNDM	GTLCFRIVTE
dq473493-15	FLSIASAYYM	FYDGYDG...		DSTES	HYGTVVTNDM	GTLC SRIVTE
l24917-16	FLSIASAYYM	FYDGYDG...	.....	DTYKS	RYGTVVTNDM	GTLC SRIVTS
hrv-18	FLSIASAYYM	FYDGYDG...	.....	DQTSS	RYGT VATNDM	GTLC SRIVTD
hrv-19	FLSIASAYYM	FYDGYDG...	.....	DSPGS	RYGTIVTNDM	GTLC SRIVTD
hrv-20	FMSIASAYYM	FYDGYE...	.....	DDKGS	VYGSVVTNDM	GTLCVRIVTE
hrv-21	FLSIASAYYM	FYDGYDG...	.....	DQTDS	QYGAVVTNDM	GSLCYRIVTG
hrv-22	FLSVASAYYX	FYDGYDG...	.....	GPGS	RYGAVVTNDM	GTLC SRIVTE
dq473497-23	FLSVASAYYM	FYDGYN...	.....	EKGT	HYGT VSTNNM	GTLC SRVTE
hrv-24	FLSVASAYYM	FYDGYDG...	.....	DQHDS	VYGSVVTNDM	GTLCYRIVTD
ef173416-24	FLSVASAYYM	FYDGYDG...	.....	DQHDS	VYGSVVTNDM	GTLCYRIVTD
hrv-25	FLSVASAYYM	FYDGYNG...	.....	DDHTA	RYGTTVVNRM	GALCMRIVTN
dq473508-28	FMSIASAYYM	FYDGYE...	.....	DDNGT	TYGAVVTNHM	GTLCARIVTE
hrv-29	FLSVASAYYM	FYDGYNG...	.....	GDHTA	TYGTTVVNRM	GTLCVRIVTG
dq473512-30	FLSVASAYYM	FYDGYN...	.....	EGGT	NYGT VSTNNM	GTLC SRVTE
hrv-30	FLSVASAYYM	FYDGYN...	.....	EGGT	NYGT VSTNNM	GTLC SRVTE
hrv-31	FLSVASAYYM	FYDGYDG...	.....	DKSGA	KYGTTVVNRM	GALCMRVVTN
hrv-32	FLSIASAYYM	FYDGYDG...	.....	GPDS	QYGTIVTNDM	GSLC SRIVTE
hrv-33	FLSIASAYYM	FYDGYDG...	.....	DQPNS	RYGNMVTNDM	GTLC SRIVTD
hrv-34	FLSIASAYYM	FYDGYDG...	.....	DQHDS	RYGT VVTNDM	GTLC SRIVTD
dq473501-34	FLSIASAYYM	FYDGYDG...	.....	DQHDS	RYGT VVTNDM	GTLC SRIVTD
dq473505-36	FMSIASAYYM	FYDGYDG...	.....	DNAAS	KYGSVVTNDM	GTICVRIVTS
hrv-38	FLSIASVYYM	FYDGYDG...	.....	DSTES	HYGTAVTNDM	GTLC SRIVTE
dq473495-38	FLSIASAYYM	FYDGYDG...	.....	DSTES	HYGTAVTNDM	GTLC SRIVTE
ay751783-39	FLSIASAYYM	FYDGYDG...	.....	DKSSS	RYGVSVTNDM	GTLC TRIVTN
hrv-40	FLSIASAYYM	FYDGYDG...	.....	DTSTS	RYGTSVTNHM	GTLC SRIVTN
dq473491-41	FLSIASAYYM	FYDGYEE...	.....	GSTNA	RYGTTVTNDM	GTLCFRIVTE
hrv-43	FLSIASAYYM	FYDGYEG...	.....	DQKTS	RYGTIASNHM	GTLC SRIVTE
dq473499-44	FLSVASAYYM	FYDGYNG...	.....	GDHTA	TYGTTVVNRM	GTLCVRIVTG
hrv-45	FSSIASAYYM	FYDGYDT...	.....	DGTDA	VYGVSVTNDM	GTICVRIVTD
dq473506-46	FMSIASAYYM	FYDGYES...	.....	DK.GK	IYGTAVTNDM	GTICVRIVTE
hrv-47	FLSVASAYYM	FYDGYNG...	.....	DRSGA	KYGTTVVNRM	GALCMRVVTN
dq473496-49	FLSVASAYYM	FYDGYN...	.....	EQ.GQ	NYGT VSTNNM	GSLC SRIVTE
hrv-49-f04	FLSVASAYYM	FYDGYN...	.....	EEGQ	NYGT VSTNNM	GSLC SRIVTE
hrv-50	FLSIASAYYM	FYDGYDG...	.....	DKSTS	RYGT VVTNDM	GTLC SRIVTD
hrv-51	FVSIASAYYM	FYDGYEG...	.....	DSLTS	QYGSVVTNAM	GTLCVRVTE
dq473507-53	FMSIASAYYM	FYDGYE...	.....	DDNGT	TYGAVVTNDM	GTLCVRIVTE
hrv-54	FLSIASAYYM	FYDGYDG...	.....	DAPGS	RYGTSVTNHM	GTLC SRVVTG
hrv-54-f05	FLSIASAYYM	FYDGYDG...	.....	DAPGS	RYGTSVTNHM	GTLC SRVVTG
dq473511-55	FLSIASAYYM	FYDGYDG...	.....	DQTES	RYGTAVTNDM	GTLC SRIITD
hrv-56	FLSIASAYYM	FYDGYDG...	.....	DTSSS	RYGTSVTNHM	GTLC SRIVTN
hrv-57	FLSIASAYYM	FYDGYDG...	.....	DQTES	RYGT VVTNDM	GTLC SRIVTD
hrv-58	FMSIASAYYM	FYDGYDG...	.....	DDAKS	IYGSVVTNDM	GTICVRIVTS
dq473500-59	FLSIASAYYM	FYDGYDG...	.....	DKSES	RYGVSVTNHM	GTLC SRIVTN
hrv-60	FLSIASAYYM	FYDGYDG...	.....	HSTES	HYGT VVTNDM	GTLC SRIVTE
hrv-61	FLSIASAYYM	FYDGYDG...	.....	DSEIT	RYGTSVTNDM	GALCFRIVTE
hrv-62	FLSVASAYYM	FYDGYNG...	.....	DDYTA	KYGTTVVNRM	GALCMRIVTN
hrv-63	FLSIASAYYM	FYDGYDG...	.....	DKSSS	RYGVSVTNHM	GTLC SRIVTN
hrv-64	FLSIASAYYM	FYDGYDG...	.....	GPGS	RYGXXVTNDM	GTLC SRIVTE
ef173417-64	FLSIASAYYM	FYDGYDG...	.....	GPGS	RYGTAVTNDM	GTLC SRIVTE
hrv-65	FVSIASAYYM	FYDGYEG...	.....	DDPNS	KYGSVVTNAM	GTLYVRVTE
hrv-66	FLGIASAYYM	FYDGYDG...	.....	DTPGS	RYGTTVVNHM	GTLCIRIVTN
hrv-67	FLSIASAYYM	FYDGYDG...	.....	GPDS	LYGTIVTNDM	GSLC SRIVTE
hrv-68	FMSIASAYYM	FYDGYE...	.....	DDKGS	VYGSVVTNDM	GTLCVRIVTE
hrv-71	FMSIASAYYM	FYDGYEG...	.....	DALSS	KYGSVVTNAM	GTLCVRVTE
dq473492-73	FLSIASAYYM	FYDGYDG...	.....	DSAQS	HYGTTVVNDM	GTLCFRIVTE
dq473494-74	FLSIASAYYM	FYDGYDG...		DSTES	HYGT VVTNDM	GTLC SRIVTE
dq473510-75	FLSIASAYYM	FYDGYEG...		DQNTS	RYGTIASNHM	GTLC SRIVTE

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dq473502-76	FLSIASAYYM	FYDGYDG...	DQPSS	RYGNIVTNDM	GTLC SRIVTD
hrv-76	FLSIASAYYM	FYDGYDG...	DQPSS	RYGNIVTNDM	GTLC SRIVTD
hrv-77	FLSIASAYYM	FYDGYDG...	DTYES	RYGTTVVNHM	GTLC IRIVTN
hrv-78	FSSIASAYYM	FYDGYPD...	DSTSS	PYGT VVTNDM	GTLC MRMVTD
ef173418-78	FSSIASAYYM	FYDGYSD...	DSTSS	PYGT VVTNDM	GTLC MRMVTD
hrv-80	FMSIASAYYM	FYDGYES...	DKGN.	IYGTAVTNDM	GTLC ARIVTE
hrv-81	FLSVASAYYM	FYDGYDG...	DTYHS	RYGT VVTXDM	GTLC SRIVTS
hrv-81-f06	FLSVASAYYM	FYDGYDG...	DTYQS	RYGT VVTNDM	GTLC SRIVTS
hrv-81-f07	FLSVASAYYM	FYDGYDG...	DTYQS	RYGT VVTNDM	GTLC SRIVTS
hrv-82	FLSIASAYYM	FYDGYDG...	DAPGS	RYGTIVTNDM	GTLC SRIVTE
dq473509-82	FLSIASAYYM	FYDGYDG...	DVPGS	RYGTIVTNDM	GTLC SRIVTE
hrv-85	FLSVASAYYM	FYDGYDG...	DTPGS	MYGTSVTNHM	GTLC SRIVTN
pico-85	FLSVASAYYM	FYDGYDG...	DTPGS	MYGTSVTNHM	GTLC SRIVTN
dq473504-88	FMSIASAYYM	FYDGYDG...	DDASS	RYGSVVTNDM	GTICIRLVTS
a10937-89	FMSIASAYYM	FYDGYDG...	DSAAS	KYGSVVTNDM	GTICVRIVTS
hrv-89	FMSIASAYYM	FYDGYDG...	DSAAS	KYGSVVTNDM	GTICVRIVTS
hrv-89-f08	FMSIASAYYM	FYDGYDG...	DSAAS	KYGSVVTNDM	GTICVRMVTS
hrv-89-f09	FMSIASAYYM	FYDGYDG...	DNAAS	KYGSVVTNDM	GTICVRMVTS
m16248-89	FMSIASAYYM	FYDGYDG...	DSAAS	KYGSVVTNDM	GTICVRIVTS
hrv-90	FLSIASAYYM	FYDGYDG...	DQTDS	RYGTIVTNDM	GTLCYRIVTD
hrv-94	FLSIASAYYM	FYDGYDG...	GPGS	RYGT VVTNDM	GTLC SRIVTE
ef173419-94	FLSIASAYYM	FYDGYDG...	GPGS	RYGT VVTNDM	GTLC SRIVTE
hrv-95	FSSIASAYYM	FYDGYDS...	DGLDA	IYGIPVTNHM	GTICVRMVTD
hrv-96	FLSIASAYYM	FYDGYDG...	DSEST	RYGTSVTNDM	GTLCFRIVTE
hrv-98	FLSIASAYYM	FYDGYDG...	DAPGS	RYGTSVTNHM	GTLC SRVVTG
hrv-100	FLSIASAYYM	FYDGYDG...	DTHDS	HYGTTVINHM	GTLC MRIVTN
ef186077-qpm	FTGLGSAYYM	FYDGYDG...	TDDANI	NYGISLTNDM	GTLCFRALDG
ef077279-nat001	FTGLGSAYYM	FYDGYDG...	INADNT	NYGISETNDM	GTLCFRALDG
ny1078	FTGLGSAYYM	FYDGYDG...	TEAGNI	QYGISRTNDM	GS LCIRALDD
ef582385-c024	FTGLGSAYYM	FYDGYDVP..	RNKSNA	VYGITSTNDM	GTLCFRAMED
ef077280-nat045	FTGLGSAYYV	FYDGYDE...	NKVGST	TYGISATNDM	GTLCFRALED
ef582387-c026	FTGLGSAYYM	FYDGYDG...	TDAANT	NYGISLTNDM	GTLCFRALDG
ef582386-c025	FTGLGSAYYM	FYDGYDK...	VSHDEG	TYGTSVTNDM	GRLCFRTPNN
dq473485-03	FVGIASAYNC	FYDGYSH...	DDPDT	PYGITVLNHM	GSMAFRVVNE
ef173422-03	FVGIASAYNC	FYDGYSH...	DDPDT	PYGITVLNHM	GSMAFRVVNE
dq473490-04	YLGIASAYNC	FYDGYSH...	DNKTT	PYGINVLNHM	GSIAFRVVNE
hrv-05	YLGIASAYNC	FYDGYSH...	DNSTT	PYGINVLNHM	GSMAFRVVNE
dq473486-06	FVGLASAYNC	FYDGYSH...	DNKDT	PYGITVLNHM	GSIAFRVVNE
l05355-14	YVGLASAYNC	FYDGYSH...	DDAET	QYGITVLNHM	GSMAFRIVNE
k02121-14	YVGLASAYNC	FYDGYSH...	DDAET	QYGITVLNHM	GSMAFRIVNE
ef173420-17	FIGIASAYSC	FYDGYSH...	DDENT	PYGINVLNHM	GSIAFRIVND
hrv-26	YLGIASAYNC	FYDGYSH...	DDTKT	PYGINVLNHM	GSMAFRVVNE
hrv-27	YLGIASAYNN	FYDGYSH...	DSKTT	VYGINVLNHM	GSIAFRIVNE
ef173421-27	YLGIASAYNN	FYDGYSH...	DSKTT	VYGINVLNHM	GSIAFRIVNE
dq473487-35	FVGLASAYNC	FYDGYSH...	DDENT	PYGITVLNHM	GSMAFRIVND
hrv-35	FVGLASAYNC	FYDGYSH...	DDENT	PYGITVLNHM	GSMAFRIVND
ef173423-37	FVGLASAYNC	FYDGYSH...	DDENT	PYGITVLNHM	GSMAFRVVDE
hrv-42	YLGIASAYNC	FYDGYSH...	DNLTT	PYGINVLNHM	GSMAFRVVNE
dq473488-48	FTGIASAYNC	FYDGYSH...	DDENT	QYGINVLNHM	GSIAFRVVND
hrv-52	FVGIASAYNC	FYDGYSH...	DDANT	QYGINVLNHM	GSIAFRVVND
hrv-52-f10	FIGIASAYNC	FYDGYSH...	DDPET	QYGINVLNHM	GSIAFRVVND
ef173424-52	FVGIASAYNC	FYDGYSH...	DDANT	QYGINVLNHM	GSIAFRVVND
hrv-69	FTGIASAYNC	FYDGYSH...	DNEDT	QYGINVLNHM	GSIAFRVVND
dq473489-70	FVGIASAYNC	FYDGYSH...	DNEDT	PYGISVLNHM	GSIAFRIVND
hrv-72	YVGLASAYNC	FYDGYSH...	DDAET	QYGISVLNHM	GSMAFRIVNE
hrv-79	FVGLASAYNC	FYDGYSH...	DDENT	PYGITVLNHM	GSMAFRVVND
hrv-83	FVGLASAYNC	FYDGYSH...	DDED	PYGITVLNHM	GSMAFRVVNE
hrv-84	YLGIASAYNN	FYDGYSH...	DSRTT	VYGINVLNHM	GVMAFRVVNE

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hrv-86	FVGLASAYSC	FYDGYSH...	DNEDT	PYGITVLNHM	GSIAFRVVND
hrv-91	FIGIASAYNC	FYDGYSH...	DNEDT	PYGINVLNHM	GSIAFRIVND
hrv-92	FVGLASAYNC	FYDGYSH...	DDED	PYGITVLNHM	GSMAFRIVNE
ef173425-93	YLGIASAYNN	FYDGYSH...	DDKTT	VYGINVLNHM	GSIAFRVVNE
hrv-97	YLGIASAYNN	FYDGYSH...	DNKDT	VYGINVLNHM	GSIAFRVVNE
hrv-99	YLGIASAYXC	FYDGYSH...	DDPNT	PYGINVLNHM	GSIAFRVVNE
851					900
annotation	BBBBB	BBBBIBB..B	BBB.....	.....	.....
af499637-cva13	HNPVRVSSKI	RVYMKPKHVR	VWCPRPPRAV	EYYGPGV...	...DYKANTL
af546702-cva21	SNPHTIHTSV	RVYMKPKHIR	CWCPRPPRAV	LYRGEV...	...DMISSAI
v01149-pv1m	HNPTKVTSKI	RVYLPKPKHIR	VWCPRPPRAV	AYYGPGV...	...DYKDGTL
d00239-01	KQEHPVVITT	HIYHKAKHTK	AWCPRPPRAV	PYTHSRVTNY	VPKTGDVT..
pico-01	KQKHSVVITT	HIYHKAKHTK	AWCPRPPRAV	PYTHSHVTNY	MPETGDVT..
hrv-01	KQKHSVVITT	HIYHKAKHTK	AWCPRPPRAV	PYTHSHVTNY	MPETGDVT..
x02316-02	KHIHKVHIMT	RIYHKAKHVK	AWCPRPPRAL	EYTRAHRTNF	KIEDRSIQ..
hrv-07	TQKHNLIKIVS	RIYHKAKHIK	AWCPRPPRAV	PYQHTHSTNY	VPQNGEVATQ
dq473503-07	TQKHNLIKIVS	RIYHKAKHIK	AWCPRPPRAV	PYQHTHSTNY	VPQNGEVATQ
hrv-08	KQKIKTKIDS	RIYHKAKHIK	AWCPRPPRAV	TYNHIYNPNY	VREGVTPE..
pico-09	EHGSRVKIST	RIYHKAKHVK	AWCPRPPRAV	EYIHTHVTNY	KPSTGDYATV
hrv-09	EHGPRVKIST	RIYHKAKHVK	AWCPRPPRAV	EYIHTHVTNY	KPSTGDYATV
hrv-09-f01	EHGSRVKIST	RIYHKAKHVK	AWCPRPPRAV	EYIHTHVTNY	KPSEGEYSTV
hrv-09-f02	EHGSRVKIST	RIYHKAKHVK	AWCPRPPRAV	EYIHTHVTNY	KPSEGEYSTV
dq473498-10	QQAHEVEITT	SVYHKAKHVK	AWCPRPPRAV	PYTHAHSTNY	KPHGKELQI.
hrv-10	QQAHEVEITT	SVYHKAKHVK	AWCPRPPRAV	PYTHAHSTNY	KPHGKELQI.
ef173414-11	DHRHKIEVTT	RVYHKAKHVK	VWCPRPPRAV	EYTHTHVTNY	KPQEGQVK..
ef173415-12	QKQHKVKITS	RIYHKAKHIS	AWGPRPPRAV	PYQHIHNPNY	KTSNGVPD..
hrv-13	EHTNKVKVTT	RIYHKAKHVK	AWCPRPPRAV	EYTNVHVTNY	KPGTGDVAVS
hrv-13-f03	EHTNKVKVTT	RIYHKAKHIK	AWCPRPPRAV	EYTNVHVTNY	KPKTGDVAVS
dq473493-15	EHGTRVEITT	RVYHKAKHVK	AWCPRPPRAV	EYTHTHVTNY	KPQDGDVTTV
l24917-16	EQLHKVKVVT	RIYHKAKHTK	AWCPRPPRAV	QYSHTHTTNY	KLSSEVHND.
hrv-18	KHKNEVEITT	RIYHKAKHVK	AWCPRPPRAV	EYTHTHVTNY	KPKEGREK..
hrv-19	EHQTQVAITT	RVYHKAKHIK	AWCPRPPRAV	EYTHTHVTNY	KPQTGEVTLT
hrv-20	QQTTHKVKITS	RIFHKAKHIS	AWCPRAPRAV	PYQHTKSTNL	VPRTGEITTH
hrv-21	QHKHKIEVTT	RIYHKAKHVK	AWCPRPPRAV	EYTHTHVTNY	KIANHEVT..
hrv-22	EHQTQVKITT	RVYHKAKHVK	AWCPRPPRAV	GYTHTHVTNY	KPSVGDYTLT
dq473497-23	KHIHDMRIMT	RVYHKAKHVK	AWCPRPPRAL	EYTRAHRTNF	KIEGENVK..
hrv-24	KHNHQIEITT	RIYHKAKHIK	VWCPRPPRAV	EYTHTHVTNY	KHQTREVK..
ef173416-24	KHNHQIEITT	RIYHKAKHIK	VWCPRPPRAV	EYTHTHVTNY	KHQTREVK..
hrv-25	KQVHDVEVTT	NIYHKAKHVK	AWCPRPPRAV	PYKYVDFNNY	AASDNVDI..
dq473508-28	QKQHEVKITS	IIFHKAKHVS	AWCPRPPRAV	AYQHTYSPNF	VPQEGDVETH
hrv-29	KQAHDVQVTT	SIYHKAKHVK	AWCPRPPRVV	PYKYVGLTNY	TLKEEDTV..
dq473512-30	KHIHDVRIMT	RVYHKAKHVK	AWCPRPPRAL	EYTRAHRTNF	KIDGREVK..
hrv-30	KHIHDVRIMT	RVYHKAKHVK	AWCPRPPRAL	EYTRAHRTNF	KIDGREVK..
hrv-31	KQAHKVEITT	NIYHKAKHVK	AWCPRPPRAV	PYRYVGSTNY	KPDENEVTI.
hrv-32	EHGSRVDIST	RVYHKAKHVK	AWCPRPPRAV	EYTHTHVTNY	KPSTGDYTTA
hrv-33	NHKHPIEVTT	RVYHKAKHVK	VWCPRPPRAV	EYTHTHVTNY	KSTTREVK..
hrv-34	EHQNRVEITT	RVYHKAKHVK	TWCPRPPRAV	EYTHTHVTNY	KVRGKTEK..
dq473501-34	EHQNRVEITT	RVYHKAKHVK	TWCPRPPRAV	EYTHTHVTNY	KVRGKTEK..
dq473505-36	NQKHDNLNIVC	RIYHKAKHIK	AWCPRPPRAV	PYQHTHSTNY	IPYKGEIT..
hrv-38	NHGTQVKITT	RIYHKAKHVK	AWCPRPPRAV	EYRHTHVNNY	KPDQGEVTTM
dq473495-38	NHGTQVKITT	RIYHKAKHVK	AWCPRPPRAV	EYRHTHVNNY	KPDQGEVTTM
ay751783-39	QKQHLVEVTT	RVYHKAKHVK	AWCPRAPRAV	PYTHSNVTNY	KVRDGEPT..
hrv-40	KQQHEVEITT	RIYHKAKHIK	AWCPRAPRAV	PYTHTHSTNY	KPQEGEVQ..
dq473491-41	EHTNKVKVTT	RVYHKAKHVK	AWCPRPPRAV	EYTNVHVTNY	KPKAGAEIVA
hrv-43	EHQNQIEITT	RIYHKAKHIK	AWCPRPPRAV	EYTHTHVTNY	KREGKEVET.
dq473499-44	KQAHDVQVTT	SIYHKAKHVK	AWCPRPPRVV	PYKYVGLTNY	TLKETDTV..
hrv-45	QQQHRVKIDS	MVYLKAKHIK	AWCPRPPRAV	TYNHTYNPNY	VRADETAT..

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dq473506-46	QQKHKVLITS	RIYHKAKHIK	AWCPRAPRAV	PYQHIYNPNF	KTTQPETIPD
hrv-47	KQLHKVEITT	NIYHKAKHVK	AWCPRPPRAV	PYRYVGSTNY	KPDQGEVAI.
dq473496-49	KHIHSMHIMT	RIYHKAKHVK	AWCPRPPRAL	EYTRAHRTNF	KVEDRDIK..
hrv-49-f04	KHIHNMHIMT	RIYHKAKHVK	AWCPRPPRAL	EYTRAHRTNF	KIQNRDIK..
hrv-50	EHQNKVEITT	RVYHKAKHIK	VWCPRPPRAV	EYTHTHVTNY	KKSDATEK..
hrv-51	QQKHEVNITS	RIYHKAKHVS	AWCPRPPRAV	AYQHTYSTNF	VPKEGFEGFL.
dq473507-53	QQKNEVKITS	RIYHKAKHIS	AWCPRPPRAV	AYQHTYSPNF	VPQTGTVETH
hrv-54	KQKHPVEITT	RVYHKAKHIR	AWCPRAPRAV	PYTHTRSTNY	MPREGDPT..
hrv-54-f05	KQEHPVEITT	RVYHKAKHIR	AWCPRAPRAV	PYTHTRSTNY	MPQDGEPT..
dq473511-55	NHKHPIEVTT	RVYHKAKHIK	AWCPRPPRAV	EYTHTHVTNY	KKTDGTEK..
hrv-56	KQLHPVEVTT	RVYHKAKHIR	AWCPRAPRAV	PYTHAHVTNY	KPDGDGVQ..
hrv-57	QHTHHVKVTT	RVYHKAKHVK	AWCPRPPRAI	EYTHTHVTNY	KVKGKQEETA
hrv-58	KQRHNLNIVC	RIYHKAKHIK	AWCPRPPRAV	PYQFTHSTNY	IPDSGEVTTQ
dq473500-59	SQEHPVEVVT	RVYHKAKHVK	AWCPRAPRAV	PYTHSYVTNY	KIAGKEPE..
hrv-60	HHGTQVHVAT	RIYHKAKHVK	AWCPRPPRAV	EYRHTHVNNY	RPDDGEEAIT
hrv-61	QHTNQVKITT	RIYHKAKHVK	VWCPRPPRAV	EYTNVHLTNY	KPKDSEKQVT
hrv-62	KQVHDVEVTT	NIYHKAKHVK	AWCPRPPRAV	PYKYVDFNNY	AASDSVDI..
hrv-63	SQEHPVEVTT	RVYHKAKHIR	AWCPRAPRAV	PYTHSYVTNY	KITGQETE..
hrv-64	EHTTQVNITT	RVYHKAKHVK	AWCPRPPRAV	GYTHTNVTNY	KPSKGEYTPP
ef173417-64	EHTTQVNITT	RVYHKAKHVK	AWCPRPPRAV	GYTHTNVTNY	KPSKGEYTPP
hrv-65	RQKHEVNITS	RIYHKAKHIS	AWCPRPPRAV	AYQHTYSTNF	VPSGGLTNLR
hrv-66	EQHHNVEITT	RVYHKAKHVK	AWCPRPLRAV	PYTTVNSTNY	MPHTGDLQI.
hrv-67	EHGSRVKIAT	RVYHKAKHVK	AWCPRPPRAV	EYIHTHVTNY	RPETGEAQTV
hrv-68	QQTHRVKITS	RIFHKAKHIS	AWCPRAPRAV	PYQHTRSTNL	VPKEGDIKTH
hrv-71	QQSNTVNITS	RIYHKAKHVR	AWCPRPPRAV	AYQSTYTTNF	VPQDGINSIK
dq473492-73	EHTSRVKVTT	RIYHKAKHVK	AWCPRPPRAV	EYTNHVTNY	KPTDGEVTTA
dq473494-74	EHDARVEITT	RVYHKAKHVK	AWCPRPPRAV	EYTHTHVTNY	KPQEGDVT..
dq473510-75	EHRNKVEVTT	RIYHKAKHIK	AWCPRPPRAV	EYTFRRVTNY	KRDGQQVEI.
dq473502-76	DHKHKIEVTT	RVYHKAKHVK	VWCPRPPRAV	EYTYTHVTNY	KPHSGDVQ..
hrv-76	DHKHKIEVTT	RIYHKAKHVK	VWCPRPPRAV	EYTYTHVTNY	KPHSGDVQ..
hrv-77	QQNHEVEITT	RVYHKAKHIK	AWCPRPPRAV	PYTAVDSTNY	KPMRGDVQI.
hrv-78	QQQHKVTITA	RVYHKAKHIS	AWGPRPPRAV	PYQHIYNPNY	KTEEGTPD..
ef173418-78	QQQHKVTITA	RVYHKAKHIS	AWGPRPPRAV	PYQHIYNPNY	KTEEGTPD..
hrv-80	QQKHKVLITS	RIYHKAKHIK	AWCPRAPRAV	PYQHTYSPNF	KNTDESIPDT
hrv-81	EQVHKVKIVT	RIYHKAKHTK	AWCPRPPRAV	QYTHTHVTNY	KLETDVHTS.
hrv-81-f06	EQVHKVKVVT	RIYHKAKHTK	AWCPRPPRAV	QYTHTHVTNY	KLETDVHTS.
hrv-81-f07	EQVHKVKVVT	RIYHKAKHTK	AWCPRPPRAV	QYTHTHVTNY	KLETDVHTS.
hrv-82	EHQTQVSITT	RIYHKAKHVK	AWCPRPPRAV	GYTHTHVTNY	KPSQGDYSVV
dq473509-82	EHQTQVNITT	RIYHKAKHVK	AWCPRPPRAV	GYTHTHVTNY	KPSEGDYSVS
hrv-85	KQQHEVEITT	RVYHKAKHVK	AWCPRAPRAV	PYTHTRSTNY	VPQDGEVK..
pico-85	KQQHEVEITT	RVYHKAKHVK	AWCPRAPRAV	PYTHTRSTNY	VPQDGEVK..
dq473504-88	TQKHKLNIIIS	RIYHKAKHIK	AWCPRPPRAV	PYQHTHSTNY	VPKDGEVATQ
a10937-89	NQKHDSNIVC	RIYHKAKHIK	AWCPRPPRAV	AYQHTHSTNY	IPSNGEATTQ
hrv-89	NQKHDLNIVC	RIYHKAKHIK	AWCPRPPRAV	AYQHTHSTNY	IPSNGEATTQ
hrv-89-f08	NQKHDLNIVC	RIYHKAKHIK	AWCPRPPRAV	AYQHTHSTNY	IPLNGEATTQ
hrv-89-f09	NQKHDLNIVC	RIYHKAKHIK	AWCPRPPRAV	AYQHTHSTNY	IPLNGEATTQ
m16248-89	NQKHDSNIVC	RIYHKAKHIK	AWCPRPPRAV	AYQHTHSTNY	IPSNGEATTQ
hrv-90	EHAHKIEITT	RIYHKAKHIK	VWCPRPPRAV	EYTHTHVTNY	KHATRELK..
hrv-94	EHKTQVNITT	RVYHKAKHVK	AWCPRPPRAV	GYTHTHVTNY	KPSEGEYKPP
ef173419-94	EHKTQVNITT	RVYHKAKHVK	AWCPRPPRAV	GYTHTHVTNY	KPSEGEYKPP
hrv-95	KQKIKTKIDS	RIYHKAKHIK	AWCPRPPRAV	TYNHIYNPNY	VREGVTPE..
hrv-96	EHTNKVKITT	RVYHKAKHVK	VWCPRPPRAV	EYTNVHLTNY	KPNNEVTTF.
hrv-98	KQEHPVEITT	RVYHKAKHIR	AWCPRAPRAV	PYTHTRSTNY	MPQDGEPT..
hrv-100	QQAHEVEITT	NIYHKAKHVK	AWCPRPPRAV	PYTHSHSTNY	KPHEGDVKI.
ef186077-qpm	TGASD....I	KVFGKPKHIT	AWIPRPPRAT	QYLHKFSTNY	NKPKTSGSTE
ef077279-nat001	AENSE....I	KIFAKPKHTT	AWIPRPPRAT	QYLHKFSTNY	NKQKPDSSGGQ
ny1078	TTKND....V	KVFAKPKHTT	AWIPRPPRAT	QYTLKYSTNY	NVIKKGTTSD
ef582385-c024	TNEHS....I	RVFVKPKHTI	AWIPRPPRAT	QYTHKFSTNY	HVKKPPDDTTG

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ef077280-nat045	TAKQD....V	KVFVKPKHIT	AWCPRPPRAV	DYTHRYSPNY	HTNK.GSTTE
ef582387-c026	TEVSD....I	KVFAKPKHTA	AWIPRPPRAT	QYLHKFSTNY	NKPKTKGSNE
ef582386-c025	NSGTDI...I	RIFGKPKHTR	AWIPRPPRAT	EYTHKDSTNY	NRRVNPNSD
dq473485-03	HDVHTTIVKI	RVYHRAKHVE	AWIPRAPRAL	PYVSIGRTNY	PRDSKT....
ef173422-03	HDVHTTIVKI	RVYHRAKHVE	AWIPRAPRAL	PYVSIGRTNY	PRDSKT....
dq473490-04	HDKHTTHVKI	RVYHRAKHIR	AWIPRAPRAL	QYLYIGRTNY	SPNPVS....
hrv-05	HDNHTTHVKV	RVYHRAKHIR	AWVPRAPRAL	EYLHIGRTNY	KQSPQN....
dq473486-06	HDAHKTLVKI	RVYHRAKHVE	AWIPRAPRAL	PYETIGRTNY	PKKNKIV...
l05355-14	HDEHKTLVKI	RVYHRAKHVE	AWIPRAPRAL	PYTSIGRTNY	PKNTE.....
k02121-14	HDEHKTLVKI	RVYHRAKLVE	AWIPRAPRAL	PYTSIGRTNY	PKNTE.....
ef173420-17	HDVHTTLVKI	RVFHRAXHIR	AWVPRPPRAL	PYTSIGRTNF	PNTRNK....
hrv-26	HDSHTTHVKI	RVYHRAKHVR	AWVPRAPRAL	QYLHIGRTNY	DPQSKN....
hrv-27	NDVHLTKVKI	RVYHRAKHVL	AWIPRPPRAK	PYLSIGRTNY	EKTGN.....
ef173421-27	NDVHLTKVKI	RVYHRAKHVL	AWIPRPPRAK	PYLSIGRTNY	EKTGN.....
dq473487-35	HDVHTTLVKI	RVYHRAKHVQ	AWIPRAPRAL	PYVSIGRSNY	DKSAK.....
hrv-35	HDVHTTLVKI	RVYHRAKHVQ	AWIPRAPRAL	PYVSIGRSNY	DKSAK.....
ef173423-37	HDAHTTLVKI	RVYHRAKHVE	AWIPRAPRAL	PYEAIGKTNY	PKMIT.....
hrv-42	HDIHTTHVKI	RVYHRAKHIR	AWIPRAPRVL	EYLHIGRTNY	KQNPKN....
dq473488-48	HDSHTTLVKI	RVFHRAXHIR	AWLPRPPRAL	PYTSIGRTNF	PTQH GK....
hrv-52	HDLHKTLVKI	RVFHRAXHIR	AWVPRPPRAL	PYTSIGRTNF	PLNHGK....
hrv-52-f10	HDFHKTLVKI	RVFHRAXHIR	AWVPRPPRAL	PYTSIGRTNF	PLSHGK....
ef173424-52	HDLHKTLVKI	RVFHRAXHIR	AWVPRPPRAL	PYTSIGRTNF	PLNHGK....
hrv-69	HDEHTTIVKI	RVFHRAXHIR	AWIPRPPRAL	PYTSIGRTNF	PNTHGK....
dq473489-70	HDVHTTLVKI	RVFHRAXHIR	AWVPRPPRAL	PYTSIGRTNF	PNTHSK....
hrv-72	HDTHRTL VKI	RVYHRAKHIE	AWVPRAPRAL	PYTSIGRTNY	PKNPK.....
hrv-79	HDTHTEVKI	RVYHRAKHVE	AWIPRAPRAL	PYMSIGRTNY	QRDAK.....
hrv-83	HDAHTTEVKI	RVYHRAKHVQ	VWVPRAPRAL	PYVSIGRTNY	ERQNIK....
hrv-84	NDQHXTKVKI	RIYHRAKHVM	AWIPRPPRAK	PYLHIGRTNY	DGSQS.....
hrv-86	HDLHKTVVKI	RVYHRAKHVQ	AWIPRAPRAL	PYETIGRTNF	PRNPPK....
hrv-91	HDVHTTLVKI	RVFHRPKHIR	AWIPRPPRAL	PYTSIGRTNF	PNRHSK....
hrv-92	HDAHTTEVKI	RVYHRAKHVE	AWIPRAPRAL	PYVSIGRTNY	NKQAIV....
ef173425-93	NDAHLTKVKI	RVYHRAKHVM	AWIPRPPRAK	PYLKIGRTNY	DKSGH.....
hrv-97	NDVHLTKVKI	RVYHRAKHVM	AWIPRPPRAK	PYLKIGRTNY	TGSDN.....
hrv-99	HDTHTTYVKI	RVYHRAKHIR	AWIPRAPRAL	QYLHIGRTNY	DLNSTN....

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annotation	VG	P....HHH..	BBBBB..HHH	HHH..	
af499637-cva13	TPLP	IK..NLTTYG	FGHQLKAVYV	AGYKIVNYHL	ATSEDIRNCV
af546702-cva21	LPLT	.KVDSITTFG	FGHQNKAVYV	AGYKICNYHL	ATPSDHLNAI
v01149-pv1m	TPLS	TKD..LTTYG	FGHQNKAVYT	AGYKICNYHL	ATQDDLQNAV
d00239-01	TAI	VPRASMKTVG	PSDLYVHVGN	LIYRN..LHL	FNSE.MHDSI
pico-01	TAI	VRRNTITTAG	PSDLYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-01	TAI	VRRNTITTAG	PSDLYVHVGN	LIYRN..LHL	FNSE.MHDSI
x02316-02	TAI	VTRPIITTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHESI
hrv-07	IKTR	ANLFTLKSAG	PSSMYVHVGN	LIYRN..LHL	FNSE.LHDSI
dq473503-07	IKTR	ANLFTLKSAG	PSSMYVHVGN	LIYRN..LHL	FNSE.LHDSI
hrv-08	TKV	KYRAEVTTIG	PSEMFVHTTN	LMYRN..YHL	TPEQELDSAI
pico-09	IPVR	DNVRAVKNVG	PSDMYVHVGN	LIYRN..LHL	FNSE.ANNSV
hrv-09	IPVR	DNVRAVKNVG	PSDMYVHVGN	LIYRN..LHL	FNSE.ANDSV
hrv-09-f01	IPVR	DNVRAVRNVG	PSDMYVHVGN	LIYRN..LHL	FNSE.ANDSV
hrv-09-f02	IPVR	DNVRAVRNVG	PSDMYVHVGN	LIYRN..LHL	FNSE.ANDSV
dq473498-10	FIRS	RDDPKVVTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-10	FIRS	RDDPKVVTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
ef173414-11	TAV	KARKTIKTAG	PSDMYVHVGN	LIYRN..LHL	FNSD.IHDSI
ef173415-12	NRV	KLRETLTTVG	PSDLYVHCGD	LIYRN..LHL	CEPEHLNDSV
hrv-13	IVPR	ANVREIRNFG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-13-f03	IVPR	TNVREIRNFG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
dq473493-15	IPTR	ENVRAIVNVG	PSDMYVHVGN	LIYRN..LHL	FNSE.ANDSV

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l24917-16	VAI	RPRTNLTTVG	PSDMYVHVGN	LIYRN..LHL	FNSD.IHDSI
hrv-18	TAI	VPRARITMAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-19	IEIR	DNPRHIKNVG	PSDMYVHVGN	LIYRN..LHL	FNSD.MHDSI
hrv-20	IRFRNTVKDL	TYPTMTNVG	PSDLYVHAGN	LIYRN..LHL	CEPENLNDST
hrv-21	SAV	ESRRITIVTVG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-22	IPTR	ANPRQILNVG	PSDMYVHVGN	LIYRN..LHL	FNSD.IHDSV
dq473497-23	SRV	AHRPAVITAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHESI
hrv-24	TAI	EPRRGIKTVG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
ef173416-24	TAI	EPRRGIKTVG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-25	FI	QPRNSLKTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
dq473508-28	IKFR	TDVKQITTVG	PSDLYVHTGN	LVYRN..LHL	CEPENLNDST
hrv-29	V	ESRPSLMTAG	PSDMYVHVGD	LIYRN..LHL	CNSE.MHDSI
dq473512-30	SRV	EHRARVTTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-30	SRV	EHRARVTTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-31	FVKH	RDNPKIITAG	PSDLFVHVGN	LIYRN..LHL	FNSE.MHDSV
hrv-32	IQTR	EHVRAVKNVG	PSDMYVHVGN	LIYRN..LHL	FNSE.ASDSV
hrv-33	TAI	RPRATIKTAG	PSDMYVHVGN	LIYRN..LHL	FNSD.IHDSI
hrv-34	TAI	KHRAKITMAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
dq473501-34	TAI	KHRAKITMAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
dq473505-36	TQI	KTRPNVFTVG	PSSMFVHVGN	LIYRN..LHL	FNSA.LDDSI
hrv-38	IPTR	TNIRTIVNVG	PSDMYVHVGN	LIYRN..LHL	FNSE.VSDSV
dq473495-38	IPTR	TNIRTIVNVG	PSDMYVHVGN	LIYRN..LHL	FNSE.VSDSV
ay751783-39	LFI	KPRENLTTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-40	IFL	KERASLTTVG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
dq473491-41	SVRPR	DNVRQVRNYG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-43	AIVS	RRDIKIVNAG	PTDMYVHVGN	LIYRN..LHL	FNSE.MHESV
dq473499-44	V	EPRHSIMTAG	PSDMYVHAGN	LIYRN..LHL	CNSE.MHDSI
hrv-45	KV	QTRANVTTVG	PSDMFIHASE	FLYRN..YHL	TPEKELKEAC
dq473506-46	T....HIKIR	TDIKYIKTAG	PSDPHVHAGD	LIYRN..LHL	CESENLNDSI
hrv-47	FIEH	RENPKFITAG	PSDLFVHVGN	LIYRN..LHL	FNSE.AHDSV
dq473496-49	TGI	TSRAIITTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHESI
hrv-49-f04	TGI	KSRPIITTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHESI
hrv-50	TAI	ATRPKITVAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-51	KTQIKT	RADIKLVNFG	PSDLFVHMDD	LVYRN..LHL	CEPENLNDSV
dq473507-53	I....KFRPDV	KDVTSMVTAG	PSDLYVHSSN	FIYKN..LHL	CEPENLNDSV
hrv-54	IFL	KHRTNLVTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-54-f05	IFL	KHRETLTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
dq473511-55	TAI	KYRRDIKTVG	PSDMYVHVGN	LIYRN..LHL	FNSD.MHDSI
hrv-56	IFL	KPRPSLTTFG	PSDMYVHVGN	LIYRN..LHL	FNSD.MHDSI
hrv-57	IKYR	TDIKVVKNVG	PSDMYVHVGN	LIYRN..LHL	FNSD.MHDSI
hrv-58	IKPR	TNVFTITSAG	PSSMFVHVGN	LIYRN..LHL	FNSD.LDDSI
dq473500-59	IFL	KPRMNITTAG	PSDMYVHVDN	LIYRN..LHL	FNSE.MHESV
hrv-60	IPIR	TDIRAIRTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.ISDSV
hrv-61	T....FIKPR	ANLREIRTFG	PSDMYVHVGN	LIYRN..LHL	FNSE.AHDSV
hrv-62	FI	KSRQNLQTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDTI
hrv-63	IFL	KPRATIKTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHESI
hrv-64	VPSR	NSPRDIVTVG	PSDMYVHVGN	LIYRN..LHL	CNSD.MHDSI
ef173417-64	VPSR	NSPRDIVTVG	PSDMYVHVGN	LIYRN..LHL	CNSD.MHDSI
hrv-65	TQIKT	RDNIKIVNFG	PSDMFVHMDD	LIYRN..LHL	CEPENLNDSV
hrv-66	FIKP	RTDPKVVNVG	PSDMFVHAGN	LIYRN..LHL	FNSE.MHDSV
hrv-67	IPVR	ADVTRIRNVG	PSDLYVHVGN	LIYRN..LHL	FNSE.ANDSV
hrv-68	IKFRNTVKDL	AYPPELANLG	PSDLYVHTGN	LIYRN..LHL	CEPENLNDST
hrv-71	T....KIKIR	TDIKEVSNYG	PSDLHVHMGN	LVYRN..LHL	CDHENLNDSV
dq473492-73	IRHR	DNVRAIQNFG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
dq473494-74	TVI	PTRRSIVNVG	PSDMYVHVGN	LIYRN..LHL	FNSE.ANDSV
dq473510-75	AIEP	RRDVKFVNAG	PTDLYVHVGN	LIYRN..LHL	LNSE.MHDSI
dq473502-76	TAI	RPRATIKTAG	PSDMYVHVGN	LIYRN..LHL	FNSD.IHDSI
hrv-76	TAI	RPRATIKTAG	PSDMYVHVGN	LIYRN..LHL	FNSD.IHDSI

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hrv-77	FIKE	RASPKVVTFG	PSDMFVHVGN	LVYRN..LHL	CNSE.MHDSV
hrv-78	TKV	AIRANIKTVG	PSDLYVHVGN	LVYRN..LHL	CTNENLSDST
ef173418-78	TKV	AIRANIKTVG	PSDLYVHVGN	LVYRN..LHL	CTNENLSDST
hrv-80	QIKIR	DNIRQVRTVG	PSDLYVHTGE	LIYRN..LHL	CEPENLDDSV
hrv-81	VAI	KPRTSLTNVG	PSDMYVHVGN	LIYRN..LHL	FNSD.MHDSI
hrv-81-f06	VAI	RPRTSLTNVG	PSDMYVHVGN	LIYRN..LHL	FNSD.MHDSI
hrv-81-f07	VAI	RPRTSLTNVG	PSDMYVHVGN	LIYRN..LHL	FNSD.MHDSI
hrv-82	IPVR	ESPRQILNVG	PSDMYVHVGN	LIYRN..LHL	FNSD.AHDSI
dq473509-82	IPIR	DSPRHILNVG	PSDMYVHVGN	LIYRN..LHL	FNSD.VHDSI
hrv-85	IFLK	E.RASLT TAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
pico-85	IFLK	E.RASLT TAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
dq473504-88	IKTR	RDVYTVT TAG	PSSMYVHVGN	LIYRN..LHL	FNSD.LDESI
a10937-89	IKTR	PDVFTVTNVG	PSSMFVHVGN	LIYRN..LHL	FNSD.LDDSI
hrv-89	IKTR	PDVFTVTNVG	PSSMFVHVGN	LIYRN..LHL	FNSD.LDDSI
hrv-89-f08	IKTR	PDVFTITNVG	PSSMFVHVGN	LIYRN..LHL	FNSD.LDDSI
hrv-89-f09	IKTR	PDVFTITNVG	PSSMFVHVGN	LIYRN..LHL	FNSD.LDDSI
m16248-89	IKTR	PDVFTVTNVG	PSSMFVHVGN	LIYRN..LHL	FNSD.LDDSI
hrv-90	TAI	RPRKTIT TAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MYDSV
hrv-94	VPVR	NSPRDIVTVG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
ef173419-94	VPVR	NSPRDIVTVG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-95	TKV	KYRAEVT TIG	PSEMFVHTTN	LMYRN..YHL	TPEQELDSAI
hrv-96	IKPR	ENLRDIRNFG	PSDMYVHVGN	LIYRN..LHL	FNSE.ISDSV
hrv-98	IFL	KHRKDLVTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
hrv-100	FIRP	RDDPKFVTAG	PSDMYVHVGN	LIYRN..LHL	FNSE.MHDSI
ef186077-qpm	LEPKHFFKYR	QDITSITNLG	PSDMYVHTKE	AIYKC..AHL	..TEPNENTI
ef077279-nat001	VEPKHFLNTR	N...DIKNLG	PSDMFVHTKE	AIYKC..AHL	..TKPNEQTI
ny1078	LEQKHFLT YR	TDIT...NVG	PSDMFVHTKE	AVYKC..AHL	..TTPSEKTI
ef582385-c024	LL..IQKHFI	NHRTDIKTAG	PSDLFVHTAT	MIYRN..AHL	..TSLNDKTV
ef077280-nat045	LEEKHYIN..	.TRTTIKTAG	PSDLFVHTEQ	AIYKN..AHL	..TTPNDQTI
ef582387-c026	LEPKHFLKYR	DDITSITT LG	PSDMYVHTKE	AIYRC..AHL	..TEPNENTI
ef582386-c025	ST.LTRDHYI	KTRATVT TAG	PSDMYVHTKE	AIYRN..AHL	..TSANEQTI
dq473485-03	II	KKRTNIKT YG	LGPRFGGVFT	SNVKIINYHL	MTPDDHLNLV
ef173422-03	II	KKRTNIKT YG	LGPRFGGVFT	SNVKIINYHL	MTPDDHLNLV
dq473490-04	PI..	KTRESINT YG	LGPRFGGVHT	GNIKIMNYHL	MTHEDNLRL
hrv-05	PI..	KTRKTIST YG	LGPRFGGVCT	GNIKIMNYHL	MTHEDNLNLV
dq473486-06	PVI.	KKRENITT YG	LGSRYGGVFT	SNVKIMNYHL	MTPEDHLNLI
l05355-14	PVIK	KRKGDIKSYG	LGPRYGGIYT	SNVKIMNYHL	MTPEDHNNLI
k02121-14	PVIK	KRKGDIKSYG	LGPRYGGIYT	SNVKIMNYHL	MTPEDHNNLI
ef173420-17	VI	ARRDSITT YG	GNLKFGAVYT	CNYKIMNYHL	MTHEDHLNLL
hrv-26	PI..	KTRXTIST YG	LGPRFGGIHT	GNVKIMNYHL	MTHEDNLNLI
hrv-27	II	PKRNNIST YG	LGPRFGGVCT	GNIKIMNYHL	MTHEDTLNLQ
ef173421-27	II	PKRNNIST YG	LGPRFGGVCT	GNIKIMNYHL	MTHEDTLNLQ
dq473487-35	PVI.	KRREQITKYG	LGPRFGGVFT	SNFKIMNYHL	MTPEDHLNLI
hrv-35	PVI.	KRREQITKYG	LGPRFGGVFT	SNFKIMNYHL	MTPEDHLNLI
ef173423-37	PVI.	KKRDNITT YG	LGSRYGGVFT	SNVKIMNYHL	MTPEDHLNLI
hrv-42	PI..	KTRDSIST YG	LGPRFGGVCT	GNIKIMNYHL	MSHEDTLNLV
dq473488-48	VI	AKRESLHT YG	SNPRFGAIYT	CNYKIMNYHL	MTQEDHLNLL
hrv-52	II	AKRDKITT YG	GNSRFGAVYT	CNYKIMNYHL	MTQEDHLNLL
hrv-52-f10	II	AKREKITT YG	GSPRFGAIYT	CNYKIMNYHL	MTQEDHLNLL
ef173424-52	II	AKRDKITT YG	GNSRFGAVYT	CNYKIMNYHL	MTQEDHLNLL
hrv-69	VI	TRRNKITT YG	GSPRFGAVYT	CNYKIMNYHL	MTHEDHLNLL
dq473489-70	VI	ATRDSITT YG	GNSRFGAIYT	CNYKIMNYHL	MTHEDYLNLL
hrv-72	PVIK	KREGDIKT YG	LGPRFGGVYT	SNAKIMNFHL	MTPEDHLNLV
hrv-79	PII.	AKRENIMKYG	LGPRFGGVFT	SNVKIMNYHL	MTPEDHLNLV
hrv-83	PVI.	EKRTSIKQYG	LGPRFGGVYT	GNVKIMNYHL	MTPEDQLNLV
hrv-84	II	PKRDTIST YG	LGPRFGGVCT	GSVKVMNYHL	MTQEDSLNLQ
hrv-86	II	KKRDTINT YG	LGPRFGGIFT	GNVKIMNYHL	MTPEDHLNLV
hrv-91	VI	ATRDSITT YG	GNSRFGAVYT	CNYKIMNYHL	MTHEDHLNLL

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hrv-92	PVI.	KKRSLITNYG	IGPRFGGVFT	GNVKIMNYHL	MTPEDHLNLV
ef173425-93	VI	PKRDGISTYG	FGPRFGGVCT	GNIKIMNYHL	MTHEDMLNLQ
hrv-97	II	PKRKGISTYG	FGPRFGGVCT	GSIKIMNYHL	MTHEDTLNLQ
hrv-99	PI..	KTRDSISTYG	LGPRFGGVCT	GNVKIMNYHL	MTHEDNLNLI
951					1000
annotation	BBBHHHDBBB	BB.....	BBB	BBBHHH.BBB	BBB.BBB.BB
af499637-cva13	RSMWERDLMV	VESKAQGSQDQ	IARCSCKTGV	YYCESRNKHY	PITITAPTQF
af546702-cva21	SMLWDRDLMV	VESRAQGTDT	IARCSCRCGV	YYCESRRKYY	PVTFTGPTFR
v01149-pv1m	NVMWSRDLIV	TESRAQGTDS	IARCNCNAGV	YYCESRRKYY	PVSFVGPTFQ
d00239-01	LVSYSDDLII	YRTNTTGDDY	IPSCNCTEAT	YYCKHKNRYY	PIKVTPHDWY
pico-01	LVSYSDDLII	YRTNTIGDDY	IPNCNCTEAT	YYCRHKNRYY	PIKVTPHDWY
hrv-01	LISYSDDLII	YRTNTIGDDY	IPNCNCTEAT	YYCRHKNRYY	PIKVTPHDWY
x02316-02	LVSYSDDLII	YRTNTVGDDY	IPSCDCTQAT	YYCKHKNRYY	PITVTSHDWY
hrv-07	LVSYSDDLII	YRTNTEGDDV	IPNCNCTDCT	YYCYHKDRYY	PIKVTSHDWY
dq473503-07	LVSYSDDLII	YRTNTEGDDV	IPNCNCTDCT	YYCYHKDRYY	PIKVTSHDWY
hrv-08	QVVTADLVI	HRTNDKGDDY	IPDCNCTDCC	YYCAHKNRYY	PVKVRYNNYY
pico-09	LISYSDDLVI	YRTNTIGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
hrv-09	LISYSDDLVI	YRTNTIGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
hrv-09-f01	LISYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
hrv-09-f02	LISYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
dq473498-10	LVSYSDDLVI	YRTNTIGNDY	IPTCDCTDAT	YYCKHKDRYY	PIKVTSHDWY
hrv-10	LVSYSDDLVI	YRTNTIGNDY	IPTCDCTDAT	YYCKHKDRYY	PIKVTSHDWY
ef173414-11	LVSYSDDLVI	YRTNTVGDDY	IPTCDCTDAT	YFCKHKNRYY	PIKVTSHDWY
ef173415-12	LICYSSDLVI	YRTNSKGDDY	VPSCDCTDCT	FYSKHKDRYY	PITVKKYNWF
hrv-13	LVSYSDDLVI	YRTNTIGDDY	IPSCDCTQAT	YYCKHKNRYY	PIEVTSHDWY
hrv-13-f03	LVSYSDDLVI	YRTNTIGDDY	IPACDCTQAT	YYCKHKNRYY	PINVTSHDWY
dq473493-15	LISYSDDLVI	YRTNTKGDDY	IPTCDCTQAT	YYCRHKNRYY	PIEVTSHDWY
l24917-16	LVSYSDDLII	YRTSTQGDGY	IPTCNCTEAT	YYCKHKNRYY	PINVTPHDWY
hrv-18	LISYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
hrv-19	LVSYSDDLVI	YRTNTVGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
hrv-20	LIRYSDDLVI	YRTNTTGDDM	IPTCDCTQAT	YYCKHKDRYY	PINVRKHQWY
hrv-21	LISYSDDLVI	YRTNTTGDDY	IPTCDCTEAT	YYCKHKNRYY	PIKVTSHDWY
hrv-22	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
dq473497-23	LVSYSDDLII	YRTNTIGDDY	IPSCDCTQAT	YYCKHKNRYY	PITVTSHDWY
hrv-24	LISYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YYCKHKNRYY	PIKVTSHDWY
ef173416-24	LISYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YYCKHKNRYY	PIKVTSHDWY
hrv-25	LVSHSSDLVI	YRTNTTGNDY	IPTCDCTDAT	YYCKHKDRYY	PIKVTSHDWY
dq473508-28	LICYSSDLVI	YRTNTTGNDV	IPTCNCTEAT	YYCKHKDRYY	PINVKKHQWY
hrv-29	LISYSDDLVI	YRTNTTGNDY	IPTCDCTDAT	YYCKHKDRYY	PIKVTSHDWY
dq473512-30	LVSYSDDLII	YRTNTVGDDY	IPSCDCTQAT	YYCKHKNRYY	PITVTSHDWY
hrv-30	LVSYSDDLII	YRTNTVGDDY	IPSCDCTQAT	YYCKHKNRYY	PITVTSHDWY
hrv-31	LVSYSDDLVI	YRTNTTGNDY	IPTCDCTQAT	YYCKHKDRYY	PIVVTSHDWY
hrv-32	LISHSSDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCRHKNRYY	PIKVTSHDWY
hrv-33	SVSYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YFCKHKNRYY	PIKVTSHDWY
hrv-34	LISYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YFCKHKNRYY	PIRVTSHDWY
dq473501-34	LISYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YFCKHKNRYY	PIRVTSHDWY
dq473505-36	LVSYSDDLVI	YRTNTEGDDV	IPNCDCTECT	YYCHHKDRYY	PIKVTPHDWY
hrv-38	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
dq473495-38	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
ay751783-39	LVSYSDDLVI	YRTNTQGDY	IPTCDCTQAT	YYCKHKNRYY	PITVTSHDWY
hrv-40	LVSHSSDLVI	YRTNTIGDDY	IPTCDCTEAT	YYCKHKNRYY	PIKVTSHDWY
dq473491-41	LVSYSDDLVI	YRTNTIGDDY	IPSCDCTQAT	YYCKHKNRYY	PITVTSHDWY
hrv-43	LVSYSDDLVI	YRTNTVGDDY	IPTCDCTDAT	YYCKHKNRYY	PIKVTSHDWY
dq473499-44	LISYSDDLVI	YRTNTTGNDY	IPTCDCTDAT	YYCKHKDRYY	PIKVTSHDWY
hrv-45	QIVYTADLVI	HRTNDKGDDY	IPQCNDCTDCC	YYCAHKDRYY	PIKVEYHSYY
dq473506-46	LISYSDDLVI	YRTNTTGDDI	VPTCDCTLGT	YYCKHKDRYY	PVSVTKHQWY
hrv-47	LVSYSDDLVI	YRTNTTGNDY	IPTCDCTQAT	YYCRHKDRYY	PIDVTSHDWY

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dq473496-49	LVSYSDDLII	YRTNTIGDDY	IPSCDCTQAT	YYCKHKNNRYF	PITVTSHDWY
hrv-49-f04	LVSYSDDLII	YRTNTIGDDY	IPSCDCTQAT	YYCKHKNSRYF	PITVTSHDWY
hrv-50	LVSYSDDLVI	YRTNTIGDDY	IPTCDCTDAT	YYCKHKNNRYF	PIKVTSHDWY
hrv-51	LICYSSDLVI	YRTNTKGDDV	IPTCDCTQAT	YYCKHKNNRYF	PINVKKHDWY
dq473507-53	LISYSDDLVI	YRTNTTGDDI	IPTCDCTLGT	YYCKHKNDRYF	PISVTKHQWY
hrv-54	LVSYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YYCKHKNNRYF	PIKVTSHDWY
hrv-54-f05	LISYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YYCKHKNNRYF	PIKVTSHDWY
dq473511-55	LVSYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YYCKHKNNRYF	PIKVTSHDWY
hrv-56	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTQAT	YYCKHKNNRYF	PINVNSHDWY
hrv-57	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTEAT	YYCRHKNNRYF	PIKVTSHDWY
hrv-58	LVSYSDDLII	HRTNTEGDDI	IPNCDCTECT	YYCHHRDRYF	PIKVTASHDWY
dq473500-59	LVSYSDDLVI	YRTNTKGDDY	IPTCDCTQAT	YYCKHKNNRYF	PINVTSHDWY
hrv-60	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCKHKNNRYF	PIKVTSHDWY
hrv-61	LVSYSDDLVI	YRTNTVGDDF	IPTCDCTQAT	YYCKHKNNRYF	PITVTSHDWY
hrv-62	LVSXSSDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCKHKNNRYF	PIKVTSHDWY
hrv-63	LISYSDDLVI	YRTNTKGDDY	IPTCDCTQAT	YYCKHKNNRYF	PINVTSHDWY
hrv-64	LVSYSDDLVI	YRTNTIGDDY	IPMCDCTDAT	YYCKHKNNRYF	PIKVTSHDWY
ef173417-64	LVSYSDDLVI	YRTNTIGDDY	IPMCDCTDAT	YYCKHKNNRYF	PIKVTSHDWY
hrv-65	SICYSSDLVI	YRTNTKGDDL	IPTCNCTQAT	YYCKHKNNRYF	PINVKKHDWY
hrv-66	LVSYSDDLVI	YRTNTTGNDY	IPTCDCTDAT	YYCRHKNDRYF	PIKVTSHDWY
hrv-67	LISYSDDLVI	YRTNTVGDDY	IPTCDCTEAT	YYCRHKNNRYF	PIRVTSHDWY
hrv-68	LICYSSDLVI	YRTNTTGDDI	IPTCDCTQAT	YYCKHKNDRYF	PINVRKYQWY
hrv-71	LIRYSSDLVI	YRTNTEGDDF	IPTCNCTQAT	YYCKHKNNRYF	PINVKKHEWY
dq473492-73	LVSYSDDLVI	YRTNTIGDDF	IPSCDCTEAT	YYCKHKNNRYF	PIKVTSHDWY
dq473494-74	LISYSDDLVI	YRTNTKGDDY	IPTCDCTEAT	YYCKHKNNRYF	PIKVTSHDWY
dq473510-75	LISYSDDLII	YRTNTKGDDY	IPTCDCTEAT	YYCRHKNNRYF	PIKVTSHDWY
dq473502-76	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YFCKHKNNRYF	PIKVTSHDWY
hrv-76	LVSYSSDIVI	YRTNTTGDDY	IPTCDCTDAT	YFCKHKNNRYF	PIKVTSHDWY
hrv-77	LVSYSDDLVI	YRTNTIGNDY	IPTCDCTEAT	YYCKHKNDRYF	PIRVTSHDWY
hrv-78	LIRYSSDLVI	YRTNTRGDDY	IPTCDCTQCT	YYCKSKGRYY	PIIVRKHDWY
ef173418-78	LIRYSSDLVI	YRTNTRGDDY	IPTCDCTQCT	YYCKSKGRYY	PIIVRKHDWY
hrv-80	LICYSSDLVI	YRTNTKGDDV	IPVCDCTHAT	YYCKHKNNRYF	PIEVKKHQWY
hrv-81	LVSYSDDLVI	YRTNTQGDDY	IPTCNCTDAT	YYCKHKNNRYF	PIKVTPHDWY
hrv-81-f06	LVSYSDDLVI	YRTNTQGDDY	IPTCNCTDAT	YYCKHKNNRYF	PIKVTPHDWY
hrv-81-f07	LVSYSDDLVI	YRTNTQGDDY	IPTCNCTDAT	YYCKHKNNRYF	PIKVTPHDWY
hrv-82	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCRHKNNRYF	PIKVTSHDWY
dq473509-82	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTDAT	YYCRHKNNRYF	PIKVTSHDWY
hrv-85	LVSYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YYCKHKNNRYF	PIRVTSHDWY
pico-85	LVSYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YYCKHKNNRYF	PIRVTSHDWY
dq473504-88	LVSYSDDLII	YRTNTKGDDV	IPNCDCTDCT	YYCHHKNDRYF	PIKVTSHDWY
a10937-89	LVSYSDDLII	YRTNTEGNDV	IPNCDCTECT	YYCHHKNDRYF	PIRVTAHDWY
hrv-89	LVSYSDDLII	YRTNTEGNDV	IPNCDCTECT	YYCHHKNDRYF	PIRVTAHDWY
hrv-89-f08	LVSYSDDLVI	YRTNTEGNDV	IPNCDCTECT	YYCHHKNDRYF	PIKVTASHDWY
hrv-89-f09	LVSYSDDLVI	YRTNTEGNDV	IPNCDCTECT	YYCHHKNDRYF	PIKVTASHDWY
m16248-89	LVSYSDDLII	YRTNTEGNDV	IPNCDCTECT	YYCHHKNDRYF	PIRVTAHDWY
hrv-90	LVSYSDDLVI	YRTNTTGDDY	IPTCDCTEAT	YYCKHKNNRYF	PIRVTSHDWY
hrv-94	LISYSDDLVI	YRTNTKGDDY	IPTCDCTDAT	YYCKHKNNRYF	PIKVTSHDWY
ef173419-94	LISYSDDLVI	YRTNTKGDDY	IPTCDCTDAT	YYCKHKNNRYF	PIKVTSHDWY
hrv-95	QVYVTADLVI	HRTNDKGDDY	IPDCNCTDCC	YYCAHKNNRYI	PVKVKYNNYY
hrv-96	LVSYSDDLVI	YRTNTIGDDY	IPACDCTQAT	YYCKHKNNRYF	PITVKSHDWY
hrv-98	LVSYSDDLVI	YRTNTIGDDY	IPTCDCTEAT	YYCKHKNNRYF	PIKVTSHDWY
hrv-100	LVSYSDDLVI	YRTNTTGNDY	IPTCDCTDAT	YYCKHKNDRYF	PIKVTSHDWY
ef186077-qpm	LLAISSDLQV	DSTSIPGPDN	IPTCDCTTGT	YYCKSRDRYY	PINLTHHSWY
ef077279-nat001	LLAISSDLQV	DSVDTPGPDN	IPTCDCTTGT	YYCKSRDRYF	PINLTHHSWY
ny1078	LLAISSDLQI	DSADEPGPDI	IPTCDCTTGT	YFCKSMDRYF	PVEFRHHSWY
ef582385-c024	LLALSADLQV	DAADQPGPDT	IPQDCCLEGC	YYSKSLDRYI	PVKLEAHDWY
ef077280-nat045	LLALTADLQI	DGCDQPGPDN	IPDCDCTSGC	YYSRSLDRYI	PVECEAHDWY
ef582387-c026	LLAISSDLQV	DSTNVPGPDN	IPTCDCTTGT	YYCKSRDRYY	PVNLTHHSWY

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ef582386-c025	LIALTADLQV	DAAEHPGDDI	IPDCDCTTGT	YYCKSKDRYY	PVSVVSHAWY
dq473485-03	APYPNRDLAV	VATGAHGAET	IPHCNCTSGV	YYSRYYRKFY	PIICERPTNI
ef173422-03	APYPNRDLAV	VATGAHGAET	IPHCNCTSGV	YYSRYYRKFY	PIICERPTNI
dq473490-04	TPMPERDLAI	VDARAHGSET	VPQCSTSGV	YYSRYYNKYY	PVVCEKPTCV
hrv-05	TPMPERDLAI	INIGAAGSET	VPHCNCTSGV	YFSRYYNNFY	PVICEKPTCL
dq473486-06	TPYVNRDLAV	VFTGAHGAET	IPHCNCTSGV	YYSRYYRKFY	PVICEKPTTI
l05355-14	APYPNRDLAI	VSTGGHGAET	IPHCNCTSGV	YYSTYYRKYY	PIICEKPTNI
k02121-14	APYPNRDLAI	VSTGGHGAET	IPHCNRTSGV	YYSTYYRKYY	PIICEKPTNI
ef173420-17	TPYYNRDLAV	VATGALGSET	IPHCNCTSGV	YYSQYYNKYY	PIICDKPTNI
hrv-26	TPLPERDLAV	VGVGAGHSET	VPHCNCTSGV	YYSRYYNKFY	PIVCEKPTCL
hrv-27	TSLPERDLAV	ISINAHGSET	VPQCSTGGV	YYSRYYNKYY	PVVCEKPTCV
ef173421-27	TSLPERDLAV	ISINAHGSET	VPQCSTGGV	YYSRYYNKYY	PVVCEKPTCV
dq473487-35	APYQSRDLAI	VATGAHGAET	IPHCNCTSGV	YYSTYYRKFY	PVICEKPTTI
hrv-35	APYQSRDLAI	VATGAHGAET	IPHCNCTSGV	YYSTYYRKFY	PVICEKPTTI
ef173423-37	TPYVNRDLAI	VYTGAHGAET	IPHCNCTSGV	YYSRYYRKFY	PIMCEKPTTI
hrv-42	TPLPERDLAI	VSTGAHGSET	VPQCNMSGV	YYSRYYNKFY	PVICEKPTCL
dq473488-48	APHYNRDLAV	VATGAQGSEI	IPHCNCTSGV	YYSQYYGKYY	PIICEKPTNI
hrv-52	TPYYNRDLAV	VATGAQGSEI	IPHCNCTSGV	YYSQYYRKYY	PIICEKPTNI
hrv-52-f10	TPYYNRDLAV	VATGAQGSEI	IPHCNCTSGV	YYSQYYRKYY	PIICDKPTNI
ef173424-52	TPYYNRDLAV	VATGAQGSEI	IPHCNCTSGV	YYSQYYRKYY	PIICEKPTNI
hrv-69	TPYYDRDLAV	VATGAQGSEI	VPHCNCTSGV	YYSQYYRKYY	PIICERPTNX
dq473489-70	TPYYNRDLAV	VATGAQGSET	IPHCNCTSGV	YYSQYYNKYY	PIICDKPTNI
hrv-72	TSYPSRDLAI	VSTGAHGAET	IPHCNCTSGV	YYSSYYRKFY	PVICEKPTTI
hrv-79	TSYPSRDLAI	VFTGAHGAET	VPHCNCTSGV	YYSTYYRKS	PIICDKPTTI
hrv-83	SSHPNRDLAV	VSTGAHGAET	IPHCNCTSGV	YYSTYYRKFY	PVICERSTTI
hrv-84	TPLPERDLAI	INLNHGSET	IPHCNCTSGV	YYSRHYNKFY	PVICEKPTCI
hrv-86	TPYPSRDLAI	VSTGAHGAET	IPHCNCTSGV	YYSRYYNKFY	PIICEKPTNI
hrv-91	TPYYNRDLAV	VATGAQGSEI	IPHCNCTSGV	YYSQYYNKYY	PIICDKPTNI
hrv-92	APHPNRDLAV	VSTGAHGAET	IPHCNCTSGV	YYSTYYRKFY	PIICGKPTTI
ef173425-93	TPLPERDLAV	VNINAHGSET	VPHCNCTSGV	YYSRYYNKYY	PIICEKPTCI
hrv-97	TPLPERDLAV	VNINAHGSET	VPQCNCSTSGV	YYSRYYNKYY	PVICEKPTCI
hrv-99	TPLPERDLAV	VSLQGHGSET	VPQCKCTSGV	YYSRYYNKFY	PVICEKPTCL
1001					
annotation	BB.....	BBBB.BBBBB	C..	BBB....BBB	BBBBB...BB
af499637-cva13	WMEKNDFYPA	RYQSHMTIGN	GFAAPGDCGG	ILRCQHGVMG	LITAGGNGLV
af546702-cva21	FMEANDYYPA	RYQSHMLIGC	GFAEPGDCGG	ILRCTHGVIG	IITAGGEGVV
v01149-pv1m	YMEANNYYPA	RYQSHMLIGH	GFASPGDCGG	ILRCHHGVIG	IITAGGEGLV
d00239-01	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCRHGVIG	IITAGGEGHV
pico-01	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCRHGVIG	IITAGGEGHV
hrv-01	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCRHGVIG	IITAGGEGHV
x02316-02	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDNHV
hrv-07	EIQESEYYPK	HIQYNILIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
dq473503-07	EIQESEYYPK	HIQYNILIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
hrv-08	TIQESEYYPK	HIQYDILLGE	GPSEPGDCGG	KLLCKHGVIG	MVTAGGDNHV
pico-09	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-09	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-09-f01	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	MITAGGEGHV
hrv-09-f02	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473498-10	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-10	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
ef173414-11	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
ef173415-12	EIQESEYYPK	HIQYNILIGD	GPCQAGDCGG	KLLCKHGVIG	IVTAGGSGKV
hrv-13	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-13-f03	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473493-15	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
l24917-16	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-18	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
1050					

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hrv-19	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-20	EIQESEYYPK	HIQYNILIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDNHV
hrv-21	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	MITAGGDGHV
hrv-22	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473497-23	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDNHV
hrv-24	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
ef173416-24	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
hrv-25	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
dq473508-28	EIQESEYYPK	HIQYNILIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGENHV
hrv-29	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473512-30	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDNHV
hrv-30	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDNHV
hrv-31	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-32	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-33	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-34	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
dq473501-34	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
dq473505-36	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	MVTAGGDGHV
hrv-38	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473495-38	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
ay751783-39	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGDNHV
hrv-40	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473491-41	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-43	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473499-44	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-45	TIQKSDYYPK	HIQYDILIGE	GPSQPGDCGG	KLLCRHGVIG	MVTAGGEGHV
dq473506-46	EIQESDYYPK	HIQYNILLGV	GPCKPGDCGG	KLLCKHGVIG	IITAGGDNHV
hrv-47	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473496-49	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDNHV
hrv-49-f04	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDNHV
hrv-50	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
hrv-51	EIQESEYYPK	HIQCNILIGE	GPCEPGDCGG	KLLCKHGVIG	LLTAGGSGHV
dq473507-53	EIQESEYYPK	HIQYNILLGV	GPCKPGDCGG	KLLCKHGVIG	IITAGGDNHV
hrv-54	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-54-f05	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473511-55	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCRHGVIG	MVTAGGDGHV
hrv-56	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-57	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	MITAGGEGHV
hrv-58	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDGHV
dq473500-59	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-60	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-61	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-62	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
hrv-63	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-64	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
ef173417-64	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-65	EIQESEYYPK	HIQYNILIGE	GPCKPGDCGG	KLLCKHGVIG	ILTAGGEGHV
hrv-66	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-67	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-68	EIQESEYYPK	HIQYNILMGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDNHV
hrv-71	EIQESEYYPK	HVQYNILIGE	GPCEPGDCGG	KLLCSHGVIG	IVTAGGEGHV
dq473492-73	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473494-74	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
dq473510-75	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCRHGVIG	IVTAGGEGHV
dq473502-76	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-76	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-77	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
hrv-78	EIQESEYYPK	HIQYNILIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV

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ef173418-78	EIQESEYYPK	HIQYNILIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
hrv-80	EIQESEYYPK	HIQYNILIGV	GPCEPGDCGG	KLLCKHGVIG	IVTAGGDDHV
hrv-81	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-81-f06	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-81-f07	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-82	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473509-82	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-85	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
pico-85	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
dq473504-88	EIQESEYYPK	HIQYNILIGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
a10937-89	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	MITAGGEGHV
hrv-89	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	MITAGGEGHV
hrv-89-f08	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	MVTAGGEGHV
hrv-89-f09	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	MVTAGGEGHV
m16248-89	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	MITAGGEGHV
hrv-90	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-94	EIQESEYYPK	HIQYNLLIGE	GPCKPGDCGG	KLLCKHGVIG	IITAGGEGHV
ef173419-94	EIQESEYYPK	HIQYNLLIGE	GPCKPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-95	TIQESEYYPK	HIQYDILLGE	GPSEPGDCGG	KLLCKHGVIG	MVTAGGDNHV
hrv-96	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-98	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
hrv-100	EIQESEYYPK	HIQYNLLIGE	GPCEPGDCGG	KLLCKHGVIG	IITAGGEGHV
ef186077-qpm	IIQESSYYPK	HIQYDILIGE	GPCSPGDCGG	KLLCTHGTIG	MVTAGGENHV
ef077279-nat001	IIQESDYYPK	HIQYDILIGE	GPCSPGDCGG	KLLCVHGTIG	MVTAGGENHV
ny1078	EIQESIYYPK	HIQYDILIGE	GPCSPGDCGG	KLLCVHGTIG	MITAGGENHV
ef582385-c024	QIEETCYYPQ	HIQYNIMIGE	GHCQPGDCGG	KLLCTHGVIG	IITAGGDNHV
ef077280-nat045	PVEETQYYPK	HIQYNLLIGE	GPCVPGDCGG	KLLCRHGVIG	IITAGGDGHV
ef582387-c026	IIQESSYYPK	HIQYDILIGE	GPCSPGDCGG	KLLCIHGTIG	MVTAGGENHV
ef582386-c025	PIEESSYYPK	HVQYNILLGE	GPCEPGDCGG	KLLCKHGVIG	IVTAGGEGHV
dq473485-03	WIEGSSYYPS	RYQAGVMKGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGGGYV
ef173422-03	WIEGSSYYPS	RYQAGVMKGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGGGYV
dq473490-04	WIEGNNYYPS	RYQQGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGFV
hrv-05	WIEGNNYYPS	RYQQGVMRGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
dq473486-06	WIEGSSYYPS	RYQTGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
l05355-14	WIEGNPYYPS	RFQAGVMKGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
k02121-14	WIEGSPYYPS	RFQAGVMKGV	GPAELGDCGG	ILRCIHGPIG	LLTAGGSGYV
ef173420-17	WIEGNNYYPS	RFQSGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
hrv-26	WIEGNNYYPS	RYQQGVMRGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
hrv-27	WIEGNNYYPS	RYQQGVMKGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
ef173421-27	WIEGNNYYPS	RYQQGVMKGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
dq473487-35	WIEGGPYYPS	RYQVGVMKGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
hrv-35	WIEGGPYYPS	RYQVGVMKGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
ef173423-37	WIEGSSYYPS	RYQSGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
hrv-42	WIEGNNYYPS	RYQQGVMRGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
dq473488-48	WIEGNNYYPS	RYQAGVMKGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
hrv-52	WIEGGSYYPS	RFQSGVMKGV	GPAEPGDCGG	ILRCMHGPIG	LLTAGGSGYV
hrv-52-f10	WIEGGSYYPS	RFQSGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
ef173424-52	WIEGGSYYPS	RFQSGVMKGV	GPAEPGDCGG	ILRCMHGPIG	LLTAGGSGYV
hrv-69	WIEGNNYYPS	RFQSGVMKGI	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
dq473489-70	WIEGNNYYPS	RFQSGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
hrv-72	WIEGGPYYPS	RFQTGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
hrv-79	WIEGGPYYPS	RYQVGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
hrv-83	WIEGGPYYPS	RYQAGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
hrv-84	WIEGNNYYPS	RYQQGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
hrv-86	WIEGGPYYPS	RYQSGVMKGV	GPAEPGDCGG	ILRCIHGPIG	LLTAGGSGYV
hrv-91	WIEGNNYYPS	RFQSGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
hrv-92	WIEGGPYYPS	RYQVGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGSGYV
ef173425-93	WIEGSNYYPS	RYQQGVMKGV	GPAEPGDCGG	ILRCTHGPIG	LLTAGGSGYV

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hrv-97	WIEGNSYYPS	RYQQGVMKGV	GPAEPGDCGG	ILRCVHGPIG	LLTAGGGGFV
hrv-99	WIEGNNHYPS	RYQQGVMKGM	GPAEPGDCGG	ILRCTHGPIG	LLTAGGSGYV
	1051				1100
annotation	BBBBHHHH..	EQG.	.....	.....	.....
af499637-cva13	AFADIRDLY.	VEEEEAMEQG.	ITSYIESLGA	AFSGGFTTQI	SDKITELTSM
af546702-cva21	AFADIRDLWV	YEEEEAMEQG.	ITSYIESLGT	AFGAGFTHTI	SEKVTELTMM
v01149-pv1m	AFSDIRDLYA	YEEEEAMEQG.	ITNYIESLGA	AFSGGFTQQI	SDKITELTNM
d00239-01	AFTDLRQF..	..QCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEQINAINPI
pico-01	AFIDLRQF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEQINAINPI
hrv-01	AFIDLRQF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEQINAINPI
x02316-02	AFIDLRHF..	..HCAEEQG.	VTDYIHMLGE	AFGNGFVDSV	KEHIHAINPV
hrv-07	AFIDLRKF..	..QCAEEQG.	ISDYVEHLGQ	VFGVGFVDSI	KQQVNFNPT
dq473503-07	AFIDLRKF..	..QCAEEQG.	ISDYVEHLGQ	VFGVGFVDSI	KQQVNFNPT
hrv-08	AFIDLRKYR.	..ITEAEEQG.	ITDYVKSLGD	AFGVGFVEQI	KEQVSNINPL
pico-09	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	RDQVNAINPI
hrv-09	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	RDQVNAINPI
hrv-09-f01	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	REQVNAINPI
hrv-09-f02	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	REQVNAINPI
dq473498-10	AFIDLRQF..	..HCADEQG.	ITDYIHMLGE	AFGTGFVDSV	KEQINAINPI
hrv-10	AFIDLRQF..	..HCADEQG.	ITDYIHMLGE	AFGTGFVDSV	KEQINAINPI
ef173414-11	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
ef173415-12	AFIDLRDF..	..HVADEQG.	ISDYITNLGE	AFGQGFMSQV	KDQISELNPM
hrv-13	AFIDLRHF..	..LCAEEQG.	VTDYIHMLGE	AFGNGFVDSV	KEHVNAINPI
hrv-13-f03	AFIDLRHF..	..LCAEEQG.	VTDYIHMLGE	AFGNGFVDSV	KEHVNAINPI
dq473493-15	AFIDLRHF..	..HCAEEQG.	VTDYIHMLGE	AFGDGFVNSV	KEQISAINPV
l24917-16	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINSINPI
hrv-18	AFIDLRHF..	..QCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KDQINAINPI
hrv-19	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	RDQVNAINPI
hrv-20	AFIDLRDF..	..QVAEEQG.	ISDYVHTLGE	AFGAGFVDNI	KEQIQAINPI
hrv-21	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KEQINAINPI
hrv-22	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	REQVNAINPI
dq473497-23	AFIDLRQF..	..HCADEQG.	ITDYIHMLGE	AFGNGFVDSV	KEHVHAINPI
hrv-24	AFIDLRHF..	..HCADEQG.	ITDYIHMLGE	AFGNGFVDSV	KDQINAINPI
ef173416-24	AFIDLRHF..	..HCADEQG.	ITDYIHMLGE	AFGNGFVDSV	KDQINAINPI
hrv-25	AFIDLRQF..	..HCADEQG.	VTDYIHMLGE	AFGAGFVDSV	KEQINAINPI
dq473508-28	AFIDLRDF..	..LVAEEQG.	VLDYVHTLGE	AFGAGFVDNI	KEQIQAINPI
hrv-29	AFIDLRQF..	..HCADEQG.	ITDYIHMLGE	AFGTGFVDSV	KEQINAINPI
dq473512-30	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEHVQAINPI
hrv-30	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEHVQAINPI
hrv-31	AFIDLRQF..	..HCADEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
hrv-32	AFIDLRHF..	..HCAEEQG.	ITDYVHMLGE	AFGNGFVDSV	RDQVNAINPI
hrv-33	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
hrv-34	AFIDLRHF..	..HCAEEQG.	ITDYVHMLGE	AFGLGFVDSV	KDQINAINPI
dq473501-34	AFIDLRHF..	..HCAEEQG.	ITDYVHMLGE	AFGLGFVDSV	KDQINAINPI
dq473505-36	AFIDLRKF..	..QCAEEQG.	LSDYVEHLGQ	VFGVGFVDSI	KQQVNFNPT
hrv-38	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEQVNAINPI
dq473495-38	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEQVNAINPI
ay751783-39	AFIDLRHF..	..HCAEEQG.	VTDYIHMLGE	AFGNGFVDSV	KEHVKAINPV
hrv-40	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KDQISAINPI
dq473491-41	AFIDLRHF..	..LCAEEQG.	VTDYIHMLGE	AFGNGFVDSV	KEHVNAINPI
hrv-43	AFIDLRHF..	..HCAEEQG.	ITDYIHLLGE	AFGNGFVESV	KEQVNAINPI
dq473499-44	AFIDLRQF..	..HCADEQG.	ITDYIHMLGE	AFGTGFVDSV	KEQINAINPI
hrv-45	AFTDLRKYR.	..MVEAEEQG.	ITDYVKSLGD	AFGVGFVDQI	KEQINNINPL
dq473506-46	AFIDLRDF..	..QIAEEQG.	IPEYIHSGLGE	AFSGGFVDNI	KDQIQSINPI
hrv-47	AFIDLRQF..	..HCADEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
dq473496-49	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEHIHAINPV
hrv-49-f04	AFIDLRHF..	..HCAEEQG.	VTDYIHMLGE	AFGNGFVDSV	KEHIHAINPV

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hrv-50	AFIDLRHF..	..HCAEEQG.	ITDYVHMLGE	AFGLGFVDSV	KDQINAINPI
hrv-51	AFIDLRDF..	..HVADTQG.	ITDYVHNLGE	AFGAGFIDNI	REQUIQVINPI
dq473507-53	AFIDLRDF..	..QVAEEQG.	IPEYIHSLGE	AFSGGFVDNI	KDQIQITINPI
hrv-54	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KDQINAINPI
hrv-54-f05	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KDQINAINPI
dq473511-55	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
hrv-56	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KDQISAINPI
hrv-57	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEQINAINPI
hrv-58	AFIDLRKF..	..QCAEEQG.	LSDYVEHLGQ	VFGVGFVDSI	KEQVNFINPT
dq473500-59	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KEQISAINPV
hrv-60	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	RDQVNAINPI
hrv-61	AFIDLRHF..	..LCAEEQG.	VTDYIHMLGE	AFGNGFVDSV	KEHVNAINPV
hrv-62	AFIDLRQF..	..HCVDEQG.	VTDYIHMLGE	AFGAGFVDSV	KEQINAINPI
hrv-63	AFIDLRQF..	..HCAEEQG.	VTDYIHMLGE	AFGTGFVDSV	KEQINAINPI
hrv-64	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	REQVNAINPI
ef173417-64	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	REQVNAINPI
hrv-65	AFIDLRDF..	..HVADTQG.	ITDYVHNLGE	AFGAGFIDNI	REQUIQVINPI
hrv-66	AFIDLRHF..	..HCAEEQG.	ITDYIHTLGE	AFGTGFVDSV	KDQINAINPI
hrv-67	AFIDLRHF..	..HYAEEQG.	ITDYIHMLGE	AFGNGFVDSV	KEQVNAINPI
hrv-68	AFIDLRDF..	..QVAEEQG.	ISDYVHTLGE	AFGAGFVDNI	REQUIQVINPI
hrv-71	AFIDLRDF..	..HVAETQG.	ITDYIHNLGE	AFGAGFIDNI	KDQINVINPI
dq473492-73	AFIDLRHF..	..LCAEEQG.	VTDYIHMLGE	AFGNGFVDSV	KEHVNAINPI
dq473494-74	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	REQVNAINPI
dq473510-75	AFIDLRQF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVESV	KEQVSAINPI
dq473502-76	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
hrv-76	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
hrv-77	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KDQINAINPI
hrv-78	AFIDIRDF..	..QCAEEQG.	ISDYMQLGE	AFGTGFVDSV	REHVQSINPI
ef173418-78	AFIDIRDF..	..QCAEEQG.	ISDYMQLGE	AFGTGFVDSV	REHVQSINPI
hrv-80	AFIDLRDF..	..HCAENQG.	ISDYIHSLGE	AFGAGFIDNI	KDQIQITINPM
hrv-81	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINSINPI
hrv-81-f06	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KEQINSINPI
hrv-81-f07	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KEQINSINPI
hrv-82	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
dq473509-82	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
hrv-85	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KEQISAINPI
pico-85	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KEQISAINPI
dq473504-88	AFIDLRKF..	..QCAEEQG.	ISDYVEHLGQ	VFGVGFVDSI	KQQVNFINPT
a10937-89	AFIDLRKF..	..QCAEEQG.	LSDYVEHLGQ	VFGVGFVDSI	KQQVNFINPT
hrv-89	AFIDLRKF..	..QCAEEQG.	LSDYVEHLGQ	VFGVGFVDSI	KQQVNFINPT
hrv-89-f08	AFIDLRKF..	..QCAEEQG.	LSDYVEHLGQ	VFGVGFVDSI	KQQVNFINPT
hrv-89-f09	AFIDLRKF..	..QCAEEQG.	LSDYVEHLGQ	VFGVGFVDSI	KQQVNFINPT
m16248-89	AFIDLRKF..	..QCAEEQG.	LSDYVEHLGQ	VFGVGFVDSI	KQQVNFINPT
hrv-90	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFSGGFVDSV	KDQINAINPI
hrv-94	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	REQVNAINPI
ef173419-94	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGNGFVDSV	REQVNAINPI
hrv-95	AFIDLRKYR..	..ITEAEEQG.	ITDYVKSLGD	AFGVGFVEQI	KEQVSNINPL
hrv-96	AFIDLRHF..	..LCAEEQG.	VTDYIHMLGE	AFGNGFVDSV	KEHVNAINPV
hrv-98	AFIDLRHF..	..HCAEEQG.	ITDYIHMLGE	AFGTGFVDSV	KDQINAINPI
hrv-100	AFIDLRQF..	..HCVDEQG.	VTDYVHMLGE	AFGMGFVDSV	KDQINAINPI
ef186077-qpm	AFIDLRNY..	..SSLSEHQG.	ITDYVTQLGN	AFGDGFTSSI	RETLVSACDV
ef077279-nat001	AFIDLRNY..	..SSLSEHQG.	ITDYVTQLGS	AFGDGFTNSI	RDTLVGACDV
ny1078	AFIDLRNY..	..SSLSEHQG.	VTDYITQLGS	AFGDGFTSSI	RQTLMGACDV
ef582385-c024	AFTDLRPY..	..SCLDTHQGP	IQDYVTQLGS	AFSGGFTDTL	KDQLTDVSAH
ef077280-nat045	AFTDLRPY..	..NIKATSQGP	VTNYLNQLGS	AFGEGFTANI	KDQLATVGNT
ef582387-c026	AFIDLRNY..	..SSLSEHQG.	ITDYVTQLGN	AFGDGFTNSI	RETLVSACDV
ef582386-c025	AFTDLRPY..	..SSLAHTQGP	ISDYITQLGN	AFGTGFTQTL	ETNLKETCSG
dq473485-03	CFADIRQLD..	..FIADEQG.	LGDIYITSLGR	AFGTGFTDQI	SAKVCELQDV

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ef173422-03	CFADIRQLD.	..FIADEQG.	LGDYITSLGR	AFGTGFTDQI	SAKVCELQDV
dq473490-04	CFADIRMLE.	..LFKAHEYQG.	ISDYIVNLGK	AFGTGFTDHI	SEKVAELQNI
hrv-05	CFADIRALD.	..LFKAHEYQG.	ISDYILNLGK	AFGSGFTEHI	SEKVTELQNI
dq473486-06	CFADIRQLD.	..CIAEEQG.	LNDYITNLGR	AFGVGFTDQI	SAKVTELQDV
l05355-14	CFADIRQLE.	..CIAEEQG.	LSDYITGLGR	AFGVGFTDQI	STKVTELQEV
k02121-14	CFADIRQLE.	..CIAEEQG.	LSDYITGLGR	AFGVGFTDQI	STKVTELQEV
ef173420-17	CFADIRQLD.	..FIAETQG.	ITDYITSLGK	AFGVGFTDQI	SAKITELQDS
hrv-26	CFADIRTLTD.	..MFNAHEYQG.	ISDYILNLGK	AFGTGFTTEHI	SEKVTELQNI
hrv-27	CFADIRGLD.	..MFQAEYQG.	ISDYILNLGK	AFGTGFTDHI	SEKVSELQNI
ef173421-27	CFADIRGLD.	..MFQAEYQG.	ISDYILNLGK	AFGTGFTDHI	SEKVSELQNI
dq473487-35	CFADIRQLE.	..NVAEEQG.	LGDYITSLGR	AFGVGFTDQI	SAKVVELQDV
hrv-35	CFADIRQLE.	..NVAEEQG.	LGDYITSLGR	AFGVGFTDQI	SAKVVELQDV
ef173423-37	CFADIRQLD.	..CIAEEQG.	LNDYITSLGR	AFGVGFTDQI	SAKVTELQDV
hrv-42	CFADIRALD.	..MFKAHEYQG.	ISDYISNLGK	AFGTGFTTEHI	SEKVTELQNM
dq473488-48	CFADIRQLD.	..FIAETQG.	ITDYITSLGK	AFGVGFTDQI	SAKITELQDS
hrv-52	CFADIRQLD.	..FIAETQG.	ITDYITNLGK	AFGVGFTDQI	SAKVTELQDS
hrv-52-f10	CFADIRQLD.	..FIAETQG.	ITDYITNLGK	AFGVGFTDQI	SAKVTELQDS
ef173424-52	CFADIRQLD.	..FIAETQG.	ITDYITNLGK	AFGVGFTDQI	SAKVTELQDS
hrv-69	CFADIRQLD.	..FIAETQG.	ITDYITNLGK	AFGVGFTDQI	SAKVTELQDS
dq473489-70	CFADIRQLD.	..FIAETQG.	ITDYITSLGK	AFGVGFTDQI	SAKVTELQDS
hrv-72	CFADIRQLE.	..CIAEEQG.	ISDYITSLGR	AFGVGFTDQI	SAKVTELQDV
hrv-79	CFADIRQLE.	..QIAEEQG.	LGDYITSLGR	AFGVGFTDQI	SAKVTELQDV
hrv-83	CFADIRQLE.	..CIAEEQG.	LGDYITSLGR	AFGVGFTDQI	SAKVTELQDV
hrv-84	CFADIRMLD.	..MLHAHYQG.	IPDYITNLGR	AFGTGFTDHI	NDKIAELQST
hrv-86	CFADIRELE.	..CIAEEQG.	ISDYISNLGK	AFGAGFTDQI	TSKIGELQDT
hrv-91	CFADIRQLD.	..LIAETQG.	ITDYITSLGK	AFGVGFTDQI	SAKVSELQDS
hrv-92	CFADIRQLD.	..CIAEEQG.	LGDYITSLGR	AFGVGFTDQI	SAKVTELQDV
ef173425-93	CFADIRGLD.	..MFHAEYQG.	ISDYILNLGK	AFGTGFTDHI	SEKVSELQNI
hrv-97	CFADIRGLD.	..MFRAEYQG.	ISDYILNLGK	AFGTGFTDHI	SEKVSELQNI
hrv-99	CFADIRALD.	..MFEAEYQG.	ISDYILNLGK	AFGTGFTTEHI	SEKVTELQNI

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annotation					
af499637-cva13	VTSVLTEKLL	KNLIKLISSL	VIIITRNYEDT	TTVLATLALL	GCDVSPWAWL
af546702-cva21	VTSTITEKLL	KNLVKIVSAL	VIVVRNYEDT	TTILATLALL	GCDISPWQWL
v01149-pv1m	VTSTITEKLL	KNLIKIISL	VIIITRNYEDT	TTVLATLALL	GCDASPWQWL
d00239-01	NS..ISKKVI	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCNGSPWRFL
pico-01	NN..ISKKVI	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCNGSPWRFL
hrv-01	NN..ISKKVI	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCNGSPWRFL
x02316-02	GN..ISKKII	KWMLRIISAM	VIIIRNSSDP	QTILATLTLL	GCSGSPWRFL
hrv-07	SK..IGSKVI	KWLLRIVSAM	IIMVRNSSDP	QTIVATLTLL	GCSGSPWRFL
dq473503-07	SK..IGSKVI	KWLLRIVSAM	IIMVRNSSDP	QTIVATLTLL	GCSGSPWRFL
hrv-08	NK..ISAKVI	KWLIRVISAL	VIAVRSQGD	ATLSATLVLL	GCDSPWRFL
pico-09	NS..ISKKIV	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCSGSPWRFL
hrv-09	NN..ISKKIV	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCSGSPWRFL
hrv-09-f01	NN..ISKKII	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCSGSPWRFL
hrv-09-f02	NN..ISKKII	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCSGSPWRFL
dq473498-10	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCSGSPWRFL
hrv-10	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCSGSPWRFL
ef173414-11	NN..ISRKIV	KWILRIISAM	VIIIRNSSDP	QTIIATLTLL	GCSGSPWRFL
ef173415-12	NK..ITGKVL	KWTIRIISAL	TIVVRNSSDP	LTIVATLAML	GCNGSPWRFL
hrv-13	NN..ISKKVI	KWLLRIVSAM	VIIIRNSSDP	HTVVATLTLL	GCSGSPWRFL
hrv-13-f03	NN..ISKKVI	KWLLRIVSAM	VIIIRNSSDP	HTVVATLTLL	GCSGSPWRFL
dq473493-15	NN..ISKKIV	KWMLRIISAM	VIIIRNSSDP	QTVIATLTLL	GCSGSPWRFL
l24917-16	NN..ISSKMV	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCNGSPWRFL
hrv-18	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLL	GCSGSPWRFL
hrv-19	NN..ISKKLI	KWMLRIISAM	VIIIRNSSDP	QTIVATLTLL	GCSGSPWRFL
hrv-20	NK..ITSKII	KWTIRIVSAI	TIIIRNNADP	HTIIATLALL	GCSGSPWRFI

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hrv-21	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-22	NN..ISKKLIV	KWLLRIVSAM	VIIIRNSSDP	QTVIATLTLI	GCSGSPWRFL
dq473497-23	GN..ISKKIV	KWMLRIISAM	VIIIRNSSDP	QTIATLTLI	GCSGSPWRFL
hrv-24	NS..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIVATLTLI	GCSGSPWRFL
ef173416-24	NS..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIVATLTLI	GCSGSPWRFL
hrv-25	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473508-28	NK..ITSKII	KWTIRIISAI	TIIIRNNADP	HTIIATLALL	GCSGSPWRFI
hrv-29	NN..ISKKII	KWLLRVISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473512-30	GN..ISKKII	KWMLRVISAM	VIIIRNSSDP	QTIATLTLI	GCSGSPWRFL
hrv-30	GN..ISKKII	KWMLRVISAM	VIIIRNSSDP	QTIATLTLI	GCSGSPWRFL
hrv-31	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIVATLTLI	GCSGSPWRFL
hrv-32	NS..ISKKII	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-33	NN..ISRKIV	KWILRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-34	NG..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473501-34	NG..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473505-36	SK..IGSKVI	KWLLRIVSAM	IIMVRNSSDP	QTIIATLTLL	GCSGSPWRFL
hrv-38	NN..VSKKII	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473495-38	NN..VSKKII	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
ay751783-39	GN..ISKKII	KWMLRIISAM	VIIIRNSSDP	QTIATLTLI	GCSGSPWRFL
hrv-40	NN..ISKKVI	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473491-41	NN..ISKKVI	KWLLRIVSAM	VIIIRNSSDP	HTVVATLTLI	GCSGSPWRFL
hrv-43	NN..ISKKMV	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473499-44	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-45	NK..ISAKVI	KWLIRVISAL	VIAVRSQGD	ATLSATLLLL	GCSNSPWRFL
dq473506-46	NK..ITSKII	KWVIRIISAV	TIIIRNSADP	HTIVATLALL	GCSGSPWRFI
hrv-47	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473496-49	GN..VSKKII	KWMLRIISAM	VIIIRNSSDP	QTIATLTLI	GCSGSPWRFL
hrv-49-f04	GN..ISKKII	KWMLRIISAM	VIIIRNSSDP	QTIATLTLI	GCSGSPWRFL
hrv-50	NS..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-51	NK..ITGKIV	KWIIRIISAI	TIIIRNSADP	HTVVATLALI	GCSGSPWRFI
dq473507-53	NK..ISSKIV	KWVIRIISAI	TIIIRNNADP	HTIVATLALL	GCSGSPWRFI
hrv-54	NS..ISKKVI	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-54-f05	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473511-55	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-56	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-57	NS..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-58	SK..IGSKVV	KWLLRIVSAM	IIMVRNSSDP	QTIIATLTLL	GCSGSPWKFL
dq473500-59	NN..ISKKII	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-60	NN..ISKKLI	KWMLRIISAM	VIIIRNSSDP	QTIVATLTLI	GCSGSPWRFL
hrv-61	NN..ISKKVI	KWLLRIVSAM	VIIIRNSSDP	QTVVATLTLI	GCSGSPWRFL
hrv-62	NS..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-63	NN..ISKKII	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-64	NN..ISKKLI	KWLLRIVSAM	VIIIRNSSDP	QTVIATLTLI	GCSGSPWRFL
ef173417-64	NN..ISKKLI	KWLLRIVSAM	VIIIRNSSDP	QTVIATLTLI	GCSGSPWRFL
hrv-65	NK..VTSKIV	KWIIRIISAI	TIIIVRNNADP	HTIIATLALL	GCSGSPWRFI
hrv-66	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-67	NN..ISKKII	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-68	NK..ITSKIV	KWTIRIVSAI	TIIIRNNADP	HTIVATLALL	GCSGSPWRFI
hrv-71	NK..ITSKIV	KWIIRIISAM	TIIIRNSADP	HTIIATLALI	GCSGSPWRFI
dq473492-73	NS..ISKKVI	KWLLRIVSAM	VIIIRNSSDP	HTVIATLTLI	GCSGSPWRFL
dq473494-74	NN..ISKKIV	KWMLRIISAM	VIIIRNCSDP	QTIIATLTLI	GCSGSPWRFL
dq473510-75	NN..ISKKIV	KWILRIISAM	VIIIRNNSDP	QTIIATLTLI	GCSGSPWRFL
dq473502-76	NN..ISRKIV	KWILRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-76	NN..ISRKIV	KWILRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-77	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-78	NK..INSKMV	KWLLRIISAM	VIIIRNNADP	QTIIATLTLL	GCSGSPWRFL
ef173418-78	NK..INSKMV	KWLLRIISAM	VIIIRNNADP	QTIIATLTLL	GCSGSPWRFL
hrv-80	NK..ITSKIV	KWLIRIISAV	TIIIRNNADP	HTIIATLALI	GCSGSPWRFI

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hrv-81	NS..ISSKMV	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCNGSPWRFL
hrv-81-f06	NS..ISSKMV	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCNGSPWRFL
hrv-81-f07	NS..ISSKMV	KWMLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCNGSPWRFL
hrv-82	NN..ISKKL	KWILRIISAM	VIIIRNSSDP	QTVIATLTLI	GCSGSPWRFL
dq473509-82	NN..ISKKL	KWILRIISAM	VIIIRNSSDP	QTVIATLTLI	GCSGSPWRFL
hrv-85	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
pico-85	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
dq473504-88	SK..IGSKVI	KWLLRIVSAM	IIMIRNSSDP	QTIVATLTLL	GCSGSPWRFL
a10937-89	SK..IGSKVI	KWLLRIVSAM	IIMVRNSSDP	QTVIATLTLL	GCSGSPWRFL
hrv-89	SK..IGSKVI	KWLLRIVSAM	IIMVRNSSDP	QTVIATLTLL	GCSGSPWRFL
hrv-89-f08	SK..IGSKVI	KWLLRIVSAM	IIMVRNSSDP	QTVIATLTLL	GCSGSPWRFL
hrv-89-f09	SK..IGSKVI	KWLLRIVSAM	IIMVRNSSDP	QTVIATLTLL	GCSGSPWRFL
m16248-89	SK..IGSKVI	KWLLRIVSAM	IIMVRNSSDP	QTVIATLTLL	GCSGSPWRFL
hrv-90	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-94	NN..ISKKL	KWLLRIVSAM	VIIIRNSSDP	QTVIATLTLI	GCSGSPWRFL
ef173419-94	NN..ISKKL	KWLLRIVSAM	VIIIRNSSDP	QTVIATLTLI	GCSGSPWRFL
hrv-95	NK..ISAKVI	KWLIRVISAL	VIAVRSQGD	ATLSATLVLL	GCDSPWRFL
hrv-96	NS..ISKKVI	KWLLRIVSAM	VIIIRNSSDP	QTVVATLTLI	GCSGSPWRFL
hrv-98	NN..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
hrv-100	NG..ISKKII	KWLLRIISAM	VIIIRNSSDP	QTIIATLTLI	GCSGSPWRFL
ef186077-qpm	S.DKLTGKII	KWTIRLISAL	SIIVRNSTD	PTVIATLALL	GCSGSPWRYL
ef077279-nat001	S.DKLTGKII	KWTIRLISAL	SIIVRNSTD	PTVIATLALL	GCSGSPWRYL
ny1078	S.DKLTGKII	KWTIRLISAL	SIIVRNSTD	PTIIATLALL	GCSGSPWRYL
ef582385-c024	IKDKITSKVV	KWLVRIISAL	TIMIRNSTDT	PTVLATLALL	GCHKSPWSFL
ef077280-nat045	IMDGLTNKVV	KWLIRIISAM	TIMIRNSTDT	PTVLATLALL	GCHESPWAF
ef582387-c026	S.DKLTGKII	KWTIRLISAL	SIIVRNSTD	PTIIATLALL	GCSGSPWRYL
ef582386-c025	MFDAITSKTV	KWIVRIISAL	TIVIRNSTDT	PTVLATMALL	GCTGSPWQYL
dq473485-03	AKDFLTTKVL	SKVVKMISAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
ef173422-03	AKDFLTTKVL	SKVVKMISAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
dq473490-04	SMGYLNTKVL	SKIIVKIVSAL	VIICRNHDDL	ITVTATLALL	GCDGSPWRYL
hrv-05	SMGYLNTKVL	SKIIVKIVSAL	VIICRNHDDL	ITVTATLALL	GCDGSPWRYL
dq473486-06	AKDFLTTKVL	SKVVKMISAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
l05355-14	AKDFLTTKVL	SKVVKMVSAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
k02121-14	AKDFLTTKVL	SKVVKMVSAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
ef173420-17	AKDYINVKIL	SKVVKMISAL	VIICRNHEDL	VTVTATLALL	GCDGSPWRFL
hrv-26	SMGYLNTKVL	SKIIVKIVSAL	VIICRNHDDL	ITVTATLALL	GCDGSPWRYL
hrv-27	TMGCLNTKVL	SKVIKIVSAL	VIICRNHEDL	VTVTATLALL	GCDGSPWRFL
ef173421-27	TMGCLNTKVL	SKVIKIVSAL	VIICRNHEDL	VTVTATLALL	GCDGSPWRFL
dq473487-35	AKDFLTTKVL	SKVVKMISAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
hrv-35	AKDFLTTKVL	SKVVKMISAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
ef173423-37	AKDFLTTKVL	SKVVKMISAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
hrv-42	SLGYLNTKVL	SKIIVKIVSAL	VIICRNHDDL	ITVTATLALL	GCDGSPWRYL
dq473488-48	AKDYINVKIL	SKVVKMVSAL	VIICRNHEDL	ITVTATLALL	GCDGSPWRFL
hrv-52	VKDYINVKIL	SKVVKMVSAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
hrv-52-f10	VKDYINVKIL	SKVVKMVSAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
ef173424-52	VKDYINVKIL	SKVVKMVSAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
hrv-69	VKDYINVKIL	SKVVKMISAL	VIICRNHDDL	ITVTATLALL	GCDGSPWRFL
dq473489-70	VKDYINVKIL	SKVVKMISAL	VIICRNHEDL	VTVTATLALL	GCDGSPWRFL
hrv-72	AKDFLTTKVL	SKVVKMVSAL	VIICRNHEDL	VTVTATLALL	GCDGSPWRFL
hrv-79	AKDFLTTKVL	SKVVKMISAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
hrv-83	AKDFLTTKVL	SKVVKMISAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
hrv-84	TTNYLNTKVL	SKVVKIVSAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
hrv-86	VKDYLTTKML	SKVVKMVSAL	VIICRNHEDL	VTVTATLALL	GCDGSPWRFL
hrv-91	VKDYINVKIL	SKVVKMISAL	VIICRNHEDL	VTVTATLALL	GCDGSPWRFL
hrv-92	AKDFLTTKVL	SKVVKMISAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
ef173425-93	TMGYLNTKVL	SKVIKIVSAL	VIICRNHDDL	VTVTATLALL	GCDGSPWRFL
hrv-97	TMGYLNTKVL	SKVIKIVSAL	VIICRNHEDL	VTVTATLALL	GCDGSPWRFL
hrv-99	SMGYLNTKVL	SKIIVKIVSAL	VIICRNHDDL	ITVTATLALL	GCDGSPWRYL

	1151			1200
annotation	.....	.....ES..	.....	.....
af499637-cva13	KKKVC DILEI	.PFV LKQG.D	SWMKKFTEAC	NAAKGLEWIS NKISKFIDWI
af546702-cva21	KKKACDLLEI	.PYVMRQG.D	GWMKKFTEAC	NAAKGLEWIS NKISKFVDWL
v01149-pv1m	RKKACDVLEI	.PYVIKQG.D	SWLKKFTEAC	NAAKGLEWVS NKISKFIDWL
d00239-01	KEKFC KWTQL	.TYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
pico-01	KEKFC KWTQL	.TYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
hrv-01	KEKFC KWTQL	.TYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
x02316-02	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEAC	NAARGLEWIG NKISKFIEWM
hrv-07	KEKFC SWLQL	.NYI HKES.D	SWLKKFTEAC	NAARGLEWIG QKISKFIDWI
dq473503-07	KEKFC SWLQL	.NYI HKES.D	SWLKKFTEAC	NAARGLEWIG QKISKFIDWI
hrv-08	KQKVC QWLDL	.RYV HKES.D	GWIKKFTEMC	NAARGLEWIG CKISKFIDWL
pico-09	KEKFC KWTQL	.NYV HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
hrv-09	KEKFC KWTQL	.NYV HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
hrv-09-f01	KEKFC KWTQL	.NYV HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
hrv-09-f02	KEKFC KWTQL	.NYV HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
dq473498-10	KEKFC KWTQL	.TYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-10	KEKFC KWTQL	.TYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
ef173414-11	KEKFC KWTQL	.NYV HKES.D	TWLKKFTEMC	NAARGLEWIG NKISKFIEWM
ef173415-12	KEKIC KWFQL	.NYV HKES.D	GWLKKFTEMC	NAARGLEWIG NKISKFIDWL
hrv-13	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-13-f03	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
dq473493-15	KEKFC KWTQL	.NYV HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
l24917-16	KEKFC KWTQL	.TYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
hrv-18	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-19	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
hrv-20	KEKVC NWLQL	.VYV HKES.D	GWIKKFTEMC	NAARGLEWLG NKISKFIDWL
hrv-21	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
hrv-22	KEKFC KWTQL	.NYV HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
dq473497-23	KEKFC KWTQL	.SYI HKES.D	SWLKKFTEAC	NAARGLEWIG NKISKFIEWM
hrv-24	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
ef173416-24	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-25	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
dq473508-28	KEKAC NWLQL	.VYI HKES.D	GWIKKFTEMC	NAARGLEWLG NKISKFIDWL
hrv-29	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
dq473512-30	REKFC KGTQL	.SYI HKES.D	SWLKKFTEAC	NAARGLEWIG NKISKFIEWM
hrv-30	KEKFC KWTQL	.SYI HKES.D	SWLKKFTEAC	NAARGLEWIG NKISKFIEWM
hrv-31	KERFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-32	KEKFC KWTQL	.NYV HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
hrv-33	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-34	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
dq473501-34	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
dq473505-36	KEKLC AWLQL	.SYV HKQS.D	SWLKKFTEAC	NAARGLEWIG QKISKFIDWI
hrv-38	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
dq473495-38	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
ay751783-39	KEKFC KWTQL	.TYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-40	KEKFC KWTEL	.TYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIDWM
dq473491-41	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-43	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
dq473499-44	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-45	KQKVC TWLGL	.RYI HKES.D	GWIKKFTEMC	NAARGLEWIG CKISKFIDWL
dq473506-46	KEKVC GWLQL	.TYI HKES.D	GWIKKFTEMC	NAARGLEWLG NKISKFIDWL
hrv-47	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
dq473496-49	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEAC	NAARGLEWIG NKISKFIEWM
hrv-49-f04	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEAC	NAARGLEWIG NKISKFIEWM
hrv-50	KEKFC KWTQL	.NYI HKES.D	SWLKKFTEMC	NAARGLEWIG NKISKFIEWM
hrv-51	KEKVC NWLQL	.SYV HKES.D	GWIKKFTEMC	NAARGLEWLG NKISKFIDWV

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dq473507-53	KEKVCGLQL	.NYIHKES.D	GWIKKFTEMC	NAARGLEWLG	NKISKFIDWL
hrv-54	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-54-f05	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
dq473511-55	KEKFCCKWTQL	.NYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-56	KEKFCCKWTQL	.NYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-57	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-58	KEKFCACLQL	.NYVHKQS.D	SWLKKFTEAC	NAARGLEWIG	QKISKFIDWI
dq473500-59	KEKFCCKWTQL	.NYIHKES.D	TWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-60	KEKFCCKWTQL	.TYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-61	KEKFCCKWTQL	.TYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-62	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-63	KEKFCCKWTQL	.NYIHKES.D	TWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-64	KEKFCCKWTQL	.NYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
ef173417-64	KEKFCCKWTQL	.NYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-65	KEKVCNWLHL	.NYIHKES.D	GWIKKFTEMC	NAARGLEWLG	NKISKFIDWF
hrv-66	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-67	KEKFCCKWTQL	.NYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-68	KEKICNWLQL	.VYIHKES.D	GWIKKFTEMC	NAARGLEWLG	NKISKFIDWL
hrv-71	KDKVCKWLQL	.TYVHKES.D	GWIKKFTEMC	NAARGLEWLG	NKISKFIDWF
dq473492-73	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
dq473494-74	KEKFCCKWTQL	.SYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
dq473510-75	KEKFCCKWTQL	.SYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
dq473502-76	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-76	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-77	KEKFCCKWTQL	.NYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-78	KNKFCNWFGL	.TYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWI
ef173418-78	KNKFCNWFGL	.TYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWI
hrv-80	KEKVCNWLQL	.NYVHKES.D	NWVKKFTEMC	NAARGLEWLG	NKISKFIDWV
hrv-81	KEKFCCKWTQL	.TYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-81-f06	KEKFCCKWTQL	.TYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-81-f07	KEKFCCKWTQL	.TYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-82	KEKFCCKWTQL	.HYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
dq473509-82	KEKFCCKWTQL	.HYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-85	KEKFCCKWTQL	.TYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
pico-85	KEKFCCKWTQL	.TYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
dq473504-88	KEKFCCLQL	.NYVHKES.D	SWLKKFTEAC	NAARGLEWIG	QKISKFIDWI
a10937-89	KEKLCACLQL	.SYVHKQS.D	SWLKKFTEAC	NAARGLEWIG	QKISKFIDWI
hrv-89	KEKLCACLQL	.SYVHKQS.D	SWLKKFTEAC	NAARGLEWIG	QKISKFIDWI
hrv-89-f08	KEKLCACLQL	.SYVHKQS.D	SWLKKFTEAC	NAARGLEWIG	QKISKFIDWI
hrv-89-f09	KEKLCACLQL	.SYVHKQS.D	SWLKKFTEAC	NAARGLEWIG	QKISKFIDWI
m16248-89	KEKLCACLQL	.SYVHKQS.D	SWLKKFTEAC	NAARGLEWIG	QKISKFIDWI
hrv-90	KEKFCCKWTQL	.NYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-94	KEKFCCKWTQL	.NYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
ef173419-94	KEKFCCKWTQL	.NYVHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-95	KQKVCQWLGL	.RYVHKES.D	GWIKKFTEMC	NAARGLEWIG	CKISKFIDWL
hrv-96	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
hrv-98	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIDWM
hrv-100	KEKFCCKWTQL	.NYIHKES.D	SWLKKFTEMC	NAARGLEWIG	NKISKFIEWM
ef186077-qpm	KDKVCKWLGI	DPPPSRQS.D	SWLKKFTEFC	NAARGLEWIG	DKLSKFIDWL
ef077279-nat001	KDKVCKWLGI	DPPPSRQG.D	SWLKKFTEFC	NAARGLEWIG	DKLSKFIDWL
ny1078	KDKVCRWLGI	DPPPSRQG.D	SWLKKFTEFC	NAARGLEWIG	DKLSKFIDWL
ef582385-c024	KDRLCQWLNI	TRPPSRQG.D	GWLKKFTECC	NAARGLEWIG	IKISKFIEWL
ef077280-nat045	KSKVCKWLGI	NPPAKRQG.D	SWLKKFTEWC	NAARGLEWVG	QKISRFDWL
ef582387-c026	KDKVCKWLGI	DPPPSKQG.D	SWLKKFTEFC	NAARGLEWIG	DKLSKFIDWL
ef582386-c025	KTCLCAWLGV	QKPPSKQS.D	SWLKKFTEWC	NAARGLEWIG	YKISKFIDWL
dq473485-03	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAARGLEWIA	NKISKLIEWI
ef173422-03	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAARGLEWIA	NKISKLIEWI
dq473490-04	KMYISKHFCL	.PYIERQSN	LWFKKFNDMC	NAARGLEWIA	NKISKLIDWV

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hrv-05	KMYISKHFCL	.PYIERQSN	WLFKKFNDMC	NAAKGLEWIA	NKISKLIEWV
dq473486-06	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIGWI
l05355-14	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
k02121-14	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
ef173420-17	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWV
hrv-26	KMYISKHFCL	.PYIERQSN	WLFKKFNDMC	NAAKGLEWIA	NKISKLIEWV
hrv-27	KMYISKHFHL	.PYIERQSN	WLFKKFNDMC	NAAKGLEWIA	NKISKLIDWI
ef173421-27	KMYISKHFHL	.PYIERQSN	WLFKKFNDMC	NAAKGLEWIA	NKISKLIDWI
dq473487-35	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
hrv-35	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
ef173423-37	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
hrv-42	KMYISKHFCL	.PYIERQSN	WLFKKFNDMC	NAAKGLEWIA	NKISKLIDWV
dq473488-48	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWV
hrv-52	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWV
hrv-52-f10	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWV
ef173424-52	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWV
hrv-69	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWV
dq473489-70	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
hrv-72	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWV
hrv-79	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
hrv-83	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
hrv-84	KMYISKHFHL	.PYIERQSN	WLFKKFNDMC	NAAKGLEWIA	NKISKLIDWI
hrv-86	KMYVSKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKFIDWV
hrv-91	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
hrv-92	KMYISKHFQV	.PYIERQAND	GWFRKFNDAC	NAAKGLEWIA	NKISKLIEWI
ef173425-93	KMYISKHFHL	.PYIERQSN	WLFKKFNDMC	NAAKGLEWIA	NKISKLIEWV
hrv-97	KMYISKHFHL	.PYIERQSN	WLFKKFNDMC	NAAKGLEWIA	NKISKLIDWI
hrv-99	KMYISKHFCL	.PYIERQSN	WLFKKFNDMC	NAAKGLEWIA	NKISKLIEWV

1201

1250

annotation	.....	.....	.....	.....	.....
af499637-cva13	KTKIIPPEAR	KVEYVTKLKQ	LGMLNQINT	IHQSCP.SQE	QQEILFNNVR
af546702-cva21	KCKIIPDAKD	KVEFLTKLKQ	LDMLNQIAT	IHQSCP.SQE	QQEILFNNVR
v01149-pv1m	KEKIIPQARD	KLEFVTKLRQ	LEMLNQIST	IHQSCP.SQE	HQEILFNNVR
d00239-01	KS.MLPQAQL	KVKYLNEIKK	LSLLEKQIEN	LRAADNATQE	K...IKCEID
pico-01	KS.MLPQAQL	KVKYLNEIKK	LSLLEKQIEN	LRAADSATQE	K...IKCEID
hrv-01	KS.MLPQAQL	KVKYLNEIKK	LSLLEKQIEN	LRAADSATQE	K...IKCEID
x02316-02	KS.MLPQAQL	KVKYLNELKK	LNLYEKQVES	LRVADMKTQE	K...IKMEID
hrv-07	KS.MLPQAQL	KVEYLNKLKQ	LNLLEKQIET	IRLAPTCNQE	K...IFCDIN
dq473503-07	KS.MLPQAQL	KVEYLNKLKQ	LNLLEKQIET	IRLAPTCNQE	K...IFCDIN
hrv-08	KS.MLPQAQN	KIKFLQFTKQ	LQLKEKQIDG	LPYATIKQQE	E...YLQEME
pico-09	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIDN	LRCADTKVQE	K...IKFEIE
hrv-09	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIDN	LRCADTKVQE	K...IKFEID
hrv-09-f01	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIDN	LRCADTKVQE	K...IKFEIE
hrv-09-f02	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIDN	LRCADTKVQE	K...IKFEIE
dq473498-10	KS.MLPQAQL	KVKYLSELKK	LSFLEKQMEH	LRVADSKTQE	K...IKHEVD
hrv-10	KS.MLPQAQL	KVKYLSELKK	LSFLEKQMEH	LRVADSKTQE	K...IKHEVD
ef173414-11	KS.MLPQAQL	KIKYLNELKK	LNLLEKQIEH	LRIADSNTQE	K...IKCEID
ef173415-12	KA.MLPQTQL	KLEYLKLKQ	LPLLEKQIDG	LRAATEKQRE	D...YTETIS
hrv-13	KS.MLPQAQL	KVKYLNELKK	LNLLEKQVEN	LRCADTKTQE	K...IKVEID
hrv-13-f03	KS.MLPQAQL	KVKYLNELKK	LNLLEKQVEN	LRCADTKTQE	K...IKVEVD
dq473493-15	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEN	LRGADTKTQD	K...IKFEID
l24917-16	KS.MLPQAQL	KVKYLSELKK	LNLFLEKQVEN	LRAADTNTQE	K...IKCEID
hrv-18	KS.MLPQAQL	KVKYLSELKK	LSFLEKQMEH	LRVADSKTQE	K...IKHEID
hrv-19	KS.MLPQAQL	KVKYLSELKK	LGFLEKQIEN	LRCADTKTQE	K...IKLEID
hrv-20	KS.MLPQAKL	KVEFIKNLQ	LPLLEKQVDG	LRLATQKQQQ	D...YIDTLT
hrv-21	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEH	LRAADSATQE	K...IKCEID
hrv-22	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEN	LRGADSKTQE	K...IKLEID

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dq473497-23	KS.MLPQAQL	KVKYLNELKK	LSLYEKQVES	LRVADIKTQE	K...IKMEID
hrv-24	KS.MLPQAQL	KIKYLSELKK	LNLLEKQIEH	LRIADSSTQE	K...IKCEID
ef173416-24	KS.MLPQAQL	KIKYLSELKK	LNLLEKQIEH	LRIADSSTQE	K...IKCEID
hrv-25	KS.MLPQAQL	KVKYLSELKK	LNFLEKQMEH	LRVADSQTQE	K...IKHEID
dq473508-28	KS.MLPQAKL	KMEFIKNLQ	LPLLEKQVDG	LRLATQKQQQ	D...YIDILT
hrv-29	KS.MLPQAQL	KVKYLSELKK	LSFLEKQMEH	LRVADTQTQE	K...IKHEID
dq473512-30	KS.MLPQAQL	KVKYLNELKK	LSLYEKQVES	LRVADIKTQE	K...IKMEID
hrv-30	KS.MLPQAQL	KVKYLNELKK	LSLYEKQVES	LRVADIKTQE	K...IKMEID
hrv-31	KS.MLPQAQL	KIKYLSELKK	LSFLEKQIEY	LRVADSQTQE	K...IKCEID
hrv-32	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIDN	LRCADTKVQE	K...IKFEID
hrv-33	KS.MLPQAQL	KIKYLSELKK	LNLLEKQIEH	LRIADSSTQE	K...IKCEID
hrv-34	KS.MLPQAQL	KVKYLNELKK	LSFLEKQMEH	LRVADSQTQE	K...IKCEID
dq473501-34	KS.MLPQAQL	KVKYLNELKK	LSFLEKQMEH	LRVADSQTQE	K...IKCEID
dq473505-36	KS.MLPQAQL	KVDYLTCLKQ	LNLLEKQIET	ITLAPANDQE	K...IFTEIN
hrv-38	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIDN	LRCADSKVQE	K...IKLEID
dq473495-38	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIDN	LRCADSKVQE	K...IKLEID
ay751783-39	KS.MLPQAQL	KVKYLNELKR	LNLYEKQVEN	LRVADIKTQE	K...IKMEID
hrv-40	KS.MLPQAQL	KVKYLSELKK	LSFLEKQMEH	LRVADSQTQE	K...IKHEID
dq473491-41	RS.MLPQAQL	KVKYLSELKK	LNLLEKQVEN	LRCADSKTQE	K...IKIEVD
hrv-43	KS.MLPQAQL	KVKYLAELKK	LNLLEKQIEN	LRGADTNTQE	K...IKLEID
dq473499-44	KS.MLPQAQL	KVKYLSELKK	LSFLEKQIEH	LRVADTQTQE	K...IKHEID
hrv-45	KS.MLPQAQN	KIKFLHFMKQ	LQLKEKQIDG	LPYATVKQQE	D...YLKEME
dq473506-46	KS.MLPQARL	KVDFIKNLKQ	LPLLEKQVDG	LRLATQKQQQ	E...YIDTTL
hrv-47	KS.MLPQAQL	KVKYLSELKK	LSFLEKQIEH	LRVADSQTQE	K...IKCEID
dq473496-49	KS.MLPQAQL	KVKYLNELKK	LSLYEKQVES	LRVADVRTQE	K...IKMEID
hrv-49-f04	KS.MLPQAQL	KVKYLNELKK	LSLYEKQVES	LRIADVRTQE	K...IKMEID
hrv-50	KS.MLPQAQL	KIKYLSELKK	LNFLEKQMEH	LRVADSQIQE	K...IKHEVD
hrv-51	KS.MLPQAKL	KVEYIKNLKQ	LPLLEKEIDG	LRLASQKQQQ	E...YIDTLR
dq473507-53	KS.MLPQARL	KVDFIKNLKQ	LPLLEKQVDG	LRLATQKQQQ	E...YIDTTL
hrv-54	KS.MLPQAQL	KIKYLSELKK	LNFLEKQMEH	LRVADSQTQE	K...IKHEID
hrv-54-f05	KS.MLPQAQL	KIKYLSELKK	LNLLEKQMEH	LRVADSQTQE	K...IKHEID
dq473511-55	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEH	LRAADSATQE	K...IKCEID
hrv-56	KS.MLPQAQL	KIKYLSELKK	LNFLEKQMEH	LRIADSQTQE	K...IKHEVD
hrv-57	KS.MLPQAQL	KIKYLSELKK	LNLLEKQIEH	LRVADSATQE	K...IKCEID
hrv-58	KG.MLPQAQL	KVDYLTCLKQ	LNLLEKQIET	IRLAPANDQE	K...IFTEIS
dq473500-59	KS.MLPQAQL	KVKYLEGLKK	LNFLEKQIEH	LRVADSQTQE	K...IKCEID
hrv-60	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEN	LRGADTNTQE	K...IKLEID
hrv-61	KS.MLPQAQL	KVKYLNELKK	LNLLEKQIEN	LRSADSKTQE	R...IKVEID
hrv-62	KS.MLPQAQL	KVKYLSELKK	LSFLEKQMEH	LRVADSQTQE	K...IKHEID
hrv-63	KS.MLPQAQL	KVKYLKELKK	LNFLEKQIEH	LRVADSQTQE	K...IKCEID
hrv-64	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEN	LRGADTKTQE	K...IKLEID
ef173417-64	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEN	LRGADTKTQE	K...IKLEID
hrv-65	KS.MLPQAKL	KVEYIKNLKQ	LPLLEKEIDG	LRLASQKQQQ	D...YIDTLK
hrv-66	KS.MLPQAQL	KVKYLSELKK	LNFLEKQIEH	LRVADSKTQE	K...IKHEID
hrv-67	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIDN	LRCADTKVQE	K...IKFEID
hrv-68	KS.MLPQAKL	KVEFIKNLQ	LPLLEKQVDG	LRLATQKQQQ	D...YVDTLT
hrv-71	KS.MLPQAKL	KVEYIKNLKQ	LPLLEKQIDG	LRLAPQKQQQ	E...YIDTLR
dq473492-73	KS.MLPQAQL	KVKYLNELKK	LSLLEKQVEN	LRCADTKTQE	K...IKVEID
dq473494-74	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEN	LRSADTKTQE	K...IKLEID
dq473510-75	KS.MLPQAQL	KVKYLSELRK	LNLLEKQIEN	LRAADANTQE	K...IKLEID
dq473502-76	KS.MLPQAQL	KIKYLSELKK	LNLLEKQIEH	LRIADSSTQG	K...IKCEID
hrv-76	KS.MLPQAQL	KIKYLSELKK	LNLLEKQIEH	LRIADSSTQE	K...IKCEID
hrv-77	KS.MLPQAQL	KVKYLSELKK	LNFLEKQIEY	LRVADSRTE	K...IKHEID
hrv-78	KS.MLPQAKL	KVTYIQSLKQ	LPLLEKSVDG	LRLANPEKQY	L...FLKQIE
ef173418-78	KS.MLPQAKL	KVTYIQSLKQ	LPLLEKSVDG	LRLANPEKQY	L...FLKQIE
hrv-80	KS.MLPQAKL	KVEFIKMLKQ	LPLLEKEIDG	LRLASQKQQQ	E...YVETLR
hrv-81	KS.MLPQAQL	KVKYLNELKK	LNLLEKQIEN	LRAADANSQE	K...IKCEID
hrv-81-f06	KS.MLPQAQL	KVKYLNELKK	LNLLEKQIEN	LRAADTNTQE	K...IKCEID

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hrv-81-f07	KS.MLPQAQL	KVKYLNELKK	LNLLEKQIEN	LRAADTNTQE	K...IKCEID
hrv-82	KS.MLPQAQL	KVKYLNELKK	LSLLEKQIEN	LRCADTKTQE	K...IKVEVD
dq473509-82	KS.MLPQAQL	KVKYLNELKK	LSLLEKQIEN	LRCADAKTQE	K...IKVEVD
hrv-85	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEH	LRVADSHTQE	K...IKHEID
pico-85	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEH	LRVADSHTQE	K...IKHEID
dq473504-88	KS.MLPQAQL	KVDYLTCLKQ	LNLLEKQIES	IRLAPSCDQE	K...IFNEIN
a10937-89	KS.MLPQAQL	KIDYLTCLKQ	LNLLEKQIET	IRLAPASVQE	K...IFIEIN
hrv-89	KS.MLPQAQL	KIDYLTCLKQ	LNLLEKQIET	IRLAPASVQE	K...IFIEIN
hrv-89-f08	KS.MLPQAQL	KIDYLTCLKQ	LNLLEKQIET	IRLAPASDQE	K...IYIEIN
hrv-89-f09	KS.MLPQAQL	KIDYLTCLKQ	LNLLEKQIET	IRLAPASDQE	K...IYIEIN
m16248-89	KS.MLPQAQL	KIDYLTCLKQ	LNLLEKQIET	IRLAPASVQE	K...IFIEIN
hrv-90	KS.MLPQAQL	KIKYLAELKK	LNFLEKQIEH	LRVADSKTQE	K...IKCEVD
hrv-94	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEN	LRGADTRTQE	K...IKLEID
ef173419-94	KS.MLPQAQL	KVKYLSELKK	LNLLEKQIEN	LRGADTRTQE	K...IKLEID
hrv-95	KS.MLPQAQN	KIKFLQFTKQ	LQLKEKQIDG	LPYATIKQQE	E...YLQEME
hrv-96	KS.MLPQAQL	KVKYLNELKK	LNLLEKQIEN	LRSADSKTQE	R...IKIEID
hrv-98	KS.MLPQAQL	KIKYLSSELKK	LSFLEKQMEH	LRVADSQTQE	K...IKHEID
hrv-100	KS.MLPQAQL	KVKYLSELKK	LSFLEKQMEH	LRVADTQTQE	K...IKHEID
ef186077-qpm	KGKILPTLRR	KSDTLKECKK	IPLYKEQVKA	FATASEEAQD	E...LMVKVN
ef077279-nat001	KGKILPTLRR	KSDTLKECKK	IPLYKEQVKA	FATASEEAQD	E...LLVKVS
ny1078	KGKILPTLRR	KSETLKECKK	IPLYKEQVRA	FATASEDAQD	E...LMVNIS
ef582385-c024	KNRLLPTLQH	KKEILDCECKK	IDLYQEQQVG	FSKVDEPAQQ	E...LLIKVE
ef077280-nat045	KERVLPVKS	KKEILDHCKK	IPLYQEQQIKG	FPYATQESQE	E...LALNID
ef582387-c026	KGKILPTLRR	KSDTLKECKK	IPLYKEQVKA	FATASEEAQD	E...LIVKVN
ef582386-c025	KEKLIPTVQR	KKDTLLECKK	LTLYEDQVKA	FPQSSEIFQN	E...LTTKLQ
dq473485-03	KNKVLPQARE	KLEFCSKLLQ	LDILERQIAS	IHDSNP.TQE	KREQLFNNVL
ef173422-03	KNKVLPQARE	KLEFCSKLLQ	LDILERQIAS	IHDSNP.TQE	KREQLFNNVL
dq473490-04	KQKILPQARD	KLDFCKRLKQ	LDILERQIDT	LHMNVQV.NDN	DRETLFNNVL
hrv-05	KQKILPQARD	KLDFCRRLLQ	LDILERQIDT	LHMNVQV.NDN	DRETLFNNVL
dq473486-06	KNKVLPQAKE	KLEYCSKLLQ	LDILERQITT	MHVSNP.SQE	KREQLFNNVL
l05355-14	KNKVLPQAKE	KLEFCSKLLQ	LDILERQITT	MHISNP.TQE	KREQLFNNVL
k02121-14	KNKVLPQAKE	KLEFCSKLLQ	LDILERQITT	MHISNP.TQE	KREQLFNNVL
ef173420-17	KTKIIPQAKE	KLDFCKRLKQ	LDILERQIAT	MHVSNP.TQE	KREQLFNNVL
hrv-26	KLKVLPQARD	KLDFCKRLKQ	LDILERQINT	LHMNQI.SDN	DRETLFNNVL
hrv-27	KNKILPQARD	KLDFCKRLKQ	LDILERQIDT	LHMNYT.NEN	DRETLFNNVL
ef173421-27	KNKILPQARD	KLDFCKRLKQ	LDILERQIDT	LHMNYT.NEN	DRETLFNNVL
dq473487-35	KNKVLPQARE	KLEFCSKLLQ	LDILERQITT	MHISNP.TQE	KRKYLFNNVM
hrv-35	KNKVLPQARE	KLEFCSKLLQ	LDILERQITT	MHISNP.TQE	KREQLFNNVM
ef173423-37	KNKVLPQAKE	KLEYCSKLLQ	LDILERQITT	MHVSNP.TQE	KREQLFNNVL
hrv-42	KQKILPQARD	KLDFCRRLLQ	LDILERQIDS	LHMNVQV.NDN	DRETLFNNVL
dq473488-48	KTKIIPQAKE	KLDFCRRLLQ	LDILERQIAT	MHVSNP.TQE	KREQLFNNVM
hrv-52	KTKIIPQARE	KLDFCKRLKQ	LDILERQIAT	MHVSNP.TQE	KREQLFNNVL
hrv-52-f10	KTKIIPQAKE	KLDFCKRLKQ	LDILERQITT	MHVSNP.TQE	KREQLFNNVL
ef173424-52	KTKIIPQARE	KLDFCKRLKQ	LDILERQIAT	MHVSNP.TQE	KREQLFNNVL
hrv-69	KTKIIPQAKE	KLDFCKRLKQ	LDILERQVTT	MHVSNP.TQE	KREQLFNNVL
dq473489-70	KVKIIPQAKE	KLDFCKRLKQ	LDILERQIAT	MHVSNP.TQE	KREQLFNNVL
hrv-72	KNKVLPQAKE	KLEFCSKLLQ	LDLLERQINT	MHVSNP.TQE	KREQLFNNVL
hrv-79	KNKVLPQAKE	KLEFCSKLLQ	LDILERQITT	MHVSNP.TQE	KREQLFNNVM
hrv-83	KNKVLPQAKE	KLEFCSKLLQ	LDILERQITT	MHVSNP.TQE	KREQLFNNVM
hrv-84	KNKLLPQAKD	KLDFCKRLKQ	LDIERQVET	LHMNHT.NEN	DRETLFNNVL
hrv-86	KTKILPQARE	KLDFCRRLLQ	LDILERQITT	MHISNP.TQE	KREQLFNNVL
hrv-91	KTKIIPQAKE	KLDFCKRLKQ	LDIMERQIAT	MHVSNP.TQE	KREQLFNNVL
hrv-92	KNKVLPQAKE	KLDFCSKLLQ	LDMLERQITT	MHVSNP.TQE	KREQLFNNVM
ef173425-93	KNKILPQARD	KLDFCKRLKQ	LDILERQIDT	LHMNHT.NEN	DRETLFNNVL
hrv-97	KNKILPQARD	KLDFCKRLKQ	LDILERQIDT	LHMNQT.NEN	DRETLFNNVL
hrv-99	KQKILPQARD	KLDFCKRLKQ	LDVLERQIDT	LHMNVQV.SDN	DRETLFNNVL

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annotation					
af499637-cva13	WLAIQSRRFA	PLYAVEAKRI	SKLENTINNY	IQFKSKHRIE	PVCVLIHGSP
af546702-cva21	WLAVQSRRFA	PLYAVEARRI	NKMESTINNY	IQFKSKHRIE	PVCMLIHGSP
v01149-pv1m	WLSIQSKRFA	PLYAVEAKRI	QKLEHTINNY	IQFKSKHRIE	PVCLLVHGSP
d00239-01	TLHDLCKFL	PLYAHEAKRI	KVLYNKCSNI	I..KQRKRSE	PVAVMIHGPP
pico-01	TLHDLCKFL	PLYAHEAKRI	KVLYNKCSNI	I..KQRKRSE	PVAVMIHGPP
hrv-01	TLHDLCKFL	PLYAHEAKRI	KVLYNKCSNI	I..KQRKRSE	PVAVMIHGPP
x02316-02	TLHDLCKFL	PLYASEAKRI	KTLYIKCDNI	I..KQKKRCE	PVAIVIHGPP
hrv-07	TLHDLCKFL	PLYASEARRI	KNLYNKCNV	I..KGGKRNE	PVAVLIHGSP
dq473503-07	TLHDLCKFL	PLYASEARRI	KNLYNKCNV	I..KGGKRNE	PVAVLIHGSP
hrv-08	EMLDISNKL	PLYPRENKMI	KDLLKQAKNM	T..VASKRIE	PVAVMFHGDP
pico-09	TLHDLCKFL	PLYASEAKRI	KILHNKCCNI	I..KQRKRSE	PVAIMIHGPP
hrv-09	TLHDLCKFL	PLYASEAKRI	KILHNKCCNI	I..KQRKRSE	PVAIMIHGPP
hrv-09-f01	TLHDLCKFL	PLYASEAKRI	KILHNKCCNI	I..KQRKRSE	PVAIMIHGPP
hrv-09-f02	TLHDLCKFL	PLYASEAKRI	KILHNKCCNI	I..KQRKRSE	PVAIMIHGPP
dq473498-10	TLHDLCKFL	PLYASEAKRI	KILHNKCNTI	I..KQRKRCE	PVAVVIHGEP
hrv-10	TLHDLCKFL	PLYASEAKRI	KILHNKCNTI	I..KQRKRCE	PVAVVIHGEP
ef173414-11	TLHDLCKFL	PLYASEAKRI	KVLHNKCNVI	I..KQKKRCE	PVAVVIHGEP
ef173415-12	RLDDLCKFL	PLYPSEAKRI	SVLYKRSQTI	L..KTSKRTE	PVGILFHGEP
hrv-13	TLHDLCKFL	PLYASEAKRI	KVIYNKCNNI	I..KQRKRSE	PVAVMIHGLP
hrv-13-f03	TLHDLCKFL	PLYASEAKRI	KVIYNKCSNI	I..KQRKRSE	PVAVMIHGSP
dq473493-15	TLHDLCKFL	PLYASEAKRI	KALHNKCNII	I..KQKKRSE	PVAIMIHGPP
l24917-16	TLHDLCKFL	PLYASEAKRI	KVLYHKCTNI	I..KQKKRSE	PVAVMIHGPP
hrv-18	TLHDLCKFL	PLYASEAKRI	KILHNKCNTI	I..KQKKRCE	PVAVVIHGEP
hrv-19	TLHDLCKFL	PLYASEAKRI	KVLYNKCNNI	I..KQKKRSE	PVAIMIHGPP
hrv-20	LMLDSSNKFL	PLYAVENKRI	KELLKRSQMI	L..RTSKRTE	PVGVIHFGEP
hrv-21	TLHDLCKFL	PLYASEAKRI	KVLHNKCNV	I..KQKKRCE	PVAVVIHGEP
hrv-22	TLHDLCKFL	PLYASEAKRI	KVLXNKCNV	I..KQKKRSE	PVAVMIHGPP
dq473497-23	TLHDLCKFL	PLYASEAKRI	KTLLHIKCDNI	I..KQKKRCE	PVAIVIHGPP
hrv-24	TLHDLCKFL	PLYASEAKRI	KILYNKCNVI	I..KQKKRCE	PVAVVIHGEP
ef173416-24	TLHDLCKFL	PLYASEAKRI	KILYNKCNVI	I..KQKKRCE	PVAVVIHGEP
hrv-25	TLHDLCKFL	PLYASEAKRI	KILHNKCNSTI	I..KQRKRCE	PVAVVIHGEP
dq473508-28	LMLDSSNKFL	PLYAVENKRI	KELLKRSQMI	L..RTSKRTE	PVGVIHFGEP
hrv-29	TLHDLCKFL	PLYASEAKRI	KILHNKCNSTI	I..KQRKRCE	PVAVVIHGDP
dq473512-30	TLHDLCKFL	PLYASEAKRI	KNLHIKCNNI	I..KQKKRCE	PVAIVIHGPP
hrv-30	TLHDLCKFL	PLYASEAKRI	KNLHIKCNNI	I..KQKKRCE	PVAIVIHGPP
hrv-31	TLHDLCKFL	PLYASEAKRI	KILHNKCNSTI	I..KQRKRCE	PVAVAIHGEP
hrv-32	TLHDLCKFL	PLYASEAKRI	KTLLHNKCCNI	I..KQKKRSE	PVAIMIHGPP
hrv-33	TLHDLCKFL	PLYASEAKRI	KVLYNKCNVI	I..KQKKRCE	PVAVVIHGEP
hrv-34	TLHDLCKFL	PLYASEAKRI	KILHNKCNSTI	I..KQRKRCE	PVAVVIHGEP
dq473501-34	TLHDLCKFL	PLYASEAKRI	KILHNKCNSTI	I..KQRKRCE	PVAVVIHGEP
dq473505-36	TLHDLCKFL	PLYASEARRI	KSLLYIKCSNI	I..KGGKRNE	PVAVLIHGSP
hrv-38	TLHDLCKFL	PLYASEAKRI	KVLFNKCNTI	I..KQKKRSE	PVAIMVHGPP
dq473495-38	TLHDLCKFL	PLYASEAKRI	KVLFNKCNTI	I..KQKKRSE	PVAIMVHGPP
ay751783-39	TLHDLCKFL	PLYASEAKRI	KILHNKCDTI	I..KQKKRSE	PVAIVVHGPP
hrv-40	TLHDLCKFL	PLYASEAKRI	KVLHNKCSAI	I..KQKKRCE	PVAVVIHGEP
dq473491-41	TLHDLCKFL	PLYASEAKRI	KVVYNKCNNI	I..KQKKRSE	PVAVMIHGSP
hrv-43	TLHDLCKFL	PLYASEAKRI	KVLHNKCNNI	I..KQRKRSE	PVAIMIHGPP
dq473499-44	TLHDLCKFL	PLYASEAKRI	KILHNKCNSTI	I..KQRKRCE	PVAVVIHGDP
hrv-45	EMLDISNKL	PLYPKENKII	KDLLKQAKSM	T..TTSKRVE	PVAIMFHGDP
dq473506-46	LMLDSSNKFL	PLYALENKRI	KELLKRGQMI	L..RTSKRTE	PVGVIHFGEP
hrv-47	TLHDLCKFL	PLYASEAKRI	KILHNKCNSTI	I..KQKKRCE	PVAVAIHGEP
dq473496-49	TLHDLCKFL	PLYAGEAKRI	KTLLHIKCDNI	I..KQKKRCE	PVAIVIHGPP
hrv-49-f04	TLHDLCKFL	PLYASEAKRI	KTLLHIKCDNI	I..KQKKRCE	PVAVVIHGPP
hrv-50	TLHDLCKFL	PLYASEAKRI	KVLYNKCNSTI	I..KQKKRCE	PVAVVIHGEP
hrv-51	IMLDSSNKFL	PLYASENKRI	KELLKRSEMI	L..RTSKRTE	PVGVLFHGEP
dq473507-53	LMLDSSNKFL	PLYALENKRI	KELLKRGQMI	L..RTSKRTE	PVGVIHFGEP
hrv-54	TLHDLCKFL	PLYASEAKRI	KVLYNRCSTI	I..KQKKRCE	PVAVVIHGEP

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hrv-54-f05	TLHDLCKFL	PLYASEAKRI	KILHNRCSTI	I..KQKKRCE	PVAVVIHGEP
dq473511-55	TLHDLCKFL	PLYASEAKRI	KVLHNKCNV	I..KQKKRCE	PVAVVIHGEP
hrv-56	TLHDLCKFL	PLYASEAKRI	KILYNKCN	I..KQKKRCE	PVAVVIHGEP
hrv-57	TLHDLCKFL	PLYASEAKRI	KVLYNKCNV	I..KQKKRCE	PVAVVIHGEP
hrv-58	TLHDLCKFL	PLYASEARRI	KNLYIKCNI	I..KGGKRNE	PVAVLIHGSP
dq473500-59	TLHDLCKFL	PLYASEAKRI	KVLHNKCNVI	I..KQKKRCE	PVAVVIHGEP
hrv-60	TLHDLCKFL	PLYASEAKRI	KVLFNKCN	I..KQKKRSE	PVAVMIHGPP
hrv-61	TLHDLCKFL	PLYASEAKRI	KVIHNKCN	I..KQKKRSE	PVAVMIHGSP
hrv-62	TLHDLCKFL	PLYASEAKRI	KILHNKCS	I..KQKKRCE	PVAVVIHGEP
hrv-63	TLHDLCKFL	PLYASEAKRI	KVLHNKCNII	I..KQKKRCE	PVAVVIHGEP
hrv-64	TLHDLCKFL	PLYASEAKRI	KVLYNKCNV	I..KQKKRSE	PVAVMIHGPP
ef173417-64	TLHDLCKFL	PLYASEAKRI	KVLYNKCNV	I..KQKKRSE	PVAVMIHGPP
hrv-65	IMLDSSNKFL	PLYACENKRI	KELLKRSEMI	L..RTSKRTE	PVGVLFHGEP
hrv-66	TLHDLCKFL	PLYASEAKRI	KILHNRCSTI	I..KQKKRCE	PVAVVIHGEP
hrv-67	TLHDLCKFL	PLYASEAKRI	KILHNKCCNI	I..KQKKRSE	PVAVMIHGPP
hrv-68	IMLDSSNKFL	PLYATENKRI	KELLKRSQMI	L..RTSKRTE	PVGVLFHGEP
hrv-71	IMLDSSNKFL	PLYASENKRI	KELLKRSDMI	L..RTSKRTE	PVGVLFHGDP
dq473492-73	TLHDLCKFL	PLYASEAKRI	KVIYNKCN	I..KQKKRSE	PVAVMIHGSP
dq473494-74	TLHDLCKFL	PLYASEAKRI	KALHNKCNIV	I..KQKKRSE	PVAVMIHGPP
dq473510-75	TLHDLCKFL	PLYASEAKRI	KALYNKCN	I..KQKKRSE	PVAVMIHGPP
dq473502-76	TLHDLCKFL	PLYASEAKRI	KVLHNKCNVI	I..KQKKRCE	PVAVVIHGEP
hrv-76	TLHDLCKFL	PLYASEAKRI	KVLHNKCNVI	I..KQKKRCE	PVAVVIHGEP
hrv-77	TLHDLCKFL	PLYASEAKRI	KILHNRCNTI	I..KQKKRCE	PVAVVIHGEP
hrv-78	EMKDLSNKFL	PLYANEAKRI	KALAHKASNI	V..KNAKRVE	PVAVMFHGNP
ef173418-78	EMKDLSNKFL	PLYANEAKRI	KALAHKASNI	V..KNAKRVE	PVAVMFHGNP
hrv-80	IMADSSRKFL	PLYASENKRI	NDLLRRSEMV	M..LTAKRTE	PVGVLFHGEP
hrv-81	TLHDLCKFL	PLYASEAKRI	KVLYHKCTNI	I..KQKKRSE	PVAVMIHGPP
hrv-81-f06	TLHDLCKFL	PLYASEAKRI	KVLYHKCTNI	I..KQKKRSE	PVAVMIHGPP
hrv-81-f07	TLHDLCKFL	PLYASEAKRI	KVLYHKCTNI	I..KQKKRSE	PVAVMIHGPP
hrv-82	TLHDLCKFL	PLYASEAKRI	KVLYNKCN	I..KQKKRSE	PVAVMIHGPP
dq473509-82	TLHDLCKFL	PLYASEAKRI	KVLYNKCN	I..KQKKRSE	PVAVMIHGPP
hrv-85	TLHDLCKFL	PLYASEAKRI	KILHNKCSAI	I..KQKKRCE	PVAVVIHGEP
pico-85	TLHDLCKFL	PLYASEAKRI	KILHNKCSAI	I..KQKKRCE	PVAVVIHGEP
dq473504-88	TLHDLCKFL	PLYASEARRI	KNLYIKCNI	I..KGGKRNE	PVAVLIHGSP
a10937-89	TLHDLCKFL	PLYASEARRI	KNLYIKCSNV	I..KGGKRNE	PVAVLIHGSP
hrv-89	TLHDLCKFL	PLYASEARRI	KNLYIKCSNV	I..KGGKRNE	PVAVLIHGSP
hrv-89-f08	TLHDLCKFL	PLYASEARRI	KNLYIKCSNV	I..KGGKRNE	PVAVLIHGSP
hrv-89-f09	TLHDLCKFL	PLYASEARRI	KNLYIKCSNV	I..KGGKRNE	PVAVLIHGSP
m16248-89	TLHDLCKFL	PLYASEARRI	KNLYIKCSNV	I..KGGKRNE	PVAVLIHGSP
hrv-90	TLHDLCKFL	PLYASEAKRI	KALHNKCNVI	I..KQKKRCE	PVAVVIHGEP
hrv-94	TLHDLCKFL	PLYASEAKRI	KVLYNKCN	I..KQKKRSE	PVAVMIHGPP
ef173419-94	TLHDLCKFL	PLYASEAKRI	KVLYNKCN	I..KQKKRSE	PVAVMIHGPP
hrv-95	EMLDISNKL	PLYPRENKMI	KDLLKQAKNM	T..VASKRIE	PVAVMFHGD
hrv-96	TLHDLCKFL	PLYASEAKRI	KVIHNKCN	I..KQKKRSE	PVAVMIHGSP
hrv-98	TLHDLCKFL	PLYASEAKRI	KILHNRCSTI	I..RQKKRCE	PVAVVIHGEP
hrv-100	TLHDLCKFL	PLYASEAKRI	KILHNKCN	I..KQKKRCE	PVAVVIHGEP
ef186077-qpm	KLEKGLQDLA	PLYALEAKQV	REMSRELQRM	MCYKKTHRTE	PVCILLHGQP
ef077279-nat001	KLEKGLQDLA	PLYACEAKQV	REMSRELQRM	MCYKKTHRTE	PVCILLHGQP
ny1078	KLEKGLQDLA	PLYACEAKQV	REMSRDLQRM	MCYKKTHRTE	PVCILLHGQP
ef582385-c024	KLKKGLDSL	PLYAVENKRV	TNIYKELKAL	SAYKTTQRTE	PVCILIRGAP
ef077280-nat045	KLKKGLDGL	PLYAVENKTV	TQMKEIKQL	QCYKRTQRTE	PVCILLHGIP
ef582387-c026	KLEKGLQDLA	PLYACEAKQV	REMSRELQRM	MCYKKTHRTE	PVCILLHGQP
ef582386-c025	VLKKNLDDMC	PLYAVENKRV	TNMLKEIKTM	TAYKKTTHRTE	PVCILIHGGP
dq473485-03	WLEQMSQKFS	PLYASEAKRI	RDLKNKITNY	MQFKSKQRTE	PVCVLIHGTP
ef173422-03	WLEQMSQKFS	PLYASEAKRI	RDLKNKITNY	MQFKSKQRTE	PVCVLIHGTP
dq473490-04	WLEQMSQKFA	PLYAVEAKRI	KSLKNKITNF	IQFRSKHRTE	PVCVLIHGTP
hrv-05	WLEQMSQKFA	PLYAVEAKRI	KTLKNKMTNF	IQFRSKHRTE	PVCVLVHGSP
dq473486-06	WLEQMSQKFA	PLYAAESKRI	KDLKNKIMNY	MQFKSKQRTE	PVCVLIHGTP

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l05355-14	WLEQMSQKFA	PHYAVESKRI	RELKNKMVNY	MQFKSKQRTE	PVCVLIHGTP
k02121-14	WLEQMSQKFA	PFYAVESKRI	RELKNKMVNY	MQFKSKQRTE	PVCVLIHGTP
ef173420-17	WLEQMSQKFA	PLYAVEARRI	KELKTKIVNY	MQFKSKQRTE	PVCVLIHGSP
hrv-26	WLEQMSQKFA	PLYAVESKRI	RTLKNKMTNF	IQFRSKHRTE	PVCVLIHGTP
hrv-27	WLEQMSQKFA	PLYALEAKRI	KSLKNKLTNF	IQFRSKHRTE	PVCVLIHGTP
ef173421-27	WLEQMSQKFA	PLYALEAKRI	KSLKNKLTNF	IQFRSKHRTE	PVCVLIHGTP
dq473487-35	WLEQMSQKFA	PLYATEAKRI	RDLKNKIVNY	MQFRNKQRTE	PVCVLIHGTP
hrv-35	WLEQMSQKFA	PLYATEAKRI	RDLKNKIVNY	MQFRNKQRTE	PVCVLIHGTP
ef173423-37	WLEQMSQKFA	PLYAAESKRI	RDLKNKIMNY	MQFKNKQRTE	PVCVLIHGTP
hrv-42	WLEQMSQKFA	PLYAVEAKRI	KMLKNKMTNF	IQFRSKHRTE	PVCVLIHGSP
dq473488-48	WLEQMSQKFA	PLYAVEARRI	KEMKTKMMNY	IQFKSKQRTE	PVCVLIHGSP
hrv-52	WLEQMSQKFA	PLYAVEARRI	KEMKTKVMNY	IQFKSKQRTE	PVCVLIHGSP
hrv-52-f10	WLEQMSQKFA	PLYAVEARRI	KEMKTKMMNY	IQFKSKQRTE	PVCVLIHGSP
ef173424-52	WLEQMSQKFA	PLYAVEARRI	KEMKTKVMNY	IQFKSKQRTE	PVCVLIHGSP
hrv-69	WLEQMSQKFA	PLYAVEARRX	KEMKMKMMNY	IQFKSKHRTE	PVCVLIHGSP
dq473489-70	WLEQMSQKFA	PLYAVEARRI	KELKTKIVNY	MQFKSKQRTE	PVCVLIHGSP
hrv-72	WLEQMSQKFA	PLYATEAKRI	RELKNKIVNY	MQFRNKQRTE	PVCVLIHGTP
hrv-79	WLEQMSQKFA	PLYAAEAKRI	RELKNKILNY	MQFRSKQRTE	PVCVLIHGTP
hrv-83	WLEQMSQKFA	PLYAAEARRI	KDLKNKILNY	MQFKNKQRTE	PVCVLIHGTP
hrv-84	WLEQMSQKFA	PLYAAEAKRI	KTLKNKMTNF	IQFRSKHRTE	PVCVLIHGSP
hrv-86	WLEQMSQKFA	PLYATEGKRI	RDLKNKMLNY	IQFKSKQRTE	PVCVLIHGTP
hrv-91	WLEQMSQKFA	PLYAVEARRI	KELKTKMVNY	MQFKSKQRTE	PVCVLIHGSP
hrv-92	WLEQMSQKFA	PLYAAEAKRI	RELKNKILNY	MQFKNKQRTE	PVCVLIHGTP
ef173425-93	WLEQMSQKFA	PLYALEAKRI	RTLKNKMTNF	IQFRSKHRTE	PVRVLIHGTP
hrv-97	WLEQMSQKFA	PLYALEAKRI	RSLKNKITNF	IQFRSKHRTE	PVCVLIHGTP
hrv-99	WLEQMSQKFA	PLYAVEAKRI	RVLKNKMTNF	IQFRSKHRTE	PVCVLIHGTP

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annotation		..G..A..E..K..	..T..S..T..S..L..P..P..D..	..T..H..F..D..G..Y..K..Q..Q..G..	..V..V..I..M..D..D..L..N..Q..N..
af499637-cva13	GTGKSVATSL	MGRAIAEKEG	TSTYSLPPDP	THFDGYKQQG	VVIMDDLQN
af546702-cva21	GTGKSIATSL	IGRAIAEKES	TSVYSMPDP	SHFDGYKQQG	VVIMDDLQN
v01149-pv1m	GTGKSVATNL	IARAIAEREN	TSTYSLPPDP	SHFDGYKQQG	VVIMDDLQN
d00239-01	GTGKSITTNF	LARMITN..E	SDVYSLPPDP	KYFDGYDNQS	VVIMDDIMQN
pico-01	GTGKSITTNF	LARMITN..E	SDVYSLPPDP	KYFDGYDNQS	VVIMDDIMQN
hrv-01	GTGKSITTNF	LARMITN..E	SDVYSLPPDP	KYFDGYDNQS	VVIMDDIMQN
x02316-02	GAGKSITTNF	LAKMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-07	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473503-07	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-08	GSGKSICTNI	LARMITN..P	SDIYSLPPDP	KYFDGYHQQT	VVIMDDVMQN
pico-09	GTGKPITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-09	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-09-f01	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-09-f02	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473498-10	GTGKSMTTNF	LARMITS..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
hrv-10	GTGKSMTTNF	LARMITS..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
ef173414-11	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
ef173415-12	GTGKSITTSV	LARMLTS..D	SDIYSLPPAP	KYFD.VRPQT	GVIMDDIMQN
hrv-13	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-13-f03	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473493-15	GTGKSITTSF	LARMITS..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
l24917-16	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDNQS	VVIMDDIMQN
hrv-18	GTGKSMTTNF	LARMITS..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-19	GTGKSITTSF	LARMITN..E	SDVYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-20	GTGKSITTSI	LARMLTT..E	SDIYSLPPSP	KYFDGYDQQS	VVIMDDIMQN
hrv-21	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-22	GTGKSITTSF	LARMLTN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473497-23	GAGKSITTNF	LAKMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-24	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN

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ef173416-24	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-25	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473508-28	GTGKSITTSI	LARMLTT..E	SDIYSLPPSP	KYFDGYDQQS	VVIMDDIMQN
hrv-29	GTGKSMTTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
dq473512-30	GAGKSITTNF	LAKMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-30	GAGKSITTNF	LAKMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-31	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-32	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-33	GAGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-34	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473501-34	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473505-36	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-38	GTGKSITTSF	LARMITN..E	SDVYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473495-38	GTGKSITTSF	LARMITN..E	SDVYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
ay751783-39	GTGKSITTSF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-40	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
dq473491-41	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-43	GTGKSITTSF	LARMITN..E	SDVYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473499-44	GTGKSMTTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
hrv-45	GSGKSVCTNI	LARMITN..P	SDIYSLPPNP	KYFDGYHQQT	VVIMDDVMQN
dq473506-46	GTGKSITTSI	LARMLTS..E	SDIYSLPPSP	KYFDGYDQQS	VVIMDDIMQN
hrv-47	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473496-49	GAGKSITTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-49-f04	GAGKSITTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-50	GTGKSMTTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
hrv-51	GTGKSIATSI	LARMLTT..E	SDIYSLPPSP	KYFDGYDQQS	VVIMDDIMQN
dq473507-53	GTGKSITTSI	LARMLTS..E	SDIYSLPPSP	KYFDGYDQQS	VVIMDDIMQN
hrv-54	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
hrv-54-f05	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
dq473511-55	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-56	GTGKSMTTNF	LARMITT..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
hrv-57	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-58	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473500-59	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-60	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-61	GTGKSITTNF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-62	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-63	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-64	GTGKSITTSF	LARMLTN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
ef173417-64	GTGKSITTSF	LARMLTN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-65	GTGKSIATSI	LARMLTT..E	SDIYSLPPSP	KYFDGYDQQS	VVIMDDIMQN
hrv-66	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-67	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-68	GTGKSITTSI	LARMLTT..E	SDIYSLPPSP	KYFDGYDQQS	VVIMDDIMQN
hrv-71	GTGKSIATSI	LARMITT..E	SDIYSLPPSP	KYFDGYDQQS	VVIMDDIMQN
dq473492-73	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473494-74	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473510-75	GTGKSITTSF	LARMITN..E	SDVYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
dq473502-76	GAGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-76	GAGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-77	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-78	GTGKSLATNF	LGRMITS..E	TDIYSLPPDP	KHFDGYDQQT	VVIMDDVMQN
ef173418-78	GTGKSLATNF	LGRMITS..E	TDIYSLPPDP	KHFDGYDQQT	VVIMDDVMQN
hrv-80	GTGKSIATSI	LGRMLTN..E	SDIYSLPPSP	KYFDGYDQQS	VVIMDDIMQN
hrv-81	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDNQS	VVIMDDIMQN
hrv-81-f06	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDNQS	VVIMDDIMQN
hrv-81-f07	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDNQS	VVIMDDIMQN
hrv-82	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN

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dq473509-82	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-85	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
pico-85	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
dq473504-88	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
a10937-89	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-89	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-89-f08	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-89-f09	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
m16248-89	GTGKSLATSV	LARMLTV..E	TDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-90	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-94	GTGKSITTSF	LARMLTN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
ef173419-94	GTGKSITTSF	LARMLTN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-95	GSGKSICTNI	LARMITN..P	SDIYSLPPDP	KYFDGYHQQT	VVIMDDVMQN
hrv-96	GTGKSITTSF	LARMITN..E	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
hrv-98	GTGKSMTTSF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDVMQN
hrv-100	GTGKSMTTNF	LARMITN..D	SDIYSLPPDP	KYFDGYDQQS	VVIMDDIMQN
ef186077-qpm	GCGKSLASKV	IARGLTS..E	SNVYSLPPDP	KYFDGYNQQE	VVIMDDVGQN
ef077279-nat001	GCGKSLASKI	IARGLTN..E	SNVYSLPPDP	KYFDGYNQQE	VVIMDDVGQN
ny1078	GCGKSLASKI	VARGLTN..E	SNVYSLPPDP	KYFDGYNQQE	VVIMDDVGQN
ef582385-c024	GCGKSLVTSI	IARGLTK..P	GDIYSLPPDP	KHFDGYDQQE	VVIMDDLGN
ef077280-nat045	GCGKSLITTI	IARGLAT..E	GNIYSLPPNP	KHFDGYNQQD	VVIMDDVCQN
ef582387-c026	GCGKSLASKV	IARGLTN..E	SNVYSLPPDP	KYFDGYNQQE	VVIMDDVGQN
ef582386-c025	GCGKSLATTV	IARGLAD..S	GNVYSLPPNP	KHFDGYCQQQ	VVIMDDLGN
dq473485-03	GSGKSLTTSI	VGRALAEHFN	SSVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
ef173422-03	GSGKSLTTSI	VGRALAEHFN	SSVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
dq473490-04	GSGKSLTTSI	VGRAIADNYN	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN
hrv-05	GSGKSLTTSI	IGRAIADNCG	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN
dq473486-06	GSGKSLTTSI	VGRALAEHFN	SSVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
l05355-14	GSGKSLTTSI	VGRAIAEHFN	SAVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
k02121-14	GSGKSLTTSI	VGRAIAEHFN	SAVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
ef173420-17	GSGKSLTTSI	IGRAIAEKFK	STVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-26	GSGKSLTTSI	IGRAIADNYG	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN
hrv-27	GSGKSLTTSI	IGRSIADIHR	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN
ef173421-27	GSGKSLTTSI	IGRSIADIHR	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN
dq473487-35	GSGKSLTTSI	VGRALAEHFN	SAVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-35	GSGKSLTTSI	VGRALAEHFN	SAVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
ef173423-37	GSGKSLTTSI	VGRALAEHFN	SAVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-42	GSGKSLTTSI	IGRAIADSCG	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN
dq473488-48	GSGKSLTTSI	IGRAIAERYK	STVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-52	GSGKSLTTSI	IGRAIAERFK	STVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-52-f10	GSGKSLTTSI	IGRAIAERFK	STVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
ef173424-52	GSGKSLTTSI	IGRAIAERFK	STVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-69	GSGKSLTTSI	IGRAIAERFK	STVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
dq473489-70	GSGKSLTTSI	VGRAIAERFK	STVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-72	GSGKSLTTSI	IGRAIAEQFN	SAVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-79	GSGKSLTTSI	VGRALAEHFN	SSVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-83	GSGKSLTTSI	VGRALAEHFN	SAVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-84	GSGKSLATSL	IGRSIADNHN	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN
hrv-86	GSGKSLTTSI	VGRALAEHFN	SAVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-91	GSGKSLTTSI	IGRAIAERFK	STVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
hrv-92	GSGKSLTTSI	VGRALAEHLN	SAVYSLPPDP	KHFDGYQQQE	VVIMDDLQNN
ef173425-93	GSGKSLATSL	IGRSIADIHK	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN
hrv-97	GSGKSLTTSI	IGRSIAEIYK	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN
hrv-99	GSGKSLTTSI	IGRAIADSCG	SSVYSLPPDP	KHFDGYQQQA	VVILDDLQNN

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1400

annotation					
af499637-cva13	PDGMDMKLFC	QMVSTVEFIP	PMASLEEKGI	LFTSDYVLAS	TNSSTITPPT

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af546702-cva21	PDGMDMKLFC	QMVSTVEFIP	PMASLEEKGI	LFTSDYVLAS	TNSHSIVPPT
v01149-pv1m	PDGADMKLFC	QMVSTVEFIP	PMASLEEKGI	LFTSNYVLAS	TNSSRISPPT
d00239-01	PDGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
pico-01	PDGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFILCS	TNHSLLAPPT
hrv-01	PDGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFILCS	TNHSLLAPPT
x02316-02	PAGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	AFDSRFVLCS	TNHSLLTPPT
hrv-07	PNGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTLLTPPT
dq473503-07	PNGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTLLTPPT
hrv-08	PNGEDMSTFC	QMVSSVNYVV	PMADLPDKGT	LFSSDYVFCS	TNQHILTPPT
pico-09	PGGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
hrv-09	PGGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
hrv-09-f01	PGGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
hrv-09-f02	PGGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
dq473498-10	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
hrv-10	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
ef173414-11	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSMLAPPT
ef173415-12	PSGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	HFTSEYVLAS	TNHSILNPPT
hrv-13	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
hrv-13-f03	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
dq473493-15	PGGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
l24917-16	PGGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
hrv-18	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
hrv-19	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
hrv-20	PSGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSDYVLAS	TNHTLLHPPT
hrv-21	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLTPPT
hrv-22	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
dq473497-23	PTGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	AFDSRFVLCS	TNHSLLAPPT
hrv-24	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHGMLAPPT
ef173416-24	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHGMLAPPT
hrv-25	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNMLAPPT
dq473508-28	PSGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSDYVLAS	TNHTLLHPPT
hrv-29	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNMLAPPT
dq473512-30	PAGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	TFDSRFVLCS	TNHSLLAPPT
hrv-30	PAGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	AFDSRFVLCS	TNHSLLAPPT
hrv-31	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
hrv-32	PGGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
hrv-33	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSMLAPPT
hrv-34	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
dq473501-34	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
dq473505-36	PSGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTMLTPPT
hrv-38	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNQSLAPPT
dq473495-38	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNQSLAPPT
ay751783-39	PTGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	AFDSRFVLCS	TNHSLLAPPT
hrv-40	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
dq473491-41	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
hrv-43	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNQTLAPPT
dq473499-44	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNMLAPPT
hrv-45	PDGEDMSTFC	QMVSSVNYVV	PMADLPDKGT	LFSSDYVFCS	TNQHVLPPT
dq473506-46	PSGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSDYVLAS	TNHTLLHPPT
hrv-47	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
dq473496-49	PAGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	AFDSRFVLCS	TNHSLLAPPT
hrv-49-f04	PAGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	AFDSRFVLCS	TNHSLLAPPT
hrv-50	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
hrv-51	PNGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSDYVLAS	TNHNLLHPPT
dq473507-53	PSGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSDYVLAS	TNHTLLHPPT
hrv-54	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
hrv-54-f05	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
dq473511-55	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSMLAPPT

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hrv-56	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
hrv-57	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSMLAPPT
hrv-58	PNGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTLLTPPT
dq473500-59	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNMLAPPT
hrv-60	PDGEDMSLFC	QMVSSVAFIP	PMADLPDKGK	PFDSRFVFCS	TNQSLAPPT
hrv-61	PDGEDMALFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSMLAPPT
hrv-62	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNMLAPPT
hrv-63	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNMLAPPT
hrv-64	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
ef173417-64	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
hrv-65	PNGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSDYVLAS	TNHNLLHPPT
hrv-66	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSKFVLCS	TNHHLLAPPT
hrv-67	PGGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
hrv-68	PSGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSDYVLAS	TNHTLLHPPT
hrv-71	PNGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSDYVLAS	TNHSLLHPPT
dq473492-73	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
dq473494-74	PGGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLAPPT
dq473510-75	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNQTLAPPT
dq473502-76	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSMLAPPT
hrv-76	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSMLAPPT
hrv-77	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHHLLAPPT
hrv-78	PDGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSRYVLCS	TNHTILTPPT
ef173418-78	PDGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSRYVLCS	TNHTILTPPT
hrv-80	PSGEDMSLFC	QMVSSVPFIP	PMADLPDKGK	PFSSDFVLAS	TNHTLLHPPT
hrv-81	PGGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
hrv-81-f06	PGGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
hrv-81-f07	PGGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
hrv-82	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNQSLAPPT
dq473509-82	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNQSLAPPT
hrv-85	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
pico-85	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
dq473504-88	PNGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTLLTPPT
a10937-89	PSGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTLLTPPT
hrv-89	PSGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTLLTPPT
hrv-89-f08	PSGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTLLTPPT
hrv-89-f09	PSGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTLLTPPT
m16248-89	PSGEDMTLFC	QMVSSVPFIP	PMADLPDKGK	PFTSKFVLAS	TNHTLLTPPT
hrv-90	PSGEDMTLFC	QMVSSVTFIP	PMADLPDKGK	SFDSRFVLCS	TNHGMLAPPT
hrv-94	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLTPPT
ef173419-94	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVFCS	TNHSLLTPPT
hrv-95	PNGEDMSTFC	QMVSSVNYVV	PMADLPDKGT	LFSSDYVFCS	TNQHILTPPT
hrv-96	PDGEDMSLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHSLLAPPT
hrv-98	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
hrv-100	PSGDDMTLFC	QMVSSVTFIP	PMADLPDKGK	PFDSRFVLCS	TNHNLLAPPT
ef186077-qpm	PDGKDLSLFC	QMVSSSTEFIT	PMANLEDKGR	AFTSDYVIAS	TNMSVLTPTT
ef077279-nat001	PDGRDLSLFC	QMVSSSTEFIT	PMANLEDKGR	AFTSDYVIAS	TNMSILTPTT
ny1078	PDGKDLSFFC	QMVSSSTEFIT	PMANLEDKGR	AFTSDYVIAS	TNMTVLTPTT
ef582385-c024	PDGKDLSMFC	QMVSTTNFIP	PMAALEDKGG	TFTSKYILAS	TNLLNLQPPT
ef077280-nat045	PDGEDMNMFC	QMVSTADFHV	PMAAIEDKGG	SFTSKYVLAS	TNMAALQPPT
ef582387-c026	PDGKDLSLFC	QMVSSSTEFIT	PMANLEDKGR	AFTSDYVIAS	TNMTVLTPTT
ef582386-c025	PDGQDLAMFC	QMVSTTDFIV	PMAALEDKGG	SFTSDYVLAS	TNLNQLSPPT
dq473485-03	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPTT
ef173422-03	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPTT
dq473490-04	PNGEDISTFC	QMVSSVDFIP	PMANLDNKGM	LFTSSFVLAS	TNSQTLNPPT
hrv-05	PNGEDISTFC	QMVSSVDFIP	PMANLDNKGM	LFTSNFVLAS	TNSQTLNPPT
dq473486-06	PDGQDISMFC	QMVSTVDFIP	PMANLDNKGM	LFTSNFVLAS	TNSNTLSPTT
l05355-14	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPTT
k02121-14	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPTT

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ef173420-17	PDGQDISMFC	QMVSSVDFIP	PMASLDNKGI	SFTSNFVLAS	TNSNTLSPPT
hrv-26	PNGEDISTFC	QMVSSVDFIP	PMANLDNKGM	LFTSNFVLAS	TNSQTLNPPT
hrv-27	PNGEDISTFC	QMVSSVDFIP	PMANLDNKGM	LFTSSFVLAS	TNSQTLNPPT
ef173421-27	PNGEDISTFC	QMVSSVDFIP	PMANLDNKGM	LFTSSFVLAS	TNSQTLNPPT
dq473487-35	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPPT
hrv-35	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPPT
ef173423-37	PDGQDISMFC	QMVSSVDFIP	PMANLDNKGM	LFTSNFVLAS	TNSNTLSPPT
hrv-42	PNGEDISTFC	QMVSSVDFIP	PMANLDNKGM	LFTSNFVLAS	TNSQTLNPPT
dq473488-48	PDGQDISMFC	QMVSSVDFIP	PMASLDNKGI	LFTSNFVLAS	TNSNTLNPPT
hrv-52	PDGQDISMFC	QMVSSVDFIP	PMASLDNKGI	LFTSNFVLAS	TNSNTLSPPT
hrv-52-f10	PDGQDISMFC	QMVSSVDFIP	PMASLDNKGI	LFTSNFVLAS	TNSNTLSPPT
ef173424-52	PDGQDISMFC	QMVSSVDFIP	PMASLDNKGI	LFTSNFVLAS	TNSNTLSPPT
hrv-69	PDGQDISMFC	QMVSSVDFIP	PMASLDNKGI	LFTSNFVLAS	TNSNTLSPPT
dq473489-70	PDGQDVSMFC	QMVSSVDFIP	PMASLDNKGI	LFTSNFVLAS	TNSNTLSPPT
hrv-72	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPPT
hrv-79	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPPT
hrv-83	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPPT
hrv-84	PNGEDISTFC	QMVSVDFVP	PMANLDNKGM	LFTSSFVLAS	TNSQTLNPPT
hrv-86	PDGQDISMFC	QMVSSVDFLP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPPT
hrv-91	PDGQDISMFC	QMVSVDFIP	PMASLDNKGI	LFTSNFVLAS	TNSNTLSPPT
hrv-92	PDGQDISMFC	QMVSSVDFIP	PMASLDNKGM	LFTSNFVLAS	TNSNTLSPPT
ef173425-93	PNGEDISTFC	QMVSSVDFIP	PMANLDNKGM	LFTSSFVLAS	TNSQTLNPPT
hrv-97	PNGEDVSTFC	QMVSSVDFIP	PMANLDNKGM	LFTSSFVLAS	TNSQTLNPPT
hrv-99	PNGEDISTFC	QMVSSVDFIP	PMANLDNKGM	LFTSNYVLAS	TNSQTLNPPT
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af499637-cva13	VAHSDALSRR	FAFDMEICPL	TQY.TIKGKL	NMAEATRLCK	DCPQPANFKK
af546702-cva21	VAHSDALTRR	FAFDVEVYTM	SEH.SVKGKL	NMATATQLCK	DCPTPANFKK
v01149-pv1m	VAHSDALARR	FAFDMDIQVM	NEY.SRDGKL	NMAMATEMCK	NCHQPANFKR
d00239-01	ISSLPAMNRR	FFFDLDIVVH	DNYKDAQGKL	NVSKAFQPCN	VNTKIGN.AK
pico-01	ISSLPAMNRR	FFFDLDIVVH	DNYKDTQGKL	DVSKAFRPCN	VNTKIGN.AK
hrv-01	ISSLPAMNRR	FFFDLDIVVH	DNYKDTQGKL	DVSKAFRPCN	VNTKIGN.AK
x02316-02	ITSLPAMNRR	FFLDLDIIVH	DNFKDPQGKL	NVAAAFRPCD	VDNRIGN.AR
hrv-07	VSSLPAMSRR	FYFDLDIQVK	KDY.LVDGKL	DIAKSFKPCD	VNNKIGN.AK
dq473503-07	VSSLPAMSRR	FYFDLDIQVK	KDY.LVDGKL	DIAKSFKPCD	VNNKIGN.AK
hrv-08	ISTLPALNRR	LFLDLTIKVN	PKY.LESGKL	NLDCALKACD	QEQKIGN.AR
pico-09	ITLSAMNRR	FYLDLDIVVN	ENFRDSQGKL	NVPKSFKPCD	IDNKIGN.AK
hrv-09	ITLSAMNRR	FYLDLDIVVN	ENFRDSQGKL	DVSKSFRPCD	IDNKIGN.AK
hrv-09-f01	ITLSAMNRR	FFLDLDIIVN	ENFRDSQGKL	DVPKSFKPCD	IDNKIGN.AK
hrv-09-f02	ITLSAMNRR	FFLDLDIIVN	ENFRDSQGKL	DVPKSFKPCD	IDNKIGN.AK
dq473498-10	ITSLPAMNRR	FFFDLDIIVC	EKYKDPQGKL	NVTAAFRPCD	VDAKIGN.AR
hrv-10	ITSLPAMNRR	FFFDLDIIVC	EKYKDPQGKL	NVTAAFRPCD	VDAKIGN.AR
ef173414-11	ITSLPAMNRR	FFLDLDIVVN	EKYKDLQGKL	NVTAAFQPCD	VNVRIGN.AR
ef173415-12	ITSTTAMNRR	FYLDLDIVVH	PRFQINQGKL	NLVAALKPCD	.TGKVG.N.AT
hrv-13	ITSLQAMNRR	FFLDLDIVVH	DNYKDAQGKL	DVSKAFRPCD	VTKKIGN.AR
hrv-13-f03	ITSLQAMNRR	FFLDLDIVVH	DNYKDAQGKL	DVSKAFKPCD	IDTKIGN.AR
dq473493-15	ITLSAMNRR	FFLDLDIVIH	DNYKDNQGKL	DVSKSFKPCD	VDNKIGN.AK
l24917-16	ISSLPAMNRR	FYLDLDILVH	DNYKDNQGKL	DVSRAFRLCD	VDSKIGN.AK
hrv-18	ITSLPAMNRR	FFLDLDIIVC	DKYKDSQGKL	NVSAAFQLCD	VNTKVG.N.AR
hrv-19	ITLSAMNRR	FYLDLDIIVH	DNYKDGQGKL	DVPKSFKPCD	VDSKIGN.AK
hrv-20	ISCTTAMNRR	FFLDLDIIVK	DDYKLGHGKL	NLQCALKPCN	.VGKIGN.AK
hrv-21	ITSLPAMNRR	FFMDLDIIVC	DKYKDAQGKL	NVSAAFKPCD	VDTKIGN.AR
hrv-22	ITLSAMNRR	FFLDLDIVVH	XXYKDNLGKL	DVPKSFRPCD	VDNKIGN.AK
dq473497-23	ITSLPAMNRR	FFFDLDIIVH	DNFKDSQGKL	NVAAAFKPCD	VDIKIGN.AR
hrv-24	ITSLPAMNRR	FFLDLDIVVN	GKYKDSQGKL	NVSAAFRPCD	VDAKIGN.AR
ef173416-24	ITSLPAMNRR	FFLDLDIVVN	GKYKDSQGKL	NVSAAFRPCD	VDAKIGN.AR
hrv-25	ITSLPAMNRR	FFFDLDIIVC	DKYKDPQGKL	NVSAAFRPCD	IDTKIGN.AR

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dq473508-28	ITCTTAMNRR	FFLDLDIVVK	DEYKLSQGKL	NLQCALKPCN	.VGKIGN.AK
hrv-29	ITSLPAMNRR	FFFDLDIVVC	DKYKDSQGKL	NVSAAFQPCD	VDIKIGN.AR
dq473512-30	ITSLPAMNRR	FFLDLDIIVH	DRFKDPQGKL	NVAAAFRPCD	VDNKIGN.AR
hrv-30	ITSLPAMNRR	FFLDLDIIVH	DRFKDPQGKL	NVAAAFRPCD	VDNKIGN.AR
hrv-31	ITSLPAMNRR	FFLDLDIXVC	DKYKDPQGKL	NVAAAFRPCD	VDTKIGN.AR
hrv-32	ITSLSAMNRR	FYLDLDIVVN	ENYKDTQGKL	XVPKSFKPCD	IDNKIGN.AK
hrv-33	ITSLPAMNRR	FYLDLDIVVS	EKYKDQQGKL	NVAAAFQPCD	VNAKIGN.AR
hrv-34	ITSLPAMNRR	FFLDLDIVVC	EKYKDSQGKL	NVSAAFRPCD	VNTKIGN.AR
dq473501-34	ITSLPAMNRR	FFLDLDIVVC	EKYKDSQGKL	NVSAAFRPCD	VNTKIGN.AR
dq473505-36	VSSLPAMSRR	FYFDLDIQVK	KDY.LLDGKL	DIAKSFRPCD	VNTKIGN.AK
hrv-38	ITSLSAMNRR	FFLDLDITVH	DNYKDNQGKL	NVPKSFKPCD	VDNKIGN.AK
dq473495-38	ITSLSAMNRR	FFLDLDITVH	DNYKDNQGKL	NVPKSFKPCD	VDNKIGN.AK
ay751783-39	ITSLPAMNRR	FFLDLDIIVH	DNYKDAQGKL	NVAAAFRPCD	VNTKIGN.AR
hrv-40	ITSLPAMNRR	FFLDLDIIVC	DKYKVAQGKL	NVSAAFKPCD	VNTKIGN.AK
dq473491-41	ITSLQAMNRR	FFLDLDIVVH	ENYKDAQGKL	DVSRFAFKPCD	VDTKIGN.AR
hrv-43	ITSLPAMNRR	FFLDLDIVVH	DNYKDAQDKL	NVPKAFKPCD	VDNKIGN.AR
dq473499-44	ITSLPAMNRR	FFFDLDIVVC	DKYKDSQGKL	NVSAAFQPCD	VDVKIGN.AR
hrv-45	ISTIPALNRR	LFFDLTVKVN	PRY.QEAGKL	NLDCALKPCN	HELVGN.AR
dq473506-46	ITCTTAMNRR	FFLDLDIIVK	DEYKLNQGKL	NLQCALRPCK	.EGKIGN.AK
hrv-47	ITSLPAMNRR	FFLDLDIVVC	DKYKDPQGKL	NVAAAFQPCD	VNTKIGN.AR
dq473496-49	ITSLPAMNRR	FFLDLDIIVH	DNFKDSQGKL	NVAAAFQPCN	VDNKIGN.AR
hrv-49-f04	ITSLPAMNRR	FFLDLDILVH	DNFKDSQGKL	NVAAAFQPCD	VDNKIGN.AR
hrv-50	IXSLPAMNRR	FFLDLDIIVC	DKYKDSQGKL	NVSAAFQPCD	VNTKIGN.AR
hrv-51	ITCTTAMNRR	FFLDLDIVVK	DVFKINQGRL	NLQCALKPCK	.EGKVGN.AK
dq473507-53	ITCTTAMNRR	FFLDLDIIVK	DDYKLGQGKL	NLQCALKPCK	.EGKIGN.AK
hrv-54	ITSLPAMNRR	FFLDLDIVVC	DKYKDSQGKL	NVSAAFKPCD	VNTKIGN.AK
hrv-54-f05	ITSLPAMNRR	FFLDLDIVVC	DKYKDSQGKL	NVSAAFKPCD	VNTKIGN.AK
dq473511-55	ITSLPAMNRR	FFMDLDIIVN	DKYKDSQGKL	NVSAAFKPCD	VDVKIGS.AR
hrv-56	ITSLPAMNRR	FFFDLDIIVC	DKYKDPQGKL	NVSAAFQPCD	VDTKIGN.AR
hrv-57	ITSLPAMNRR	FFMDLDIIVN	DKYKDAQGKL	NVSAAFKPCD	VDTKIGN.AR
hrv-58	VSSLPAMSRR	FYFDLDIQVK	KDY.LLDGKL	DIAKSFRLCD	INTKIGN.AR
dq473500-59	ITSLPAMNRR	FYLDLDIIVN	DRYKDPQGKL	NVSAAFQPCD	VDAKVGN.AR
hrv-60	ITSLSAMNRR	FYLDLDITVH	DNYKDNLGKL	DVPKAFKPCD	VDTKIGN.AK
hrv-61	ITSLQAMNRR	FFLDLDIVVH	DNYKDSQGKL	NVSKAFKPCD	VGTKIGN.AR
hrv-62	ITSLPAMNRR	FFFDLDIVVC	DKYKDSQGKL	NVSAAFRPCD	IDTKIGN.AR
hrv-63	ITSLPAMNRR	FFLDLDIVVN	DRYKDSQGKL	NVSAAFQPCD	VNAKVGN.AR
hrv-64	ITSLSAMNRR	FFLDLDIVVH	ERYKDNQGKL	DVPKSFKPCD	VDNKIGN.AK
ef173417-64	ITSLSAMNRR	FFLDLDIVVH	ERYKDNQGKL	DVPKSFKPCD	VDNKIGN.AK
hrv-65	ITCTTAMNRR	FFLDLDIVVK	EVFKINQGRL	NLQCALKPCK	.DGKIGN.AR
hrv-66	ITSLPAMNRR	FFLDLDIVVC	DKYKDSQGKL	NVSAAFRPCD	VNTKIGN.AR
hrv-67	ITSLSAMNRR	FYLDLDIVVN	ENYRDTQGKL	NVPKSFKPCD	IDNKIGN.AK
hrv-68	ITCTTAMNRR	FFLDLDIVVK	DKYKLSQGKL	NLQCALKPCN	.EGKIGN.AX
hrv-71	ITCTPAMNRR	FFLDLDIIVK	DDYKINQGKL	NLQCALKPCK	.VGKVGN.AK
dq473492-73	ITSLQAMNRR	FFLDLDIVVH	DNYKDTQGKL	DVSKAFKPCD	VGTKIGN.AR
dq473494-74	ITSLSAMNRR	FFLDLDIVVH	DNYRDNQGKL	YVPKSFKPCD	IDNKIGN.AK
dq473510-75	ITSLPAMNRR	FFLDLDIVVH	DNYKDIQGKL	DVPKAFKLCD	IDTKVGN.AR
dq473502-76	ITSLPAMNRR	FYLDLDIVVS	EKYKDQQGKL	NVAAAFQPCD	VNVKIGN.AR
hrv-76	ITSLPAMNRR	FYLDLDIVVS	EKYKDQQGKL	NVAAAFQPCD	VNVKIGN.AR
hrv-77	ITSLPAMNRR	FFLDLDIVVC	DKYKDSQGKL	NVSAAFQLCD	VNTKVGN.AR
hrv-78	ISSLPAMNRR	FFLDLDIEVS	ENYKDGNGRI	QLDCALKPCN	DNIKIGN.AK
ef173418-78	ISSLPAMNRR	FFLDLDIEVS	ENYKDGNGRI	QLDCALKPCN	DNIKIGN.AK
hrv-80	ITCTTAMNRR	FFLDLDITVK	EEYKIQQGKL	NLRCALKPCK	.EGKVGN.AK
hrv-81	ISSLPAMNRR	FYLDLDITVH	DNFKDNQGKL	DVSRFAQPCD	TNLKIGN.AK
hrv-81-f06	ISSLPAMNRR	FYLDLDITVH	DNFKDNQGKL	DVSRFAQPCD	TNLKIGN.AK
hrv-81-f07	ISSLPAMNRR	FYLDLDITVH	DNFKDNQGKL	DVSRFAQPCD	TNLKIGN.AK
hrv-82	ITSLSAMNRR	FYLDLDIIVH	ENYKNTQGKL	DVSRSFKPCD	VDTKIGN.AK
dq473509-82	ITSLSAMNRR	FYLDLDIIVH	ENYKNAQGKL	DVSRSFKPCD	VDTKIGN.AK
hrv-85	ITSLPAMNRR	FFLDLDIIVC	DKYKDAQGKL	NVCAAFKPCD	IDTKIGN.AK

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pico-85	ITSLPAMNRR	FFLDLDIIVC	DKYKDAQGKL	NVCAAFKPCD	IDTKIGN.AK
dq473504-88	VSSLPAMSRR	FYFDLDIQVK	KEY.LMGGKL	DIAKSFRPCD	VDIKIGN.AK
a10937-89	VSSLPAMARR	FYFDLDIQVK	KEY.LLDGKL	DIAKSFRPCD	VNIKIGN.AK
hrv-89	VSSLPAMARR	FYFDLDIQVK	KEY.LLDGKL	DIAKSFRPCD	VNTKIGN.AK
hrv-89-f08	VSSLPAMARR	FYFDLDIQVK	KEY.LLDGKL	DIAKSFRPCD	VNTKIGN.AK
hrv-89-f09	VSSLPAMARR	FYFDLDIQVK	KEY.LLDGKL	DIAKSFRPCD	VNTKIGN.AK
m16248-89	VSSLPAMARR	FYFDLDIQVK	KEY.LLDGKL	DIAKSFRPCD	VNIKIGN.AK
hrv-90	ITSLPAMNRR	FFLDLDIVVN	DKYKDSQGKL	NVSAAFQPCD	VDAKIGN.AR
hrv-94	ITSLSAMNRR	FFLDLDIVVH	ERYKDNQGKL	DVPKSFKPCD	VDNKIGN.AK
ef173419-94	ITSLSAMNRR	FFLDLDIVVH	ERYKDNQGKL	DVPKSFKPCD	VDNKIGN.AK
hrv-95	ISTLPALNRR	LFLDLTIKVN	PKY.LESGKL	NLDCALKACD	QEQKIGN.AR
hrv-96	ITSLQAMNRR	FFLDLDIVVH	DNYKDAQGKL	DVSKAFKPCD	VXAKIGN.AR
hrv-98	ITSLPAMNRR	FFLDLDIIVC	DKYKDSQGKL	NVSAAFKPCD	VDTKIGN.AK
hrv-100	ITSLPAMNRR	FFLDLDIIVC	DKYKDSQGKL	NVSAAFKPCD	VDAKIGN.AR
ef186077-qpm	VSSPEAIDRR	FFLDCDVKIM	PAY.NTNLL	NVAKALLPCT	DCPKPEFYKQ
ef077279-nat001	VSTPEAIDRR	FFLDCDVKIM	PAY.NTNLL	NVAKALLPCT	DCPKPEFYKQ
ny1078	VSSPEAIDRR	FFLDCDVKIM	PAY.NTNLL	NVAKALLPCT	DCPKPEFYKQ
ef582385-c024	VTVPEAIDRR	FYLDLDLKIL	QGYQNQVGLL	DTAKALQPCA	NCSKPPHYKQ
ef077280-nat045	IQTPEALERR	FFLDMDVKVL	SPYSSQRGLL	DTAKALQPCT	KCDKPTHYSR
ef582387-c026	VSSPEAIDRR	FFLDCDVKIM	PAY.NTNLL	NVAKALLPCT	DCPKPEFYKQ
ef582386-c025	ITYPEAITRR	FFLDVDLKIM	PGYKTHAGLL	DTAKALQACS	DCAKPLHYKQ
dq473485-03	ILNPEALIRR	FGFDLDICMH	STY.TKNGKL	NAAMATSLCK	DCHQPSNFKK
ef173422-03	ILNPEALIRR	FGFDLDICLH	STY.TKNGKL	NAAMATSLCK	DCHQPSNFKK
dq473490-04	ILNPEALARR	FGFDLDMCLH	TTF.TRSGKL	NAALASELCK	DCHKPANFCK
hrv-05	VLNPEALARR	FGFDLDMCLH	TTY.TKSGKL	NTALASELCK	DCHKPTNFKR
dq473486-06	ILNPEALARR	FGFDLDICLH	STY.TKNGKL	NATMSTSLCK	DCHQPANFCK
l05355-14	ILNPEALVRR	FGFDLDICLH	TTY.TKNGKL	NAGMSTKTCK	DCHQPSNFKK
k02121-14	ILNPEALVRR	FGFDLDICLH	TTY.TKNGKL	NAGMSTKTCK	DCHQPSNFKK
ef173420-17	ILNPEALARR	FGFDLDICLH	TTY.TKSGKL	NVAMATELCK	DCYKPSNFNK
hrv-26	ILNPEALARR	FGFDLDMCLH	STF.TKSGKL	NAALASELCK	DCHKPTNFKR
hrv-27	VLNPEALARR	FGFDLDMCLH	SSF.TKSGKL	NTAMACELCK	DCHKPTNFKK
ef173421-27	VLNPEALARR	FGFDLDMCLH	SSF.TKSGKL	NTAMACELCK	DCHKPTNFKK
dq473487-35	ILNPEALARR	FGFDLDICLH	STY.TKNGKL	NVTMATSICK	DCHQPSNFKK
hrv-35	ILNPEALARR	FGFDLDICLH	STY.TKNGKL	NVTMATSICK	DCHQPSNFKK
ef173423-37	ILNPEALARR	FGFDLDICLH	STY.TKNGKL	NTTMSTSICK	DCHQPSNFKK
hrv-42	VLNPEALARR	FGFDLDMCLH	TTY.TKSGKL	NAALASELCK	DCHKPTNFKR
dq473488-48	ILNPEALARR	FGFDLDICLH	TTY.TKSGKL	NAAMATELCK	DCHKPSNFNK
hrv-52	ILNPEALARR	FGFDLDICLH	TTY.TKSGKL	NAAMATELCK	DCHKPSNFSK
hrv-52-f10	ILNPEALARR	FGFDLDICLH	TTY.TKSGKL	NVAMATELCK	DCHKPSNFSR
ef173424-52	ILNPEALARR	FGFDLDICLH	TTY.TKSGKL	NAAMATELCK	DCHKPSNFSK
hrv-69	ILNPEALVRR	FGFDLDICLH	TSF.TKSGKL	NVAMATELCK	DCHKPSNFNK
dq473489-70	ILNPEALARR	FGFDLDICLH	TTY.TKSGKL	NAAMATELCK	DCHKPSNFNK
hrv-72	ILNPDALARR	FGFDLDICLH	STY.TKNGKL	NAAMATRVCK	DCHQPTNFKK
hrv-79	ILNPEALVRR	FGFDLDICLH	TTF.TKNGKL	NAAMATSICK	DCHQPSNFKK
hrv-83	ILNPEALVRR	FGFDLDICLH	STY.TKNGKL	NAAMATSICK	DCHQPSNFKK
hrv-84	VLNPEALARR	FGFDLDMCLH	SSY.TKSGKL	NVAMACELCK	DCHTPTNFKK
hrv-86	ILNPEALTRR	FGFDLDICLH	STY.TKNGKL	NASMATSLCK	DCHKPSNFKK
hrv-91	ILNPEALVRR	FGFDLDICLH	TTY.TKSGKL	NAAMATELCK	DCHKPSNFNK
hrv-92	ILNPEALARR	FGFDLDICLH	STY.TKNGKL	NAAMVTICK	DCHQPTNFKK
ef173425-93	VLNPEALARR	FGFDLDMCLH	SSF.TKSGKL	NAAMACELCK	DCHKPTNFKK
hrv-97	VLNPEALARR	FGFDLDMCLH	SSF.TKSGKL	NAAMACELCK	DCHKPTNFKK
hrv-99	ILNPEALARR	FGFDLDMCLH	TTY.TRSGKL	NAALASELCK	DCHKPTNFKR

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1500

annotation					QG
af499637-cva13	CCPLVCGKAI	QLMDKYSRQR	FSVDEITTLV	INEKNRRANI	GNCMEALFQG
af546702-cva21	CCPLVCGKAL	QLMDRYTRQR	FTVDEITTLI	MNEKNRRANI	GNCMEALFQG
v01149-pv1m	CCPLVCGKAI	QLMDKSSVR	YSIDQITMI	INERNRRSNI	GNCMEALFQG

TableS3.hrvPro.Nov6.txt

d00239-01	CCPFVCGKAV	SFKDRSTCST	YTTLAQVYNHI	LEEDKRRRRQV	VDVMSAIFQG
pico-01	CCPFVCGKAV	TFKDRSTCST	YTTLAQVYNHI	LEEDKRRRRQV	VDVMSAIFQG
hrv-01	CCPFVCGKAV	XFKDRSTCST	YTTLAQVYNHI	LEEDKRRRRQV	VDVMSAIFQG
x02316-02	CCPFVCGKAV	SFKDRNSCNK	YSLAQVYNIM	IEEDRRRRRQV	VDVMTAIFQG
hrv-07	CCPFICGKAV	EFKDRNTCAV	LSLSRLYNHI	REEDRRRRSSA	AQAMEAIFQG
dq473503-07	CCPFICGKAV	EFKDRNTCAV	LSLSRLYNHI	REEDRRRRSSA	AQAMEAIFQG
hrv-08	CCPLICGKAV	SFVNRRNNNEE	LSLSRVYNQI	VHEHNRRRLNV	SKHMEAIFQG
pico-09	CCPFICGKAV	VFKDRNTCQT	YTLCQIYNMI	IEEDKRRRRNV	IDVMTAIFQG
hrv-09	CCPFICGKAV	VFKDRNTCQT	YTLCQIYNMI	IEEDKRRRRNV	IDVMTAIFQG
hrv-09-f01	CCPFICGKAV	VFKDRNTCQT	YTLCQIYNMI	IEEDKRRRRNV	IDVMTAIFQG
hrv-09-f02	CCPFICGKAV	VFKDRNTCQT	YTLCQIYNMI	IEEDKRRRRNV	IDVMTAIFQG
dq473498-10	CCPFICGKAV	MFRDRNTCQT	YTTLAQVYNRI	LDEDKRRRRQV	IDVMAAIFQG
hrv-10	CCPFICGKAV	MFRDRNTCQT	YTTLAQVYNRI	LDEDKRRRRQV	IDVMAAIFQG
ef173414-11	CCPFICGKAV	MFKDRNTCQS	YTTLAQVYNRI	LDEDKRRRRQV	VDVMSAIFQG
ef173415-12	CCPLICGKAI	TFRDRNTNES	YALSTIYNKI	VEENKNRKML	SKSLEAIFQG
hrv-13	CCPFICGKAV	TFKDRNTCQS	YPLSQIYNLI	LEEDKRRRTHV	VDVMTAIFQG
hrv-13-f03	CCPFICGKAV	TFKDRNTCQS	YPLSQIYNLI	LQEDKRRRTHV	VDVMTAIFQG
dq473493-15	CCPFICGKAV	TFKDRNNCQA	YSLSRIYNMI	MEEDKRRRRNV	VDVMTAIFQG
l24917-16	CCPFVCGKAV	TFKDRNTCRT	YSLSQIYNQI	LEEDKRRRRQV	VDVMSAIFQG
hrv-18	CCPFICGKAV	IFRDRNTCQT	YTLSQVYNLI	LEEDRKRRTRV	VDVMAAIFQG
hrv-19	CCPFICGRAV	SFKDRNTCRE	YSLSQIYNVI	MEEDKRRRRNV	VDVMSAIFQG
hrv-20	CCPLICGKAL	QFRDRNTGEH	LSLATVYNRI	TQESKNRKEL	TNSLQAIFQG
hrv-21	CCPFICGKAV	MFKDRNTCRT	YTTLAQIYNQI	LEEDKRRRRQV	IDVMSAIFQG
hrv-22	CCPFICGKAV	SFKDRNTCQE	YSLSXIYNMI	IEEDKRRRRNV	VDVMTAIFQG
dq473497-23	CCPFVCGKAV	SFKDRNSCNK	YTTLAQIYNIM	LEEDRRRRRQM	VDVMSAIFQG
hrv-24	CCPFICGKAV	MFKDRNTCTS	YTLSQVYNNI	LDEDKRRRRQV	VDVMSAIFQG
ef173416-24	CCPFICGKAV	MFKDRNTCTS	YTLSQVYNNI	LDEDKRRRRQV	VDVMSAIFQG
hrv-25	CCPFICGKAV	VFRDRNTCQT	YTTLAQVYNQI	LVEDKRRRRQV	IDVMAAIFQG
dq473508-28	CCPLICGKAL	QFKDRNSGDY	LSLATVYNRI	TQESKNRKDL	TNSLQAIFQG
hrv-29	CCPFICGKAV	NFRDRNTCQT	YTTLAQVYNQI	LAEDKRRRRRV	IDVMAAIFQG
dq473512-30	CCPFVCGKAV	SFKDRNTCNK	YTTLAQIYNIM	LEEDQRRRRQM	VDVMSAIFQG
hrv-30	CCPFVCGKAV	SFKDRNTCNK	YTTLAQIYNIM	LEEDQRRRRQM	VDVMSAIFQG
hrv-31	CCPFICGKAV	IFRDRNNCQT	YTTLAQVYNQI	LAEDKRRRRQV	VDVMAAIFQG
hrv-32	CCPFICGKAV	VFKDRNTCQT	YTLCQIYNMI	IEEDKRRRRSV	VDVMSAIFQG
hrv-33	CCPFICGKAV	MFKDRNTCQS	YTTLAQVYNHI	LEEDRRRRRQV	VDVMSAIFQG
hrv-34	CCPFICGKAV	NFRDRNTCQT	YTLSQVYNQM	LEEDKRRRRQV	IDVMAAIFQG
dq473501-34	CCPFICGKAV	NFRDRNTCQT	YTLSQVYNQM	LEEDKRRRRQV	IDVMAAIFQG
dq473505-36	CCPFICGKAV	EFKDRNSCTT	LSLSQLYNHI	KEEDRRRRSSA	AQAMEAIFQG
hrv-38	CCPFICGKAV	SFKDRNTCQT	YSLSQIYNMV	IEEDKRRRRNV	VDVMSAIFQG
dq473495-38	CCPFICGKAV	SFKDRNTCQT	YSLSQIYNMI	IEEDKRRRRNV	VDVMSAIFQG
ay751783-39	CCPFVCGKAV	SFKDRNSCNK	YTTLAQIYNIM	LEEDKRRRRQV	IDVMSAIFQG
hrv-40	CCPFICGKAV	IFRDRNTCQT	YTTLAQVYNLI	LDEDKRRRRQV	IDVMAAIFQG
dq473491-41	CCPFICGKAV	TFKDRNTCLN	YSLSQIYNLI	LEEDKRRRTHV	VDVMSAIFQG
hrv-43	CCPFICGKAV	SFKDRNTCQS	YALCQIYNKV	LEEDKRRRRNV	VDVMSAIFQG
dq473499-44	CCPFICGKAV	NFRDRNTCQT	YTTLAQVYNQI	LAEDKRRRRQV	VDVMAAIFQG
hrv-45	CCPLICGKAI	TFINRHNNNEE	LTLSQIYNQV	VNEHNRRRLNV	SKHMEAIFQG
dq473506-46	CCPLICGKAL	QFRDRSNGEH	LSLATIYNRI	THESKNRKEL	TNSLQAIFQG
hrv-47	CCPFICGKAV	IFRDRNNCQT	YTTLAQVYNRI	LVEDKRRRRQV	VDVMAAIFQG
dq473496-49	CCPFVCGKAF	SFKDRNSCNK	YTTLAQVYNIM	LEEDKRRRRQV	VDVMSAIFQG
hrv-49-f04	CCPFVCGKAV	SFKDRNTCNK	YTTLAQVYNIM	LEEDKRRRRQV	VDVMSAIFQG
hrv-50	CCPFICGKAV	NFRDRNTCQT	YTTLAQVYNQM	LEEDKRRRRXV	IDVMTAIFQG
hrv-51	CCPLICGKAV	VFRDRNTGDY	LSLSTIYNRI	TEESRNRKEL	NTSLQAIFQG
dq473507-53	CCPLICGRAL	QFRDRSNGEH	LSLATIYNRI	TQESKNRKEL	TNSLQAIFQG
hrv-54	CCPFICGKAV	VFRDRNTCQT	YTLSQVYNQI	LDEDKRRRRQV	VDVMAAIFQG
hrv-54-f05	CCPFICGKAV	MFRDRNTCQT	YTLSQVYNQI	LDEDKRRRRQV	VDVMAAIFQG
dq473511-55	CCPFICGKAV	MFKDRNTCHT	YALAQVYNQI	LDEDKRRRRQV	IDVMSAIFQG
hrv-56	CCPFICGKAV	MFRDRNTCQT	YTTLAQVYNQI	LEEDRRRRRQV	IDVMAAIFQG
hrv-57	CCPFICGKAV	TFKDRNTCXT	FSLAQVYNQI	LDEDKRRRRQV	IDVMSAIFQG

TableS3.hrvPro.Nov6.txt

hrv-58	CCPFICGKAV	EFKDRNTCNV	LSLSQLYNHI	REEDRRRSSA	AQAMEAIFQG
dq473500-59	CCPFICGKAV	TFRDRNTCQN	YTLSQVYNQM	LEEDKRRRQV	VDVMAAIFQG
hrv-60	CCPFICGKAV	SFKDRNTCQV	YPLSQIYNLI	IEEDKRRRNV	VDVMSAIFQG
hrv-61	CCPFICGKAV	TFKDRNTCLS	YPLSQIYNLI	LQEDKRRTHV	VDVMSAIFQG
hrv-62	CCPFICGKAV	IFRDRNTCQT	YTTLAQVYNQI	LAEDKRRRQV	IDVMAAIFQG
hrv-63	CCPFICGKAV	TFRDRNTCQN	YTLSQVYNHM	LEEDKRRRQV	VDVMAAIFQG
hrv-64	CCPFICGKAV	SFRDRNTCQE	YSLCQIYNII	IEEDKRRRNV	VDVMTAIFQG
ef173417-64	CCPFICGKAV	SFRDRNTCQE	YSLCQIYNII	IEEDKRRRNV	VDVMTAIFQG
hrv-65	CCPLICGKAV	VFKDRNTGDY	LSLATVYNKI	TEENRNRKEL	NTSLQAIFQG
hrv-66	CCPFICGKAV	VFRDRNTCQT	YTTLAQVYNLM	LEEDRKRTQV	IDVMAAIFQG
hrv-67	CCPFICGKAV	VFKDRNTCQT	YTLCQIYNMI	IEEDKRRRNV	IDVMTAIFQG
hrv-68	CCPLICGKAL	QFRDRNNGDH	LSLATIYNRI	TQESKNRKDL	TNSLQAIFQG
hrv-71	CCPLICGKAV	LFRDRNTGEH	LSLATIYNKI	VEESKNRKEL	NTSLQAIFQG
dq473492-73	CCPFICGKAV	TFKDRNTCLS	YSLSQIYNLI	LQEDKRRTHV	VDVMTAIFQG
dq473494-74	CCPFICGKAV	TFKDRNNCQI	YSLSQIYNMI	IEEDKRRRNV	IDVMTAIFQG
dq473510-75	CCPFICGKAV	TFKDRNTCQS	YTLSQIYNKI	LEEDKRRRNV	VDVMIAIFQG
dq473502-76	CCPFICGKAV	MFKDRNTCQS	YTTLAQVYNHI	LNEDKRRRQV	VDVMSAIFQG
hrv-76	CCPFICGKAV	MFKDRNTCQS	YTTLAQVYNHI	LNEDKRRRQV	VDVMSAIFQG
hrv-77	CCPFICGKAV	VFRDRNTCQT	YTLSQVYNLI	LEENRKRTQV	VDVMAAIFQG
hrv-78	CCPFVCGKAI	TFRDRNSCEK	YTLARIYHKI	LEEDKRRQCL	SNALEAVFQG
ef173418-78	CCPFVCGKAI	TFRDRNSCEK	YTLARIYHKI	LEEDKRRQCL	SNALEAVFQG
hrv-80	CCPLICGKAL	VFRDRNTGEH	LSLATIYNRI	VEESKNRKEL	TNSLQAIFQG
hrv-81	CCPFVCGKAV	MFKDRNTCRT	YSLSQVYNQI	LEEDKRRRQV	VDVMSAIFQG
hrv-81-f06	CCPFVCGKAV	MFKDRNTCKT	YSLSQVYSQI	LEEDKRRRQV	IDVMSAIFQG
hrv-81-f07	CCPFVCGKAV	MFKDRNTCKT	YSLSQVYSQI	LEEDKRRRQV	IDVMSAIFQG
hrv-82	CCPFICGKAV	SFKDRNTCEV	YSLCRIYNMI	MQEDRHRRSV	VDVMTAIFQG
dq473509-82	CCPFICGKAV	SFKDRNTCEV	YSLCQIYNMI	MQEDRHRRSV	VDVMTAIFQG
hrv-85	CCPFICGKAV	IFRDRNTCQT	YTTLAQVYNLI	LDEDKRRRQV	IDVMAAIFQG
pico-85	CCPFICGKAV	IFRDRNTCQT	YTTLAQVYNLI	LDEDKRRRQV	IDVMAAIFQG
dq473504-88	CCPFICGKAV	EFKDRNTCAT	LSLSQLYNHI	REEDRRRSSA	ARAMEAIFQG
a10937-89	CCPFICGKAV	EFKDRNSCTT	LSLSQLYSHI	KEEDRRRSSA	AQAMEAIFQG
hrv-89	CCPFICGKAV	EFKDRNSCTT	LSLSQLYSHI	KEEDRRRSSA	AQAMEAIFQG
hrv-89-f08	CCPFICGKAV	EFKDRNSCTT	LSLSQLYSHI	KEEDRRRSSA	AQAMEAIFQG
hrv-89-f09	CCPFICGKAV	EFKDRNSCTT	LSLSQLYSHI	KEEDRRRSSA	AQAMEAIFQG
m16248-89	CCPFICGKAV	EFKDRNSCTT	LSLSQLYSHI	KEEDRRRSSA	AQAMEAIFQG
hrv-90	CCPFVCGKAV	MFKDRNTCXS	YTTLAQVYNTI	LDEDKRRRRV	IDVMSAIFQG
hrv-94	CCPFICGXAV	SFRDRNTCQE	YSLSQIYNMI	IEEDKRRRNV	VDVMTAIFQG
ef173419-94	CCPFICGKAV	SFRDRNTCQE	YSLSQIYNMI	IEEDKRRRNV	VDVMTAIFQG
hrv-95	CCPLICGKAV	SFVNRNNNEE	LSLSRVYNQI	VHEHNRLN	SKHMEAIFQG
hrv-96	CCPFICGKAV	TFKDRNTCLS	YPLSQIYNLI	LQEDKRRTHV	VDVMSAIFQG
hrv-98	CCPFVCGKAV	VFRDRNTCQT	YTTLAQVYNQI	LYEDKRRRQV	VDVMAAIFQG
hrv-100	CCPFICGKAV	VFRDRNTCQS	YTTLAQVYNQI	LVEDKRRRQV	IDVMAAIFQG
ef186077-qpm	CCPLTCGKAL	ILQNKRTKAS	YSINTVVQQL	RQEKKNRKCV	EHNLTAIFQG
ef077279-nat001	CCPLTCGKAL	ILQNKRTKAS	YSINTVVQQL	RQEKKNRKCV	EYNLTAIFQG
ny1078	CCPLICGKAL	ILQNKRTKAS	YSINTVVQQL	RQEKKNRKCV	EHNLTAIFQG
ef582385-c024	CCPLLCGKAV	VLVNRRTKGS	YAINMVVQQL	IEESKSRSKV	GNNLTAIFQG
ef077280-nat045	CCPLLCGKAV	VLVNRKTQVS	YSVNMIVEQL	RTEYGNRRSV	KTNLAAIFQG
ef582387-c026	CCPLTCGKAL	ILQNKRTKAS	YSINTVVQQL	RQEKKNRKCV	EHNLTAIFQG
ef582386-c025	CCPLLCGKAI	ILQNRRTSAS	LSINMVVSQI	REESTTRKRV	HTNLNAIFQG
dq473485-03	CCPLVCGKAI	SLVDRVSNVR	FSIDQLVTAI	INDYKNKVKI	TDSLEVLFQG
ef173422-03	CCPLVCGKAV	SLVDRVSNVR	FSIDQLVTAI	INDYKNKVKI	TDSLEVLFQG
dq473490-04	CCPLICGKAL	SLVDRHTNVR	YSIDQLVTAI	ITEHVNKTKI	SNSLEVLFQG
hrv-05	CCPLICGKAL	SLVDRRTNVR	YSIDQLVTAI	ITEHANKTKI	SSSLEALFQG
dq473486-06	CCPLVCGKAI	SLVDRTTNIR	YSVDQLVTAI	INDYKNKMKI	TDSLEVLFQG
l05355-14	CCPLVCGKAI	SLVDRTTNVR	YSVDQLVTAI	ISDFKSKMQI	TDSLETFLFQG
k02121-14	CCPLVCGKAI	SLVDRTTNVR	YSVDQLVTAI	ISDFKSKMQI	TDSLETFLFQG
ef173420-17	CCPLICGKAI	SLVDRSSNVR	YSLDQLVTAI	ITDFNNKLKI	TDSLEVLFQG
hrv-26	CCPLICGKAL	SLVDRRTNVR	YSIDQLVTAI	ITEHVNKTKI	SSSLEVLFQG

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hrv-27	CCPLICGKAL	SLVDRHTNVR	YSIDQLVTAI	LQEHNNKTKI	TNSLEILFQG
ef173421-27	CCPLICGKAL	SLVDRHTNVR	YSIDQLVTAI	LQEHNNKTKI	TNSLEILFQG
dq473487-35	CCPLVCGKAI	SLVDRTSNVR	YSVDQLVTAI	INDYRNKVKI	TDSLEVLFQG
hrv-35	CCPLVCGKAI	SLVDRTSNVR	YSVDQLVTAI	INDYRNKVKI	TDSLEVLFQG
ef173423-37	CCPLVCGKAI	SLVDRATNIR	YSVDQLVTAI	INDYKNKIKI	TDSLEALFQG
hrv-42	CCPLICGKAL	SLVDRRTNVR	FSIDQLVTAI	ITEHANKTKI	SSSLEVLFQG
dq473488-48	CCPLICGKAI	SLVDRSTNVR	YSIDQLVTAI	ISDFNNKLKI	TDSLEILFQG
hrv-52	CCPLICGKAV	SLVDRSTNVR	YSLDQLVTAI	ITDYNKKLKI	TDSLEVLFQG
hrv-52-f10	CCPLICGKAI	SLVDRSTNVR	YSLDQLVTAI	ITDYNKKLKI	TDSLEVLFQG
ef173424-52	CCPLICGKAV	SLVDRSTNVR	YSLXQLVTAI	ITDYNKKLKI	TDSLEVLFQG
hrv-69	CCPLICGKAI	SLVDRSTNVR	YSLDQLVTAI	ITDFNNKLKI	TDSLEILFQG
dq473489-70	CCPLICGKAI	SLVDRTSNVR	YSLDQLVTAI	ITDFNNKLKI	TDSLEILFQG
hrv-72	CCPLVCGKAT	SLVDRATNVR	YSLDQLVTAV	VNDYKNKMQUI	TDSLETLFQG
hrv-79	CCPLVCGKAV	SLVDRATNIR	YSVDQLVTAI	INDYKNKMKI	TDSLEALFQG
hrv-83	CCPLVCGKAT	SLVDRATNIR	YSVDQLVTAI	ISDYKNKVKI	TDSLEILFQG
hrv-84	CCPLICGKAL	SLVDKHTNVR	YTIDQLVTAI	LQEHNNKTKI	TSSLEVLFQG
hrv-86	CCPLVCGKAI	SLVDRATNVR	YSVDQLITAI	INDYNNKIKI	TDSLETLFQG
hrv-91	CCPLICGKAI	SLVDRTSNVR	YSLDQLVTAI	ITDFNNKLKI	TDSLEVLFQG
hrv-92	CCPLVCGKAI	SLVDRATNIR	YSVDQLVSAI	INDYRNKIKI	TDSLEALFQG
ef173425-93	CCPLICGKAL	SLVDRHTNVR	YSIDQLVTAI	LQEHNNKTKI	TNSLEVLFQG
hrv-97	CCPLICGKAL	SLVDRHTNVR	YSIDQLVTAI	LQEHNNKTKI	TNSLEVLFQG
hrv-99	CCPLICGKAL	SLVDRRTNVR	YSIDQLVTAI	ITEHANKTKI	SSSLEVLFQG
1501					1550
annotation	P.....	H	HHHHHHHHHH	HHHHHHHHHH	.....
af499637-cva13	PLEFKDLKID	IKTSPPEECI	NDLLQSVDSP	EVREYCEKKG	WIVNVSSETT
af546702-cva21	PLRYKDLKID	VKTVPPPECI	SDLLQAVDSQ	EVRDYCEKKG	WIVNVTSQLQ
v01149-pv1m	PLQYKDLKID	IKTSPPEECI	NDLLQAVDSQ	EVRDYCEKKG	WIVNITSQVQ
d00239-01	P.....ISLD	...APPPPAI	ADLLQSVRTP	EVIKYCQDNK	WIVPAEC..Q
pico-01	P.....ISLD	...VPPPPAI	ADLLQSVRTP	EVIKYCQDNK	WVIPAEC..Q
hrv-01	P.....ISLD	...XPPPPAI	XDLLQSVRTP	EVIKYCQDNK	WVIPAEC..Q
x02316-02	P.....IDM.	..KNPPPPAI	TDLLQSVRTP	EVIKYCEGNN	WIIPAEC..K
hrv-07	IDL.	..HTPPPPAI	TDLLRSVRTP	EVVKYCQDNN	WIVPAEC..T
dq473503-07	IDL.	..HTPPPPAI	TDLLRSVRTP	EVVKYCQDNN	WIVPAEC..T
hrv-08	P.....INMQ	...SPPPPAI	VDLLRSTRNE	EVINYCKNQ	WIIPADV..S
pico-09	P.....ITM.	..NLPPPPAI	ADLLQSVRTP	EVVKYCEDNK	WTIPAEC..K
hrv-09	P.....ITM.	..NSPPPPAI	ADLLQSVRTP	EVVKYCEYNK	WIIPAEC..K
hrv-09-f01	P.....ITM.	..NSPPPPAI	ADLLQSVRTP	EVVKYCEDNK	WIIPAEC..K
hrv-09-f02	P.....ITM.	..NSPPPPAI	ADLLQSVRTP	EVVKYCEDNK	WIIPAEC..K
dq473498-10	P.....ITLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEGNK	WIIPAEC..K
hrv-10	P.....ITLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEGNK	WIIPAEC..K
ef173414-11	P.....ISLE	...RPPPPAI	SDLLQSVRTP	EVIKYCEGNK	WIIPAEC..K
ef173415-12	P.....ISL.	..KNPPPPAI	SDLLNAVRTP	EVIKYCEENN	WTVPAQC..T
hrv-13	P.....ISME	...VPPPPAI	TDLLRSVKTP	EVIKYCEDNK	WIIPADC..K
hrv-13-f03	P.....ISME	...APPPPAI	ADLLRSVKTP	EVIKYCEDNK	WIIPADC..R
dq473493-15	P.....ISM.	..NNPPPPAI	VDLLQSVRTP	EVVKYCEDNK	WMLPADC..K
l24917-16	P.....ISMD	...KPPPPAI	TDLLRSVRTP	EVIKYCQDNK	WIVPADC..Q
hrv-18	P.....ITLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEENK	WIIPAEC..K
hrv-19	P.....ISM.	..NAPPPAI	TDLLQSVRTP	EVIKYCEDNK	WXIPADC..K
hrv-20	P.....IDIV	..NKPPPPAI	IDLLESVRSP	DVIKYCEENK	WIIPSDC..K
hrv-21	P.....ISLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEANK	WIIPAEC..K
hrv-22	P.....ISMD	...XPPPPAI	XDLLQSVRTP	EVIKYCEXNK	WIIPAEC..K
dq473497-23	P.....IDM.	..KNPPPPAI	TDLLQSVRTP	EVIKYCEENR	WIIPAEC..K
hrv-24	P.....ITLE	...GPPPPAI	NDLLKSVRTP	EVIKYCEYNK	WTVPAEC..K
ef173416-24	P.....ITLE	...GPPPPAI	NDLLKSVRTP	EVIKYCEDNK	WTVPAEC..K
hrv-25	P.....ITIE	...GPPPPAI	NDLLKSVRTP	EVIRYCEENK	WIVPAEC..K
dq473508-28	P.....IDVV	..NKPPPPAI	IDLLKSVRNP	DVIRYCEENK	WIIPSDC..K
hrv-29	P.....ITLE	...GPPPPAI	NDLLKSVRTP	EVIKYCEENK	WIIPTEC..K

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dq473512-30	P.....IDM.	..RNPPPPAI	TDLLQAVRTP	EVIKYCEENK	WVIPAEC..K
hrv-30	P.....IDM.	..RNPPPPAI	TDLLQAVRTP	EVIKYCEENK	WIIPAEC..K
hrv-31	P.....ITLE	...GPPPPAI	NDLLKSVRTP	EVIKYCEDNK	WIVPTEC..K
hrv-32	P.....ISM.	..NSPPPPAI	ADLLQSVRTP	EVVKYCEYNK	WIIPAEC..K
hrv-33	P.....ISLE	...XPPPPAI	SDLLQSVRTP	EVIKYCEDNK	WIIPAGC..R
hrv-34	P.....ISME	...GPPPPAI	SDLLQSVRTP	EVIKYCEXNK	WMIPAEC..K
dq473501-34	P.....ISME	...GPPPPAI	SDLLQSVRTP	EVIKYCEVNK	WMIPAEC..K
dq473505-36	IDLQ	...SPPPPAI	ADLLRSVKTP	EIIKYCQGNN	WIVPAEC..S
hrv-38	P.....ISM.	..NAPPPPAI	EDLLQSVRTP	EVIKYCEENK	WIIPADC..K
dq473495-38	P.....ISM.	..NAPPPPAI	EDLLQSVRTP	EVIKYCEENK	WIIPADC..K
ay751783-39	P.....ISLQ	...NPPPPAI	ADLLQSVRTP	EVIKYCEENK	WIIPAEC..K
hrv-40	P.....ISLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEDNK	WIIPAGC..K
dq473491-41	P.....ISME	V...PPPPAI	TDLLRSVKTP	EVIKYCENNK	WIIPAEC..K
hrv-43	P.....ITLD	...APPPPAI	TDLLRSVRTP	EVIKYCEDNK	WMIPAGC..K
dq473499-44	P.....ITLE	...GPPPPAI	NDLLKSVRTP	EVIKYCEGNK	WIIPAEC..K
hrv-45	P.....IDMQ	...APPPPAI	VDLLRSTRNE	DVINYCKNQ	WIIPADI..S
dq473506-46	P.....IDVV	..NKPPPPAI	VDLLKSVRNP	DVIRYCEENK	WIIPADC..R
hrv-47	P.....ITLE	...GPPPPAI	NDLLKSVRTP	EVIKYCEDNK	WVIPAEC..K
dq473496-49	P.....IDM.	..KNPPPPAI	TDLLQSVRTP	EVIKYCEVNR	WIIPAEC..K
hrv-49-f04	P.....IDM.	..KNPPPPAI	TDLLQSVRTP	EVIKYCEDNR	WIIPAEC..K
hrv-50	P.....ISLE	...GPPPPAI	SDLLHSVRTP	EVIKYCEDNK	WIVPAEC..K
hrv-51	P.....IDVI	..NKPPPPAI	LDLLKSVRNP	DVIKYCEENK	WMIPADC..K
dq473507-53	P.....IDIV	..NKPPPPAI	VDLLKSVRNP	DVIRYCEENK	WIIPADC..K
hrv-54	P.....ISLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEYNK	WIIPAEC..K
hrv-54-f05	P.....ISLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEDNK	WIIPAEC..K
dq473511-55	P.....ISL.	..KGPPPPAI	SDLLQSVRTP	EVIKYCEENK	WIIPTEC..K
hrv-56	P.....ITLE	...GPPPPAI	SDLLQSVRTP	EVIKYCENNK	WIIPAEC..K
hrv-57	P.....ISLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEQNK	WIIPAEC..K
hrv-58	IDLQ	...SPPPPAI	TDLLRSVRTP	EIIKYCQGNN	WIVPAEC..S
dq473500-59	P.....ITLE	...GPPPPAI	NDLLQSVRTP	EVIKYCEYNK	WIIPAEC..K
hrv-60	P.....ISM.	..NAPPPPAI	ADLLQSVRTP	EVIKYCEENK	WVIPADC..K
hrv-61	P.....ISME	...VPPPPAI	TDLLRSVKTP	EVIKYCEDNK	WTIPADC..K
hrv-62	P.....ITIE	...GPPPPAI	NDLLKSVRTP	EVIRYCEENK	WMVPAEC..K
hrv-63	P.....ITLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEKNK	WIIPAEC..K
hrv-64	P.....ISMS	...APPPPAI	ADLLQSVRTP	EVIKYCEENK	WIIPADC..K
ef173417-64	P.....ISMS	...APPPPAI	ADLLQSVRTP	EVIKYCEENK	WIIPADC..K
hrv-65	P.....IDVV	..NKPPPPAI	LDLLKSVRNP	DVIKYCEDNK	WIVPADC..K
hrv-66	P.....ITLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEGNK	WIIPAEC..K
hrv-67	P.....ISM.	..NLPPPPAI	TDLLQSVRTP	EVVKYCEDNN	WIIPAEC..K
hrv-68	P.....IDVV	..NKPPPPAI	IDLLRSVRNP	DVIKYCEENK	WMIPSDC..K
hrv-71	P.....IDVV	..NKPPPPAI	LDLLKSVRNP	EVIRYCEDNR	WIVPVDC..R
dq473492-73	P.....ISME	...VPPPPAI	TDLLRSVRTP	EVIKYCENNK	WIVPADC..K
dq473494-74	P.....ISM.	..NNPPPPAI	ADLLQSVRTP	EVIKYCEDNK	WIIPAEC..K
dq473510-75	P.....ITLD	...APPPPAI	TDLLRSVRTP	EVIKYCEENK	WIIPTEC..R
dq473502-76	P.....ISLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEYNK	WIVPAEC..R
hrv-76	P.....ISLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEYNK	WIVPAEC..R
hrv-77	P.....ITLE	...GPPPPAI	NDLLXSVRTP	EVIKYCEDNK	WIIPXEC..K
hrv-78	P.....ITL.	..NGPPPPAI	LDLLKSVRTP	EVIKYCEDNK	WIVPAEN..T
ef173418-78	P.....ITL.	..NGPPPPAI	LDLLKSVRTP	EVIKYCEDNK	WIVPAEN..T
hrv-80	P.....IDM.	..NRPPPPAI	VDLLKSVRNP	DVIKYCEDNK	WVVPTEC..K
hrv-81	P.....ISMD	...KPPPPAI	TDLLRSVRTP	EVIKYCQDNK	WIVPADC..Q
hrv-81-f06	P.....ISMD	...KPPPPAI	TDLLRSVRTP	EVIKYCQDNK	WIVPADC..Q
hrv-81-f07	P.....ISMD	...KPPPPAI	TDLLRSVRTP	EVIKYCQDNK	WIVPADC..Q
hrv-82	P.....ITMD	...APPPPAI	ADLLQSVRTP	EVIKYCEENK	WIIPADC..K
dq473509-82	P.....ITM.	..NAPPPPAI	ADLLQSVRTP	EVIKYCEENK	WIIPADC..K
hrv-85	P.....ISLV	...GPPPPAI	SDLLQSVRTP	EVIRYCEVNK	WIIPAEC..K
pico-85	P.....ISLV	...GPPPPAI	SDLLQSVRTP	EVIRYCEVNK	WIIPAEC..K
dq473504-88	IDLQ	...SPPPPAI	TDLLRSVRTP	EIIKYCQDNN	WIVPAEC..S

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a10937-89	IDLQ	...SPPPPAI	ADLLRSVKTP	EIIKYCQDNN	WIVPAEC..S
hrv-89	IDLQ	...SPPPPAI	ADLLRSVKTP	EIIKYCQDNN	WIVPAEC..S
hrv-89-f08	IDLQ	...SPPPPAI	ADLLRSVKTP	EIIKYCQDNN	WIVPAEC..S
hrv-89-f09	IDLQ	...SPPPPAI	ADLLRSVKTP	EIIKYCQDNN	WIVPAEC..S
m16248-89	IDLQ	...SPPPPAI	ADLLRSVKTP	EIIKYCQDNN	WIVPAEC..S
hrv-90	P.....ITLE	...GPPPPAI	NDLLKSVRTP	EVIKYCEGNK	WIVPAEC..K
hrv-94	P.....ISM.	..NAPPPAI	ADLLQSVRTP	EVIKYCEENK	WVIPADC..K
ef173419-94	P.....ISM.	..NAPPPAI	ADLLQSVRTP	EVIKYCEENK	WVIPADC..K
hrv-95	P.....INMQ	...SPPPPAI	VDLLRSTRNE	EVINYCKNQ	WIIPADV..S
hrv-96	P.....ISME	...VPPPPAI	TDLLRSVKTP	EVIKYCENNK	WIIPADC..K
hrv-98	P.....ISLE	...GPPPPAI	SDLLQSVRTP	EVIKYCEYNK	WIIPAEC..K
hrv-100	P.....ISLD	...GPPPPAI	SDLLQSVRTP	EVIKYCENNR	WIIPAEC..K
ef186077-qpm	LGD	DST...PGFI	IDLLSASKDP	KVIEFCEKEG	WIKQSRC.SK
ef077279-nat001	LGD	DST...PGFI	VDLLSASKDP	KVIEFCEKEG	WIKQSKH.SK
ny1078	LGD	DTT...PGFI	IDLLSASKDP	KVIEFCEKEG	WIKQSKC.SK
ef582385-c024	LGD	KET...PGFI	IDLLSSSKDP	KVIQYCQDQG	YISPVHG..S
ef077280-nat045	LGD	QET...PGFI	IDLLRSSKDP	KVIQYCEEEG	LILRSST..T
ef582387-c026	LGD	DST...PGFI	VDLLSASKDP	KVIEFCEKEG	WIKQSKY.SK
ef582386-c025	LGS	DET...PGFI	VDLLSSSRDP	RVIEYCEKEG	LIVKATH..T
dq473485-03	PV.YKDLEID	ICNTPPPECI	SDLLKSVDSE	EVREYCKKKK	WIIPQIS.TN
ef173422-03	PV.YKDLEID	ICNTPPPECI	SDLLKSVDSE	EVREYCKKKK	WIIPQIS.TN
dq473490-04	PT.YKDLEID	VTTTTPPECI	VDLLKSVDNE	EVRQYCQGKK	WLIPEIP.TN
hrv-05	PV.YKDLEID	ITTTTPPECI	VDLLKSVDNE	EVRQYCQEK	WLIPEIP.TN
dq473486-06	PV.YKDLEID	VCNTPPPECI	NDLLKSVDSE	EVREYCKKKK	WIIPQIP.TN
l05355-14	PV.YKDLEID	VCNTPPPECI	NDLLKSVDSE	EIREYCKKKK	WIIPEIP.TN
k02121-14	PV.YKDLEID	VCNTPPSECI	NDLLKSVDSE	EIREYCKKKK	WIIPEIP.TN
ef173420-17	PV.YKDLEID	VHNTPPPECI	SDLLKSVDSE	ELREYCKQKN	WLIPEIP.TN
hrv-26	PV.YKDLEID	VTTTTPPECI	VDLLKSVDNE	EVRQYCQEK	WLIPEIP.TN
hrv-27	PV.YKDMTID	VYDKPPDCI	VDLLKSVDSE	EVRQYCREKK	WLIPEIP.TN
ef173421-27	PV.YKDMTID	VYDKPPDCI	VDLLKSVDSE	EVRQYCREKK	WLIPEIP.TN
dq473487-35	PV.YKDLEID	VCNTPPPECI	NDLLKSVDSE	EVRDYCKKKK	WIIPQIP.TN
hrv-35	PV.YKDLEID	VCNTPPPECI	NDLLKSVDSE	EVRDYCKKKK	WIIPQIP.TN
ef173423-37	PV.YRDLEID	VCNKSPPECI	NDLLKSVDSE	ELREYCKKKK	WIIPQVP.TN
hrv-42	PT.YKDLEID	VTTTTPPECI	VDLLKSVDNE	EVRQYCQEK	WLIPEIP.TN
dq473488-48	PT.YKDLEIE	IHNTPPPECI	SDLLKSVDSE	ELREYCKQKN	WLIPEIP.TN
hrv-52	PV.YKDLEID	VHSTPPPECI	NDLLKSVDSE	ELREYCKQKN	WLIPEIP.TN
hrv-52-f10	PV.YKDLEID	VHSTPPPECI	NDLLKSVDSE	ELREYCKQKN	WLIPEIP.TN
ef173424-52	PV.YKDLEID	VHSTPPPECI	NDLLKSVDSE	ELREYCKQKN	WLIPEIP.TN
hrv-69	PV.YKDLEID	VHTTTPPECI	NDLLKSVDSE	ELREYCKQKN	WLIPEIP.TN
dq473489-70	PV.YKDLEID	VHNTPPPECI	SDLLKSVDSE	ELREYCKQKN	WLIPEIP.TN
hrv-72	PV.YKDLEID	VNSTPPPECI	NDLLRSVDSE	EIREYCKKKK	WTIPEIP.TN
hrv-79	PV.YKDLEID	ICNTPPPECI	NDLLKSVDSE	EIREYCKKKK	WTIPQIP.TN
hrv-83	PV.YKDLEID	VCNTPPPECI	SDLLRSVDSE	EVREYCKKKK	WIIPQIP.TN
hrv-84	PV.YKDLEID	VHDKPPPECI	VDLLKSVDSE	EVRQYCKEKK	WLIPEIP.TN
hrv-86	PV.YKDLEID	VCNTPPPECI	NDLLKSVDSE	EVREYCKKKK	WTIPEIP.TD
hrv-91	PV.YKDLEID	IHSTPPPECI	SDLLKSVDSE	ELREYCKQKN	WLIPEIP.TN
hrv-92	PV.YKDLEID	VCNTPAPECI	NDLLKSVDSE	EVREYCKKKK	WIIPQIP.TN
ef173425-93	PV.YKDLTID	VNDKPPDCI	VDLLKSVDSE	EVRQYCREKK	WLIPEVP.TN
hrv-97	PV.YKDITID	VHDKPPDCI	VDLLKSVDSE	EVRQYCREKK	WLIPEIP.TN
hrv-99	PV.YKDLSID	ITTTTPPECI	VDLLKSVDNE	EVRQYCQEK	WLIPEIP.TN

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annotation				QGP..	
af499637-cva13	IERNLSRAMT	ILQALTTFAA	VAGVVYVMYR	LFAGQQGAYT	GLP.NKRPNV
af546702-cva21	LERNINRAMT	ILQAVTTFAA	VAGVVYVMYK	LFAGQQGAYT	GLP.NKKPNV
v01149-pv1m	TERNINRAMT	ILQAVTTFAA	VAGVVYVMYK	LFAGHQGAYT	GLP.NKKPNV
d00239-01	IERDLSIANS	IITIIANIIS	IAGIIFVIYK	LFCTLQGPYS	GEP.KPKTKM
pico-01	VERDLNIANS	IIAIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTKV

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hrv-01	VERDLNIANS	IIAIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTKV
x02316-02	IEKELNLANT	IITIIANVIG	MARIIVVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-07	IERDLGLANL	TISIIANVVS	IVGIIYIIYK	LFCTLQGPYS	GEP.KPKTRA
dq473503-07	IERDLGLANL	TISIIANVVS	IVGIIYIIYK	LFCTLQGPYS	GEP.KPKTRA
hrv-08	VERELNLVNL	SISILANIIS	IVGIIYIIYK	LFISLQGPYS	GLP.SKKKTI
pico-09	IERDLNLANN	IITIIANIIS	IVGIIFVIYK	LFCSLQGPYS	GEP.KPKTRV
hrv-09	IERDLNLANN	IITIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTRI
hrv-09-f01	IERDLNLANN	IITIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTRV
hrv-09-f02	IERDLNLANN	IITIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTRV
dq473498-10	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-10	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
ef173414-11	IERDLNIANT	IITIIANVIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KQKTKI
ef173415-12	IERELNYCNL	VLSMIANLVS	IIGIVYVIYK	LFCSFQGPYS	GQP.EPNTRQ
hrv-13	IERDLNLANN	IIAIIANIIS	IAGIIVVIYK	LFCSFQGPYS	GEP.KPKTKI
hrv-13-f03	IERDLNLANN	IITIIANIIS	IAGIIVVIYK	LFCSFQGPYS	GEP.KPKTKI
dq473493-15	IERDLNLANS	IITIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTKI
l24917-16	IERDLNIANS	IITIIANIIS	IAGIIVVIYK	LFCSLQGPYS	GEP.KPKTKV
hrv-18	VERDLNIANT	IITIIANIVS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-19	IERDLNIANN	IITIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTKV
hrv-20	LERDLNYANL	IISMLANVIS	IMGVIYIIYK	LFCSLQGPYS	GEP.KPTTRK
hrv-21	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKM
hrv-22	IERDLNLANN	IITIIANVIS	IAGIIFVIYK	LFCTLQGPYS	GEP.KPKTKI
dq473497-23	IEKELNLANT	IITIIANVIS	IAGIIVVIYK	LFCTLQGPYS	GEP.KIKTKI
hrv-24	IERDLNVANT	IITIMANIIS	IAGIIVVIYK	LFCTLQGPYS	GEP.IKKTKV
ef173416-24	IERDLNVANT	IITIMANIIS	IAGIIVVIYK	LFCTLQGPYS	GEP.IKKTKV
hrv-25	IERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
dq473508-28	LERDLNYANL	IISMLANVIS	IMGVIYIIYK	LFCSLQGPYS	GEP.KPITKK
hrv-29	VERDLNLANT	IISIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKV
dq473512-30	IEKGLNLANT	IITIIANVIS	IAGIIVVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-30	IEKGLNLANT	IITIIANVIS	IAGIIVVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-31	IERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-32	IERDLNLANN	IITIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTKI
hrv-33	IERDLNIANT	IITIIANVIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KQRTKI
hrv-34	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKV
dq473501-34	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKV
dq473505-36	IERDLGIANM	TIGIIANVVS	IVGVIYIIYK	LFCTLQGPYS	GEP.KPKSKA
hrv-38	IERDLNLANN	IITIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTRT
dq473495-38	IERDLNLANN	IITIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTRT
ay751783-39	IEKELNLANT	IITIIANVIN	IAGIIVVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-40	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
dq473491-41	IERDLNLANN	IITIIANIIS	IAGIIVVIYK	LFCSFQGPYS	GEP.KPKTRV
hrv-43	IERDLNLANN	IITIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTKV
dq473499-44	IERDLNLANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-45	IERELNLVNL	SISILANLIS	VIGIIVVIYK	LFVSLQGPYS	GLP.TKKKVI
dq473506-46	LERDLNYANL	IISMIANVIS	IMGVIYIIYK	LFCSLQGPYS	GEP.KPVTKK
hrv-47	VERDLNIANT	VITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
dq473496-49	IEKELNLANT	IITIIANVIS	IAGIIVVIYK	LFCTLQGPYS	GEP.KPKTKV
hrv-49-f04	IEKELNLANT	IITIIANVIS	IAGIIVVIYK	LFCTLQGPYS	GEP.KPKTKV
hrv-50	IERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTRM
hrv-51	LERDLNYANL	VISMIVANVIS	ILGVIYIIYK	LFCSLQGPYS	GEP.KPISRK
dq473507-53	LERDLNYANV	IISMIANVIS	IMGVIYIIYK	LFCSLQGPYS	GEP.KPVTKK
hrv-54	IERDLNLANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKV
hrv-54-f05	IERDLNLANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKV
dq473511-55	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTRM
hrv-56	IERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-57	IERDLNVANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTRM
hrv-58	IERDLGIANM	AISIIANVVS	IVGVIYIIYK	LFCTLQGPYS	GEP.KPKSRA
dq473500-59	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI

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hrv-60	IERDLNLANN	ITTTIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTKV
hrv-61	IERDLILANN	IITIIANIIS	IAGIIYIIYK	LFCSFQGPYS	GEP.KPKTKI
hrv-62	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.RPKTKI
hrv-63	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-64	IERDLNLANN	ITTTIANVIS	IAGIIFVIYK	LFCTLQGPYS	GEP.KPKTKV
ef173417-64	IERDLNLANN	ITTTIANVIS	IAGIIFVIYK	LFCTLQGPYS	GEP.KPKTKV
hrv-65	LERDLNYANL	VISMIANVVS	ILGVIYIIYK	LFCSLQGPYS	GEP.KPATRK
hrv-66	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTRI
hrv-67	IERDLNLANN	IIAIIANIIS	IAGIIFVIYK	LFCSLQGPYS	GEP.KPKTKI
hrv-68	LERDLNYANL	IISMLANVIS	IMGVIYIIYK	LFCSLQGPYS	GEP.KPVTKK
hrv-71	LERDLNYANL	VISMIANVIS	ILGVIYIIYK	LFCSLQGPYS	GEP.KPITRK
dq473492-73	IERDLNLANN	IITIIANIIS	IAGIIYIIYK	LFCSFQGPYS	GEP.KPKTKV
dq473494-74	IERDLNLANN	IITIIANIIS	IAGIILVIYK	LFCSLQGPYS	GEP.KPKPKI
dq473510-75	IERDLNLANN	IITIIANVVS	IAGIICVIYK	LFCSLQGPYS	GEP.KPKTKI
dq473502-76	IERDLNIANT	IITIIANVIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KQKTKI
hrv-76	IERDLNIANT	IITIIANVIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KQKTKI
hrv-77	VERDLNMANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKV
hrv-78	IERDLNVANS	VITIIANLIS	IVGVIYIIYK	LFCSLQGPYS	GEP.KPKTKT
ef173418-78	IERDLNVANS	VITIIANLIS	IVGVIYIIYK	LFCSLQGPYS	GEP.KPKTKT
hrv-80	LERDLNYANL	VISMLANVIS	IVGVIYIIYK	LFCSLQGPYS	GEP.KPVTKK
hrv-81	IERDLNIANN	IITIIANIIS	IAGIIYIIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-81-f06	IERDLSIANS	IITIIANIVS	IAGIIYIIYK	LFCTLQGPYS	GEP.KPKTKV
hrv-81-f07	IERDLSIANS	IITIIANIIS	IAGIIYIIYK	LFCTLQGPYS	GEP.KPKTKV
hrv-82	IERDLNLANN	IITIIANVIS	IAGIIFVIYK	LFYTLQGPYS	GEP.KPKPKI
dq473509-82	IERDLNLANN	IITIIANVIS	IAGIIFVIYK	LFCTLQGPYS	GEP.KPKPKI
hrv-85	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
pico-85	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
dq473504-88	IERDLGLANL	TISIIANVVS	IVGIIYIIYK	LFCTLQGPYS	GEP.KPKTRA
a10937-89	IERDLGIANM	TIGIIANVVS	IVGVIYIIYK	LFCTLQGPYS	GEP.KPKSRA
hrv-89	IERDLGIANM	TIGIIANVVS	IVGVIYIIYK	LFCTLQGPYS	GEP.KPKSRA
hrv-89-f08	IERDLGIANM	TIGIIANVVS	IVGVIYIIYK	LFCTLQGPYS	GEP.KPKSRA
hrv-89-f09	IERDLGIANM	TIGIIANVVS	IVGVIYIIYK	LFCTLQGPYS	GEP.KPKSRA
m16248-89	IERDLGIANM	TIGIIANVVS	IVGVIYIIYK	LFCTLQGPYS	GEP.KPKSRA
hrv-90	IERDLNVANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.VKKTKI
hrv-94	IERDLNLANN	IITIIANVIS	IAGIIFVIYK	LFCTLQGPYS	GEP.KPKTKT
ef173419-94	IERDLNLANN	IITIIANVIS	IAGIIFVIYK	LFCTLQGPYS	GEP.KPKTKT
hrv-95	VERELNLVNL	SISILANIIS	IVGIIYIIYK	LFISLQGPYS	GLP.SKKKTI
hrv-96	IERDLNLANN	IITIIANIIS	IAGIIYIIYK	LFCSFQGPYS	GEP.KPKTKI
hrv-98	IERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKI
hrv-100	VERDLNIANT	IITIIANIIS	ISGIIYVIYK	LFCTLQGPYS	GEP.KPKTKV
ef186077-qpm	IERDFNYAQY	CINCVGSIIL	ILGTVYALYK	LMCIAQGPYT	GLP.QPKVRK
ef077279-nat001	IERDFNYVQY	CLNCVGSIIIL	ILGTVYALYK	LMCIAQGPYT	GLP.QPKPRK
ny1078	IERDFNYAQY	CINCVGSIVL	ILGTVYALYK	LMCIAQGPYT	GLP.QPKPRK
ef582385-c024	IERDFAYVTY	ALNCLGSLVI	ILGTIYALYR	LMCIAQGPYT	GMP.TTPKKK
ef077280-nat045	LDRHIDRVQQ	AINCIGSLVV	ILGTIYALYK	LMSMTQGAYT	GHV.EPTLKR
ef582387-c026	IERDFNYAQY	CINCVGSIVL	ILGTVYALYK	LMCIAQGPYT	GLP.QPKPRK
ef582386-c025	LEKNLEYTQY	CLNCLGSLIL	IIGTIYAIYK	LLCVSQGAYS	GNA.NPIPRK
dq473485-03	IERAVNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPVHNKLLK
ef173422-03	IERAVNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPVHNKLLK
dq473490-04	VERAVNQATN	LINTILMFIT	TLGIIYMIYK	LFAQTQGPYS	GLDGKSKLLK
hrv-05	IDRAVNQATS	LINTILMFIT	TLGIVYMIYK	LFAQTQGPYS	GLDNKSKLLK
dq473486-06	IERAMNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPSHNKLLK
l05355-14	IERAMNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPPHNKLLK
k02121-14	IERAMNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPPHNKLLK
ef173420-17	IERAVNQAST	IINTILMFVS	TLGILYVIYK	LFAQTQGPYS	GNPSHTKLLK
hrv-26	IDRAVNQATS	LINTILMFIT	TLGIVYMIYK	LFAQTQGPYS	GLDSKSKLLK
hrv-27	IDRAVNQATS	LINTILMFIT	TMGIVYMIYK	MFAQTQGPYS	GLDSKAKLLK
ef173421-27	IDRAVNQATS	LINTILMFIT	TMGIVYMIYK	MFAQTQGPYS	GLDSKAKLLK

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dq473487-35	IERAVNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPTHNKLKP
hrv-35	IERAVNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPTHNKLKP
ef173423-37	IERAMNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPSHNKLKP
hrv-42	VERAVNQATN	LINTILMFIT	TLGIIYMIYK	LFAQTQGPYS	GLDNKSKLKP
dq473488-48	IERAVNQAST	IINTILMFVS	TLGILYVIYK	LFAQTQGPYS	GNPSHTKLKP
hrv-52	IERAVNQAST	IINTILMFVS	TLGILYVIYK	LFAQTQGPYS	GNPSHTKLKP
hrv-52-f10	IERAVNQAST	IINTILMFVS	TLGILYVIYK	LFAQTQGPYS	GNPSHTKLKP
ef173424-52	IERAVNQAST	IINTILMFVS	TLGILYVIYK	LFAQTQGPYS	GNPSHTKLKP
hrv-69	VERAVNQAST	IINTILMFVS	TLGILYVIYK	LFAQTQGPYS	GNPSHTKLKP
dq473489-70	IERAVNQAST	IINTILMFVS	TLGILYVIYK	LFAQTQGPYS	GNPSHVKLKP
hrv-72	IERAVNQASM	IINTILMFVS	TLGIIYVIYK	LFAQTQGPYS	GNPAHSLKKA
hrv-79	IDRAMNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPSHNKLKP
hrv-83	IERAVNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPSHGKLKA
hrv-84	VERAVNQATS	LINTILMFIT	TMGIIYMIYK	MFAQMQGPYS	GLESKTKLKA
hrv-86	IERAVNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNVAHNKLKP
hrv-91	IERAVNQAST	IINTILMFVS	TLGILYVIYK	LFAQTQGPYS	GNPSHTKLKP
hrv-92	IERAVNQASM	IINTILMFVS	TLGIVYVIYK	LFAQTQGPYS	GNPAHNKLKA
ef173425-93	IDRAVNQATS	LINTILMFIT	TMGIVYMIYK	MFAQTQGPYS	GLDNKTKLKA
hrv-97	IDRAVNQATS	LINTILMFIT	TMGIVYMIYK	MFAQTQGPYS	GLDTKTKLKA
hrv-99	VERAVNQATN	LINTILMFIT	TLGIVYMIYK	LFAQTQGPYS	GLDSKSKLKP
1601					1650
annotation	QG	PHHHHHHHHH	HHHBBBBB..	..BBBBBBBB	..BBBB..H.
af499637-cva13	PTIRTAKVQG	PGFDYAVAMA	KRNITTATTS	KGEFTMLGVY	DNVAILPHTA
af546702-cva21	PTIRVAKVQG	PGFDYAVAMA	KRNIVTATTT	KGEFTMLGVH	DNVAILPHTA
v01149-pv1m	PTIRTAKVQG	PGFDYAVAMA	KRNIVTATTS	KGEFTMLGVH	DNVAILPHTA
d00239-01	PE.RRVVAQG	PEEEFGRSIL	KNNTCVITTD	NGKFTGLGIY	DRTLIIPTHA
pico-01	PE.RRIVAQG	PEEEFGRSIL	KNNTCVITTG	NGKFTGLGIH	DRILSHPTHA
hrv-01	PE.RRVVAQG	PEEEFGRSIL	KNNTCVITTG	NGKFTGLGIH	DRILIIPTHA
x02316-02	PE.RRVVTQG	PEEEFGMSLI	KHNSCVITTE	NGKFTGLGVY	DRFVVVPTHA
hrv-07	PE.RRVVTQG	PEEEFGRSLI	KHNCCVTTD	KGKFTGLGIY	NQIMVLPTHS
dq473503-07	PE.RRVVTQG	PEEEFGRSLI	KHNCCVTTD	KGKFTGLGIY	NQIMVLPTHS
hrv-08	PE.KRIVVQG	PTTEFGLSLI	KHNTCVVETD	NGKFTGLGIF	DNVLVIPHTA
pico-09	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DRYMIVPTHA
hrv-09	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DRYMIVPTHA
hrv-09-f01	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DRYMIIPHTA
hrv-09-f02	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DRYMIIPHTA
dq473498-10	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRMLILPTHA
hrv-10	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRMLILPTHA
ef173414-11	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTQ	NGKFTGLGIY	DRTIVIPHTA
ef173415-12	PE.RRVVIQG	PVEEFGRSLI	KHNTRIVTTK	NGKFTGLGIY	DNLMVIPHTA
hrv-13	PE.RRVVAQG	PEEEFGRSII	KHNTCVTTD	NGKFTGLGIY	DKLMILPTHA
hrv-13-f03	PE.RRVVAQG	PEEEFGRSII	KHNTCVTTD	NGKFTGLGIY	DKLMVLPTHA
dq473493-15	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DRYMIVPTHS
l24917-16	PE.RRVVAQG	PEEEFGMSII	KNNTCVTTT	NGKFTGLGIY	DRILILPTHA
hrv-18	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRTLIIPTHA
hrv-19	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DRVMILPTHA
hrv-20	PE.RRVVTQG	PQEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DNIMIIPHTA
hrv-21	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTQ	NGKFTGLGIY	DRTLIIPTHA
hrv-22	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DRVMILPTHA
dq473497-23	PE.RRVVAQG	PEGEFGMSLI	KHNSCVTTTE	NGKFTGLGIY	DRTLIVPTHA
hrv-24	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRVLIIPHTA
ef173416-24	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRVLIIPHTA
hrv-25	PE.RRVVAQG	PEEEFGRSLI	KHNSCVVSTQ	NGKFTGLGIY	DRTLILPTHA
dq473508-28	PE.RRVVTQG	PQEEFGRSLI	KHNTCVTTN	NGKFTGLGIY	DNVMIIPHTA
hrv-29	PE.RRVVAQG	PEEEFGRSLI	KHNSCVVSTQ	NGKFTGLGIY	DRTLILPTHA
dq473512-30	PE.RRVVAQG	PEEEFGLSLI	KHNSCVTTTE	NGKFTGLGIH	DRIMIVPTHA
hrv-30	PE.RRVVAQG	PEEEFGLSLI	KHNSCVTTTE	NGKFTGLGIH	DRIMIVPTHA

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hrv-31	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRTLVLPTHA
hrv-32	PE.RRVVAQG	PEEEFGRSLI	KHNTCVITTD	NGKFTGLGIY	DKYMIIPTHA
hrv-33	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTQ	NGKFTGLGIY	DRTIIIPTHA
hrv-34	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTT	NGKFTGLGIY	DRTLIVPTHA
dq473501-34	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTT	NGKFTGLGIY	DRTLIVPTHA
dq473505-36	PE.RRVVTQG	PEEEFGRSLI	KHNCCIVTTD	KGKFTGLGIY	DQVMVLPTHS
hrv-38	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRTLIIPTHA
dq473495-38	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRTLIIPTHA
ay751783-39	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTQ	NGKFTGLGIY	DRVMIIPTHA
hrv-40	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTT	NGKFTGLGIY	DRTLIIPTHA
dq473491-41	PE.RRVVAQG	PEEEFGRSLI	KHDTCVTTD	NGKFTGLGIY	DKLMVLPTHA
hrv-43	PE.RRIVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DKLMILPTHA
dq473499-44	PE.RRVVAQG	PEEEFGRSLI	KHNSCVSTQ	NGKFTGLGIY	DRTLILPTHA
hrv-45	PE.KRVVVQG	PSTEFGLSLI	KHNTCIVETE	NGKFTGLGIY	DNLLVIPTHA
dq473506-46	PE.RRVVTQG	PQEEFGRSLI	KHNTCVTTT	NGKFTGLGIY	DNVMIIPTHA
hrv-47	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRTLILPTHA
dq473496-49	PE.RRVVAQG	PEEEFGMSLI	KHNSCVITTE	NGKFTGLGIY	DKFVVVPTHA
hrv-49-f04	PE.RRVVAQG	PEEEFGMSLI	KHNSCVITTD	NGKFTGLGIY	DKFVVVPTHA
hrv-50	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTT	NGKFTGLGIY	DRTLIIPTHA
hrv-51	PE.RRIVTQG	PQEEFGRSLI	KHNACIVTTE	NGKFTGLGIY	DNVMILPTHA
dq473507-53	PE.RRVVTQG	PQEEFGRSLM	KHNTCVTTN	NGKFTGLGIY	DNVMIIPTHA
hrv-54	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTT	NGKFTGLGIY	DRTLIVPTHA
hrv-54-f05	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTT	NGKFTGLGIY	DRTLIVPTHA
dq473511-55	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTT	NGKFTGLGIY	DRTLIVPTHA
hrv-56	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRVLIIPTHA
hrv-57	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTQ	NGKFTGLGIY	DRVLIIPTHA
hrv-58	PE.RRVVTQG	PEEEFGRSLI	KHNCCIVTTD	KGKFTGLGIY	DQVMVLPTHS
dq473500-59	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTQ	NGKFTGLGIY	DRTIIIPTHA
hrv-60	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTT	NGKFTGLGIY	DRTLIIPTHA
hrv-61	PE.RRVVTQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DKLMILPTHA
hrv-62	PE.RRVVAQG	PEEEFGRSLI	KHNSCVSTQ	NGKFTGLGIY	DRTLILPTHA
hrv-63	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTQ	NGKFTGLGIY	DRVLIIPTHA
hrv-64	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTT	NGKFTGLGIY	DKIMILPTHA
ef173417-64	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTT	NGKFTGLGIY	DKIMILPTHA
hrv-65	PE.RRVVTQG	PQEEFGRSLI	KHNACIVTTD	NGKFTGLGIY	DNVMILPTHA
hrv-66	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTT	NGKFTGLGIY	DRTLIIPTHA
hrv-67	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DRYLIIPTHA
hrv-68	PE.RRVVTQG	PQEEFGRSLI	KHNTCVTTT	NGKFTGLGIY	DNIMIIPTHA
hrv-71	PE.RRVVTQG	PQEEFGRSLI	KHNACIVTTE	NGKFTGLGIY	DNVMIIPTHA
dq473492-73	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DKLMILPTHA
dq473494-74	PE.RRIVAQG	PEEEFGRSLI	KHNTCVTTT	NGKFTGLGIY	DRIMIVPTHS
dq473510-75	PE.RRIVAQG	PEEEFGRSLI	KHNTCVTTT	NGKFTGLGIY	DKVMILPTHA
dq473502-76	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTQ	NGKFTGLGIY	DRTIIIPTHA
hrv-76	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTQ	NGKFTGLGIY	DRTIIIPTHA
hrv-77	PE.RRVVAQG	PEEEFGRSLI	KHNSCVTTT	NGKFTGLGIY	DRTLILPTHA
hrv-78	PE.RRVVTQG	PVEEFGRSLI	KHNTCVTTT	NGKFTGLGVH	DNVMIIPTHS
ef173418-78	PE.RRVVTQG	PVEEFGRSLI	KHNTCVTTT	NGKFTGLGVH	DNVMIIPTHS
hrv-80	PE.RRVVTQG	PQEEFGRSII	KHNTCVLTTN	NGKFTGLGIH	DNFMVIPTHA
hrv-81	PE.RRVVAQG	PEEEFGMSII	KNNTCVTTA	NGKFTGLGIY	DKILIIPTHA
hrv-81-f06	PE.RRVVAQG	PEEEFGMSII	KNNTCVTTA	NGKFTGLGIY	DKILIIPTHA
hrv-81-f07	PE.RRVVAQG	PEEEFGMSII	KNNTCVTTA	NGKFTGLGIY	DKILIIPTHA
hrv-82	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTD	NGKFTGLGIY	DKTMIIPTHA
dq473509-82	PE.RRVVAQG	PEEEFGRSLI	KHNTCVTTT	NGKFTGLGIY	DKTMIIPTHA
hrv-85	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTT	NGKFTGLGIY	DRTLIIPTHA
pico-85	PE.RRVVAQG	PEEEFGRSLI	KHNSCIVTTT	NGKFTGLGIY	DRTLIIPTHA
dq473504-88	PE.RRVVTQG	PEEEFGRSLI	KHNCCVTTD	KGKFTGLGIY	DQIMVLPTHS
a10937-89	PE.RRVVTQG	PEEEFGRSLI	KHNCCVTTD	KGKFTGLGIY	DQVMVLPTHS
hrv-89	PE.RRVVTQG	PEEEFGRSLI	KHNCCVTTD	KGKFTGLGIY	DQVMVLPTHS

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hrv-89-f08	PE.RRVVTQG	PEEEFGRSLL	KHNCCVVTDD	KGKFTGLGIY	DQVMVLPTHS
hrv-89-f09	PE.RRVVTQG	PEEEFGRSLL	KHNCCVVTDD	KGKFTGLGIY	DQVMVLPTHS
m16248-89	PE.RRVVTQG	PEEEFGRSLL	KHNCCVVTDD	KGKFTGLGIY	DQVMVLPTHS
hrv-90	PE.RRVVAQG	PEEEFGRSLI	KHNSCVVTQ	NGKFTGLGIY	DRVIIIVPTHA
hrv-94	PE.RRVVAQG	PEEEFGRSLI	KHNTCVVTDD	NGKFTGLGIY	DRVMILPTHA
ef173419-94	PE.RRVVAQG	PEEEFGRSLI	KHNTCVVTDD	NGKFTGLGIY	DRVMILPTHA
hrv-95	PE.KRIVVQG	PTTEFGLSLI	KHNTCVVETD	NGKFTGLGIF	DNVLVIPHTA
hrv-96	PE.RRVVAQG	PEEEFGRSLI	KHNTCVVTDD	NGKFTGLGIY	DRLMILPTHA
hrv-98	PE.RRVVAQG	PEEEFGRSLI	KHNSCVVTTS	NGKFTGLGIY	DRTLIIPTHA
hrv-100	PE.RRVVAQG	PEEEFGRSLI	KHNSCVVTNN	NGKFTGLGIY	DRTLIIPTHA
ef186077-qpm	PELRKAVIQG	PEHEFGMALI	KRNCHIATTD	RGDFNLLGVY	DNCAVIPHTA
ef077279-nat001	PELRKAVVQG	PEHEFGMALI	KRNCHIATTD	RGGFNLLGIY	DNCAVIPHTA
ny1078	PELRRAVAQG	PEHEFGMALL	KRNCHIATTD	RGDFNLLGIH	DNCAVLPTHA
ef582385-c024	PELRRATLQG	PEHEFLNALI	RRNCHIIITD	KGEFNLLGIY	SNCAVVPHTA
ef077280-nat045	SELRKAVTQG	PEHEFMYALL	KRNCHIAETR	KGEFNLLGIH	SNCAVIPHTA
ef582387-c026	PELRKAVIQG	PEHEFGMALI	KRNCHIATTD	RGDFNLLGVY	DNCAVIPHTA
ef582386-c025	PELRKAVKQG	PEHEFVHSLI	RRNCHVATTS	RGDFNLLGIH	DNCAVLPTHA
dq473485-03	PTLKPVVVQG	PNTEFALSLL	RKNILTITTE	KGEFTSLGIH	DRICVLPTHA
ef173422-03	PTLKPVVVQG	PNTEFALSLL	RKNILTITTE	KGEFTSLGIH	DRICVLPTHA
dq473490-04	PTLRAVVTQG	PNTEFALSLL	RKNIVTVTTS	KGEFTGLGIY	DRILVIPHTA
hrv-05	PTLRAVVTQG	PNTEFALSLL	RKNIVTVTDD	KGEFTGLGIY	ERVLVIPHTA
dq473486-06	PSLRPVVVQG	PNTEFALSLL	RKNIVTITTE	KGEFTGLGIY	DRVCVIPHTA
l05355-14	PTLRPVVVQG	PNTEFALSLL	RKNIMTITTS	KGEFTGLGIH	DRVCVIPHTA
k02121-14	PTLRPVVVQG	PNTEFALSLL	RKNIMTITTS	KGEFTGLGIH	DRVCVIPHTA
ef173420-17	PTLRQVVVQG	PNTEFALSLL	RKNIVTITTT	KGEFTALGVH	DRVCVVPHTS
hrv-26	PTLRAVVTQG	PNTEFALSLL	RKNIVTVTDD	KGEFTGLGVY	DRLLVIPHTA
hrv-27	PVLRAVVTQG	PNTEFALSLL	RKNIVTITTA	KGEFTALGIY	DRICVIPHTS
ef173421-27	PVLRAVVTQG	PNTEFALSLL	RKNIVTITTA	KGEFTALGIY	DRICVIPHTS
dq473487-35	PTLRPVVAQG	PNTEFALSLL	RKNIVTITTE	KGEFTGLGIY	DQICVIPHTA
hrv-35	PTLRPVVAQG	PNTEFALSLL	RKNIVTITTE	KGEFTGLGIY	DQICVIPHTA
ef173423-37	PSLRPVMVQG	PNTEFALSLL	RKNIVTITTE	KGEFTGLGIY	DRVCVIPHTA
hrv-42	PTLRAVVTQG	PNTEFALSLL	RKNIVTVTDD	KGEFTGLGIH	ERILVIPHTA
dq473488-48	PTLRQVVVQG	PNTEFALSLL	RKNIVTITTS	KGEFTALGIH	DRVCVVPHTS
hrv-52	PTLRQVVVQG	PNTEFAMSLL	RKNIVTVTTT	KGEFTALGIH	DRVCVVPHTS
hrv-52-f10	PTLRQVVVQG	PNTEFAMSLL	RKNIVTVTTT	KGEFTALGIH	DRVCVVPHTS
ef173424-52	PTLRQVVVQG	PNTEFAMSLL	RKNIVTVTTT	KGEFTALGIH	DRVCVVPHTS
hrv-69	PTLRQVVVQG	PNTEFAMSLL	RKNIVTITTS	KGEFTALGVH	DRVCVVPHTS
dq473489-70	PTLRQVVVQG	PNTEFALSLL	RKNIVTITTT	KGEFTALGIH	DRVCVVPHTS
hrv-72	PTLRPVIVQG	PNTEFALSLL	RKNIVTITDD	KGEFTGLGIY	DHICVIPHTA
hrv-79	PTLRPVIVQG	PNTEFALSLL	RKNVVTITTE	KGEFTGLGVY	DHVCVIPHTA
hrv-83	PTLRPVIVQG	PNTEFALSLL	RKNIVTITTE	KGEFTGLGVY	DQICVLPTHA
hrv-84	PTLRAVVTQG	PNTEFALSLL	RKNIITVTTS	KGEFTSLGIY	DRICVIPHTS
hrv-86	PTLRPVVVQG	PNTEFALSLL	RKNIVTITTE	KGEFTGLGIY	DRVCVVPHTS
hrv-91	PTLRQVVVQG	PNTEFALSLL	RKNIITITTA	KGEFTALGIY	DRVCVVPHTS
hrv-92	PTLRPIVVQG	PNTEFALSLL	RKNIVTITTE	KGEFTGLGVY	DHVCVVPHTA
ef173425-93	PVLRAVVTQG	PNTEFALSLL	RKNIITITTS	KGEFTALGIY	DRICVIPHTS
hrv-97	PVLRAVVTQG	PNTEFALSLL	RKNIVTITTA	KGEFTALGIY	DRICVIPHTS
hrv-99	PTIRAVMTQG	PNTEFALSLL	RKNIVTVTTN	KGEFTGLGIY	DKILVVPHTA
1651					1700
annotation	...BBBB...	BBBBBBBBBB	BBB...BBBE	BBBBBBB...	...HHHHHH.
af499637-cva13	APGETVMIDG	KEVEIIDAKA	LEDQAGTNLE	ITIIITLKRNE	KFRDIRPHIP
af546702-cva21	APGETIIIDG	KEVEILDARA	LEDQAGTNLE	ITIIITLKRNE	KFRDIRSHIP
v01149-pv1m	SPGESIVIDG	KEVEILDARA	LEDQAGTNLE	ITIIITLKRNE	KFRDIRPHIP
d00239-01	DPGREVQVNG	IHTKVLDSDY	LYNRDGVKLE	ITVIQLDRNE	KFRDIRKYIP
pico-01	DPGREVQVMG	VHTKVLDSDY	LYNRDGVKLE	ITVIQLDRNE	KFRDIRKYIP
hrv-01	DPGREVQVNG	VHTKVLDSDY	LYNRDGVKLE	ITVIQLDRNE	KFRDIRKYIP
x02316-02	DPGKEIQVDG	ITTKVIDSDY	LYNKNGIKLE	ITVLKLDLDRNE	KFRDIRRYIP

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hrv-07	DPGSEILIDG	VKVKILDSYD	LHNHEGIKLE	ITVIKLDNRNE	KFRDIRKYLP
dq473503-07	DPGSEILIDG	VKVKILDSYD	LHNHEGIKLE	ITVIKLDNRNE	KFRDIRKYLP
hrv-08	DPGKSVNIDG	VEVKVDSYD	LFNKEGVKLE	ITVILLSRNE	KFRDIRKYIP
pico-09	DPGKTVQING	IVTNVVDSYD	LHNKDGINLE	ITVIKLDNRNE	KFRDIRKYIP
hrv-09	DPGKTVQING	IVTNVVDSYD	LHNKDGIKLE	ITVIKLDNRNE	KFRDIRKYIP
hrv-09-f01	DPGKTVQING	IVTNVVDSYD	LHNKDGIKLE	ITVIKLDNRNE	KFRDIRKYIP
hrv-09-f02	DPGKTVQING	IVTNVVDSYD	LHNKDGIKLE	ITVIKLDNRNE	KFRDIRKYIP
dq473498-10	DPGREVQIDG	ITTKVEDSFD	LYNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-10	DPGREVQIDG	ITTKVEDSFD	LYNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
ef173414-11	DPGEEVQIDG	ITTKVEDSYD	LYNKDGIKLE	ITVLKLQRNE	KFRDIRKYIP
ef173415-12	DPEKVVQIDG	INVNVTSYD	LCNKQGVKLE	ITVIKLDQNE	KFRDIRKFIP
hrv-13	DPGKEVCING	IATKVSDSYD	LYNKQGVKLE	ISAIVLDRNE	KFRDIRKYIP
hrv-13-f03	DPGKEVCING	ITTKVSDSYD	LYNKQGVKLE	ITAIVLDRNE	KFRDIRKYIP
dq473493-15	DPGKVVQVDG	INTNVLDAYD	LHNKDGIKLE	ITVIKLDNRNE	KFRDIRKYIP
l24917-16	DPGSEIQVNG	IHTKVLSYD	LFNKEGVKLE	ITVLKLDNRNE	KFRDIRKYIP
hrv-18	DPGKEVQIDG	ITTEVQDSYD	LYNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-19	DPGKTLQING	INTSVTDSYD	LYNKDGIKLE	ITVVKLDNRNE	KFRDIRKYIP
hrv-20	DAGKEVEIDG	IKTQVDDAYD	LHNSQGIKLE	ITVLKLHRNE	KFRDIRKYIP
hrv-21	DPGKEVQIDG	IATKVEDSYD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-22	DPGKIIQVNG	INTTVCDSDYD	LYNKNGIKLE	ITVVKLDNRNE	KFRDIRKYIP
dq473497-23	DPGKEIQIDG	ITTKVIDSYH	LYNKDGIKLE	ITVLKLDNRNE	KFRDIRKYIP
hrv-24	DPGREVQIDG	INTTVEDSYD	LYNKDGIKLE	ITVLKLRNE	KFKDIRKYLP
ef173416-24	DPGREVQIDG	INTTVEDSYD	LYNKDGIKLE	ITVLKLRNE	KFKDIRKYLP
hrv-25	DPGNEIQIDG	IATKVEDSYD	LYNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
dq473508-28	DAGREVEIDG	IKTQIDDAYD	LHNSQGVKLE	ITVLKLHRNE	KFRDIRKYIP
hrv-29	DPGSEVQIDG	ITTKVEDSFD	LYNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
dq473512-30	DPGKEIQIDG	ITTKVTDSDYD	LYNKDGIKLE	ITVLKLDNRNE	KFRDIRKYIP
hrv-30	DPGKEIQIDG	ITTKVTDSDYD	LYNKDGIKLE	ITVLKLDNRNE	KFRDIRKYIP
hrv-31	DPGNEIQIDG	ITTKVEDSYD	LFNKDGIKLE	ITVLKLRNE	KFKDIRKYIP
hrv-32	DPGKTVQING	IITNVIDSYD	LHNKDGIVKLE	ITVIKLDNRNE	KFRDIRKYIP
hrv-33	DPGKEVQIDG	ISTKVEDSYD	LYNKDGIKLE	ITVLKLQRNE	KFRDIRKYIP
hrv-34	DPGKEVQIDG	ITTKVEDSFD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
dq473501-34	DPGKEVQIDG	ITTKVEDSFD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
dq473505-36	DPGSEILVDG	VKVKISDSYD	LHNHEGVKLE	ITVVKLVRNE	KFKDIRKYLP
hrv-38	DPGNEVQIDG	ITTKVEDSYD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
dq473495-38	DPGNEVQIDG	ITTKVEDSYD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
ay751783-39	DPDKEVQIDG	ITTKVLSYD	LYNKDGVKLE	ITVLKLDNRNE	KFRDIRKYIP
hrv-40	DPGKEVQIDG	ITTEVQDSYD	LYNKDGIKLE	ITVLKLRNE	KFKDIRKYIP
dq473491-41	DPSSMIYVNG	IATKVKDSYD	LYNKQGIKLE	ITVVILDRNE	KFRDIRKYIP
hrv-43	DPGKEIYING	IKVKVSDSYD	LYNKDGVKLE	ITVVKLDNRNE	KFRDIRRYIP
dq473499-44	DPGSEVQIDG	IATKVEDSFD	LYNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-45	DPSRTVKVDG	VETEVLDSYD	LYNKEGVKLE	ITVLILSRNE	KFRDIRKYIP
dq473506-46	DAGQEVEIDG	IKTKVSDAYD	LHNMHGVKLE	ITVLKLSRNE	KFRDIRKYIP
hrv-47	DPGGEIQIDG	ITTKVEDSYD	LFNKDGIKLE	ITVLKLRNE	KFKDIRKYIP
dq473496-49	DPGKEIQVDG	ITTKVADS	LYNKDGIKLE	ITVLKLDNRNE	KFRDIRKYIP
hrv-49-f04	DPGKEIQVDG	ITTKVADSFD	LYNKDGIKLE	ITVLKLDNRNE	KFRDIRKYIP
hrv-50	DPGKEVQIDG	ITTKVEDSYD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-51	DVGRTVDIDG	IQTKVADAYD	LHNSQGVKLE	ITVVKLNRNE	KFRDIRKYIP
dq473507-53	DAGQEVEVDG	IKTKVSDAYD	LYNTQGVKLE	ITVLKLNDRNE	KFRDIRKYIP
hrv-54	DPGKEVQIDG	ITTEVQDSYD	LYNRDGIKLE	ITVLKLRNE	KFKDIRKYIP
hrv-54-f05	DPGKEVQIDG	ITTEVQDSYD	LYNKDGIKLE	ITVLKLRNE	KFKDIRKYIP
dq473511-55	DPGKEIQVDG	ITTKVEDSYD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-56	DPGHEVQIDG	ITTKVEESFD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-57	DPGKEVQIDG	ITTGVEDSYD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-58	DPGSEILVDG	VKVKISDSYD	LHNHEGIKLE	ITVVKLVRNE	KFKDIRKYLP
dq473500-59	DPGGEVQIDG	IVTKVEDSYD	LFNKDGIKLE	ITVLKLRNE	KFRDIRKYIP
hrv-60	DPGKEVQIDG	ITTTVQDSYD	LYNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-61	DPGKEIYING	IATRVSDSYD	MYNKQGIKLE	ITAVLLDRNE	KFRDIRRYIP

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hrv-62	DPGNEIQIDG	ITTKVEGSYD	LYNKEGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-63	DPGHEVQIDG	ITTKVEDSFD	LFNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-64	DPGKTIQING	INTNVLDSYD	LYNKNGVKLE	ITVVKLDRNE	KFRDIRKYIP
ef173417-64	DPGKTIQING	INTNVLDSYD	LYNKNGVKLE	ITVVKLDRNE	KFRDIRKYIP
hrv-65	DAGKTIDING	IQTRVADAYD	LYNSQGVKLE	ITVVKLDRNE	KFRDIRKYIP
hrv-66	DPGKEVQIDG	ITTKVEDSYD	LYNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-67	DPGKTVQING	IITNVTDSDYD	LHNKEGIKLE	ITVIKLRNE	KFRDIRKYIP
hrv-68	DAGKEVEIDG	IKTQIDDAYD	LYNSQGIKLE	ITVLKLHRNE	KFRDIRKYIP
hrv-71	EVGKSVEIDG	IQVKVSDSYD	LYNSHGVKLE	ITVVKLNRNE	KFRDIRKYIP
dq473492-73	DPGKEVYING	IATKVSDSYD	LYNKQGVKLE	ITAIVLDRNE	KFRDIRKYIP
dq473494-74	DPGTTIQIDG	INTKVLDSYD	LHNKDGKLE	ITVIKLRNE	KFRDIRKYIP
dq473510-75	DPGKQVQING	INVNVSDSYD	LYNKDGVKLE	ITVIKLRNE	KFRDIRKYIP
dq473502-76	DPGKEVQIDG	ISTKVEDSYD	LYNKDGVKLE	ITVLKLQRNE	KFRDIRKYIP
hrv-76	DPGKEVQIDG	ISTKVEDSYD	LYNKDGVKLE	ITVLKLQRNE	KFRDIRKYIP
hrv-77	DPGREIQVDG	ITTEVQDSYD	LYNKDGVKLE	ITVLKLRNE	KFKDIRKYIP
hrv-78	EPGSQIEIDG	VKTNNVDSYD	LYNKDGVKLE	ITVVKLNRNE	KFRDIRKYLP
ef173418-78	EPGSQIEIDG	VKTNNVDSYD	LYNKDGVKLE	ITVVKLNRNE	KFRDIRKYLP
hrv-80	DVGGEIEVDG	IKTKVLDSYD	LYNKQGVKLE	ITVIKLRNE	KFRDIRKYIP
hrv-81	DPGSEIQVNG	IHTKILDSYD	LYNKEGVKLE	ITVLKLRNE	KFRDIRKYIP
hrv-81-f06	DPGSEIQVNG	IQTKILDSYD	LFNKEGVKLE	ITVLKLRNE	KFRDIRKYIP
hrv-81-f07	DPGSEIQVNG	IQTKILDSYD	LFNKEGVKLE	ITVLKLRNE	KFRDIRKYIP
hrv-82	DPGNTIQIDG	INVKISDSYD	LYNKNGVKLE	ITVIKLRNE	KFRDIRKYIP
dq473509-82	DPGKTIQIDG	INVKISDSYD	LYNKNGVKLE	ITVVKLDRNE	KFRDIRKYIP
hrv-85	DPGKEVQIDG	ITTQVQDSYD	LYNKDGIKLE	ITVLKLRNE	KFKDIRKYIP
pico-85	DPGKEVQIDG	ITTQVQDSYD	LYNKDGIKLE	ITVLKLRNE	KFKDIRKYIP
dq473504-88	DPGSEVMIDG	VKIKVLDSYD	LHNHEGVKLE	ITVIKLARNE	KFKDIRKYLP
a10937-89	DPGSEILVDG	VKVKVSDSYD	LHNHEGVKLE	ITVVKLIRNE	KFKDIRKYLP
hrv-89	DPGSEILVDG	VKVKVSDSYD	LHNHEGVKLE	ITVVKLIRNE	KFKDIRKYLP
hrv-89-f08	DPGSEILIDG	VKVKVSDSYD	LHNHEGVKLE	ITVVKLARNE	KFKDIRKYLP
hrv-89-f09	DPGSEILIDG	VKVKVSDSYD	LHNHEGVKLE	ITVVKLARNE	KFKDIRKYLP
m16248-89	DPGSEILVDG	VKVKVSDSYD	LHNHEGVKLE	ITVVKLIRNE	KFKDIRKYLP
hrv-90	DPGKEIQIDG	ISTKVEDSYD	LYNKDGIKLE	ITVLKLRNE	KFKDIRKYIP
hrv-94	DPGKTIQING	INTNVTDSDYD	LYNKNGIKLE	ITVVKLDRNE	KFRDIRKYIP
ef173419-94	DPGKTIQING	INTNVTDSDYD	LYNKNGIKLE	ITVVKLDRNE	KFRDIRKYIP
hrv-95	DPGKSVNIDG	VEVKVSDSYD	LFNKEGVKLE	ITVILLSRNE	KFRDIRKYIP
hrv-96	DPGKEISING	IVTKVSDSYD	MYNKQGIKLE	ITAVVLDRNE	KFRDIRKYIP
hrv-98	DPGKEVQIDG	ITTEVQDSYD	LYNKDGIKLE	ITVLKLRNE	KFKDIRKYIP
hrv-100	DPGREVQIDG	IATKVSDSYD	LYNKDGIKLE	ITVLKLRNE	KFKDIRKYIP
ef186077-qpm	QPEDTILIDG	VETKILKQTI	ITDENDVDTE	VTILWLDRNE	KFRDIRRFIP
ef077279-nat001	QVEDTILIDG	VETKVLKQTI	ITDENDVDTE	ITILWLDRNE	KFRDIRRFIP
ny1078	QADGTILIDG	VETKILKQTI	ITDESVDVTE	ITILWLDRNE	KFRDIRRFIP
ef582385-c024	EPGDVVDIDG	RLVRVLKQVQ	LTDMDNDVTE	VTVLWLDQNE	KFRDIRRFIP
ef077280-nat045	ECDKEILIDG	IPTKILKQOI	ITDASDVTE	VTLLWLDRNE	KFRDIRRFIP
ef582387-c026	QPEDTILIDG	VETKILKQTI	ITDENDVDTE	ITILWLDRNE	KFRDIRRFIP
ef582386-c025	ECGDTILIDN	IQTQVIKQOI	ITDSNDVDTE	ITIVWLDRNE	KFRDIRRFIP
dq473485-03	QPGDNVLVNG	QKIQIKDKYK	LVDPDNTNLE	LTIIELDRNE	KFRDIRGFI.
ef173422-03	QPGDNVLVNG	QKIQIKDKYK	LVDPDNTNLE	LTIIELDRNE	KFRDIRGFI.
dq473490-04	QPSDQVLING	FSTNVRDKWK	LVDPDNLNLE	ITVIELDRNE	KFRDIRMFI.
hrv-05	QPSDQVLING	FATKIKDKWK	LVDPDNLNLE	ITVIELDRNE	KFRDIRMFI.
dq473486-06	QPDNKVLVNG	QAVQIKDKYK	LVDPDNINLE	LTVLMLDRNE	KFRDIRSFI.
l05355-14	QPGDDVLVNG	QKIRVKDKYK	LVDPENINLE	LTVLTLDRNE	KFRDIRGFI.
k02121-14	QPGDDVLVNG	QKIRVKDKYK	LVDPENINLE	LTVLTLDRNE	KFRDIRGFI.
ef173420-17	QPDDEVLVNG	QPVKLKDKYK	LLDPENTNLE	LTILILDRNE	KFRDIRAFI.
hrv-26	QPGEQVLING	FSTKLKDKWK	LVDPDINLE	ITVLELDRNE	KFRDIRMFI.
hrv-27	QPENEVLLNG	YNVKKIKDKWR	LVDPDNLNLE	ITVLELDRNE	KFRDIRMFI.
ef173421-27	QPENEVLLNG	YNVKKIKDKWR	LVDPDNLNLE	ITVLELDRNE	KFRDIRMFI.
dq473487-35	QPGDSVLVNG	QKIQVRDKYK	LVDPENVNLE	LTILILDRNE	KFRDIRNFI.
hrv-35	QPGDSVLVNG	QKIQVRDKYK	LVDPENVNLE	LTILILDRNE	KFRDIRNFI.

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ef173423-37	QPGNSVLLNG	QKIQIKDKYK	LMDPDNINLE	LTVLILDRNE	KFRDIRNFI.
hrv-42	QPSEKVLING	FATNVKDKWK	LVDPDNLNLE	ITVLELDRNE	KFRDIRMFI.
dq473488-48	QPSDEVLING	QTVKCLKDKYK	LLDPENTNLE	LTILVLDRNE	KFRDIRAFI.
hrv-52	QPDDEVLVNG	QPVKCLKDKYK	LMDPENTNLE	LTIIIVLDRNE	KFRDIRAFI.
hrv-52-f10	QPDDEVLVNG	QPVKCLKDKYK	LMDPENTNLE	LTIIIVLDRNE	KFRDIRAFI.
ef173424-52	QPDDEVLVNG	QPVKCLKDKYK	LMDPENTNLE	LTIIIVLDRNE	KFRDIRAFI.
hrv-69	QPGDEVLVNG	QPIKCLKDKYK	LLDPENTNLE	LTIVVLDRNE	KFRDIRAFI.
dq473489-70	QPDDEVLVNG	QPVKCLKDKYK	LLDPENTNLE	LTILVLDRNE	KFRDIRAFI.
hrv-72	QPNDSVLING	QKVQIKDKFK	LVDPDNINLE	LTILDNLRNE	KFRDIRAFI.
hrv-79	QPSDSVLVNG	QKIQIKDKYK	LVDPENVNLE	LTILVLDRNE	KFRDIRGFI.
hrv-83	QPTDNVLLNG	QKVQIKDKYK	LVDPENVNLE	LTIIITLDRNE	KFRDIRGFI.
hrv-84	QPEDEVLVNG	FKTRVSDKWK	LVDPDNMNLE	ITVLQLDRNE	KFRDIRSFI.
hrv-86	HPGQEVLLNG	QKIKVSDKYR	LIDSDSINLE	LTVLTLDNRNE	KFRDIRPFI.
hrv-91	QPDDEVLVNG	QPVKCLKDKYK	LLDSENTNLE	LTILVLDRNE	KFRDIRAFI.
hrv-92	QPSSEVLLNG	QKVHLKDKYK	LVDPENVNLE	LTIIIVLDRNE	KFRDIRGFI.
ef173425-93	QPENEVLLNG	YNTKIKDKWR	LVDPDNLNLE	ITVLELDRNE	KFRDIRMFI.
hrv-97	QPENEVLLNG	YNIKIKDKWK	LIDPDNLNLE	ITVLELDRNE	KFRDIRMFI.
hrv-99	QPTEEVLING	FTVKIKDKWK	LVDPDNLNLE	ITVLELDRNE	KFRDIRMFI.

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annotation	BBB	BB.....BB	BBBBBBBBBB	BBBBBB...B	BBBBBBBBBB..
af499637-cva13	TQITETNDGV	LIVNTSKYPN	MYVPVGAVTE	QGYLNLGGRQ	TARTLMYNFP
af546702-cva21	TQITETNDGV	LIVNTSKYPN	MYVPVGAVTE	QGYLNLGGRQ	TARTLMYNFP
v01149-pv1m	TQITETNDGV	LIVNTSKYPN	MYVPVGAVTE	QGYLNLGGRQ	TARTLMYNFP
d00239-01	ETEDDYPECN	LALSANQVEP	TIKVGDVVS	YGNILLSGNQ	TARMLKYNYP
pico-01	ETEDDYPECN	LALSANQDEP	TIKVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-01	ETEDDYPECN	LALSANQDEP	TIKVGDVVS	YGNILLSGNQ	TARMLKYNYP
x02316-02	NNEDDYPNCN	LALLANQPEP	TIINVGDVVS	YGNILLSGNQ	TARMLKYSYP
hrv-07	TRDDDYLGCN	LALLANQDEP	TILNVGDAIS	YGNILLSGTN	TARMIKYHYP
dq473503-07	TRDDDYLGCN	LALLANQDEP	TILNVGDAIS	YGNILLSGTN	TARMIKYHYP
hrv-08	NSEDDYTNCN	LALVANQVEP	QILEVGDVVS	YGNILLSGNN	TARMLKYDYP
pico-09	EREDDYPECN	LALVANQIEP	TIISVGDVIS	YGNILLSGNQ	TARMLKYHYP
hrv-09	EREDDYPECN	LALVANQVEP	TIISVGDVIS	YGNILLSGNQ	TARMLKYHYP
hrv-09-f01	EREDDYPECN	LALVANQDEP	TIISVGDVIS	YGNILLSGNQ	TARMLKYHYP
hrv-09-f02	EREDDYPECN	LALVANQDEP	TIISVGDVIS	YGNILLSGNQ	TARMLKYHYP
dq473498-10	ENEDDYPDCN	LALSANQPET	TIINVGDVVS	YGNILLSGTQ	TARMLKYNYP
hrv-10	ENEDDYPDCN	LALSANQPET	TIINVGDVVS	YGNILLSGTQ	TARMLKYNYP
ef173414-11	EREDDYPECN	LALSANQPET	TIINVGDVVS	YGNILLSGNQ	TARMLKYNYP
ef173415-12	DREDDYPECH	LALTANQEQP	TILEVGDAVS	YGNILLSGNE	TARMIKYNYP
hrv-13	EREDDYPDCN	LALVANQPEP	TIINVGDVIS	YGNILLSGNQ	TARMLKYNYP
hrv-13-f03	EREDDYPDCN	LALVANQPEP	TIINVGDVIS	YGNILLSGNQ	TARMLKYNYP
dq473493-15	ESEDDYPDCN	LALVANQVEP	TIISVGDVIS	YGNILLSGSQ	TARMLKYNYP
l24917-16	ESEDDYPECN	LALVANQTEP	TIKVGDVVS	YGNILLSGTQ	TARMLKYNYP
hrv-18	EDEDDYPDCN	LALSANQPET	TIINVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-19	EKEDDYPDCN	LALVANQPEP	TILSVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-20	ETEDDYPECH	LALVANQQEP	TILEVGDCCS	YGNILLSGNQ	TARMIKYNYP
hrv-21	ENEDDYPDCN	LALSANQPET	TIINVGDVIS	YGNILLSGTQ	TARMLKYNYP
hrv-22	EREDDYPDCN	LALVANQPEP	TIINVGDVVS	YGNILLSGDQ	TARMLKYNYP
dq473497-23	NNEDDYPDCN	LALLANQPEP	TIINVGDVVS	YGNILLSGSQ	TARMLKYNYP
hrv-24	ENEDDYPDCS	LALSANQPET	TIINVGDVIS	YGNILLSGNQ	TARMLKYNYP
ef173416-24	ENEDDYPDCS	LALSANQPET	TIINVGDVIS	YGNILLSGNQ	TARMLKYNYP
hrv-25	ENEDDYPDCN	LALSANQPET	TIINVGDVVS	YGNILLSGNQ	TARMLKYNYP
dq473508-28	ESEDDYPECH	LALVANQQEP	TILEVGDCCS	YGNILLSGNQ	TARMIKYNYP
hrv-29	ENEDDYPDCN	LALSANQPET	TIINVGDVVS	YGNILLSGNQ	TARMLKYNYP
dq473512-30	SNEDDYPDCN	LALLANQPEP	TIINVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-30	SNEDDYPDCN	LALLANQPEP	TIINVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-31	ENEDDYPDCN	LALSANQPET	TIINVGDVVS	YGNILLSGNX	TARMLKYNYP
hrv-32	EREDDYPDCN	LALVANQPEP	TIINVGDVIS	YGNILLSGNQ	TARMLKYHYP

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hrv-33	EKEDDYPECN	LALSANQPET	TIISVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-34	EHEDDYPDCN	LALSANQPET	TIIKVGDVVS	YGNILLSGNQ	TARMLKYNYP
dq473501-34	EHEDDYPDCN	LALSANQPET	TIIKVGDVVS	YGNILLSGNQ	TARMLKYNYP
dq473505-36	SREDDYPACN	LALLANQDEP	TIINVGDAES	YGNILLSGTN	TARMIKYHYP
hrv-38	ENEDDYPDCN	LALSANQPET	TIINVGDDVIS	YGNILLSGNQ	TARMLKYNYP
dq473495-38	ENEDDYPDCN	LALSANQPET	TIINVGDDVIS	YGNILLSGNQ	TARMLKYNYP
ay751783-39	ENEDDYPECN	LALSANQPET	TIILNVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-40	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGSQ	TARMLKYNYP
dq473491-41	EKEDDYPECN	LALVANQPEP	TIINVGDDVIS	YGNILLSGNQ	TARMLKYHYP
hrv-43	EKEDDYPECN	LALVANQPEP	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
dq473499-44	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-45	NSEDDYVNCN	LALVANQDMP	QILEVGDDVVS	YGNILLSGNN	TARMLKYEYP
dq473506-46	ESEDDYPECC	LALVANQTEP	TILEVGDDCCS	YGNILLSGNQ	TARMIKYNYP
hrv-47	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
dq473496-49	NNEDDYPDCN	LALLANQPEP	TIINVGDDVIS	YGNILLSGNQ	TARMLKYSYP
hrv-49-f04	NNEDDYPDCN	LALLANQPEP	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-50	ENEDDYPDCN	LALSANQPET	TIIRVGDDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-51	DSEDDYPDCC	LALLANQPEP	TIIEIGDSCS	YGNILLSGNQ	TARMIKYNYP
dq473507-53	ESEDDYPECC	LALVANQVEP	TILEVGDDCCS	YGNILLSGNQ	TARMIKYNYP
hrv-54	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-54-f05	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
dq473511-55	ESESDYPDCN	LALSANQPET	TIILNVGDVIS	YGNILLSGTQ	TARMLKYNYP
hrv-56	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGTQ	TARMLKYNYP
hrv-57	EREDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-58	SREDDYPACN	LALLANQDEP	TIINVGDAES	YGNILLSGTN	TARMIKYHYP
dq473500-59	ESEDDYPDCS	LALSANQPET	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-60	ENEDDYPDCN	LALSANQPET	TIISVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-61	EREDDYPECN	LALVANQPEP	TIISVGDVIS	YGNILLSGNQ	TARMLKYNYP
hrv-62	ESEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-63	ESEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGTQ	TARMLKYNYP
hrv-64	EREDDYPDCN	LALVANQPEP	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
ef173417-64	EREDDYPDCN	LALVANQPEP	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-65	DTEDDYPECC	LALLANQPEP	TIIEVGDDSCS	YGNILLSGNQ	TARMIKYNYP
hrv-66	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGTQ	TARMLKYSYP
hrv-67	EREDDYPDCN	LALVANQVEP	TIISVGDVVS	YGNILLSGNQ	TARMLKYHYP
hrv-68	ESEDDYPECH	LALVANQQEP	TILEVGDDCCS	YGNILLSGNQ	TARMIKYNYP
hrv-71	DSEDDYSDCC	LALLANQPEP	TIIEVGDDSCS	YGNILLSGTQ	TARMIKYNYP
dq473492-73	EREDDYPDCN	LALVANQSEP	TIINVGDDVIS	YGNILLSGNQ	TARMLKYNYP
dq473494-74	EREDDYPECN	LALVANQIEP	TIISVGDVVS	YGNILLSGNQ	TARMLKYNYP
dq473510-75	EKEDDYPECN	LALVANQPEP	TIIGVGDDVVS	YGNILLSGNQ	TARMLKYNYP
dq473502-76	EKEDDYPECN	LALSANQPET	TIISVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-76	EKEDDYPECN	LALSANQPET	TIISVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-77	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-78	EHEDDYMECN	LALVANQEQP	TIIEVGDDVCS	YGNILLSGTQ	TARMLKYNYP
ef173418-78	EHEDDYMECN	LALVANQEQP	TIIEVGDDVCS	YGNILLSGTQ	TARMLKYNYP
hrv-80	EVEDDYVDCC	LALTANQSEP	TILQVGDSVS	YGNILLSGNQ	TARMIKYNYP
hrv-81	ETEDDYPECN	LALVANQPEP	TIIKVGDDVIS	YGNILLSGTQ	TARMLKYNYP
hrv-81-f06	ETEDDYPECN	LALVANQPEP	TIIKVGDDVIS	YGNILLSGTQ	TARMLKYNYP
hrv-81-f07	ETEDDYPECN	LALVANQPEP	TIIKVGDDVVS	YGNILLSGTQ	TARMLKYNYP
hrv-82	EKEDDYPDCN	LALVANQPEP	TIILNVGDVVS	YGNILLSGNQ	TARMLKYNYP
dq473509-82	EKEDDYPECN	LALVANQPEP	TIILNVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-85	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNILLSGNQ	TARMLKYNYP
pico-85	ENEDDYPDCN	LALSANQPET	TIINVGDDVVS	YGNIIILSGNQ	TARMLKYNYP
dq473504-88	TREDDYPACN	LALLANQDEP	TIILNVGDAIS	YGNILLSGTN	TARMIKYHYP
a10937-89	SREDDYPACN	LALLANQDEP	TIISVGDAVS	YGNILLSGTN	TARMIKYHYP
hrv-89	SREDDYPACN	LALLANQDEP	TIISVGDAVS	YGNILLSGTN	TARMIKYHYP
hrv-89-f08	SREDDYPACN	LALLANQDEP	TIISVGDAVS	YGNILLSGTN	TARMIKYHYP
hrv-89-f09	SREDDYPACN	LALLANQDEP	TIISVGDAES	YGNILLSGTN	TARMIKYHYP

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m16248-89	SREDDYPACN	LALLANQDEP	TIISVGDAVS	YGNILLSGTN	TARMIKYHYP
hrv-90	ESEDDYPDCN	LALSANQPET	TIINVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-94	EREDDYPDCN	LALVANQPEP	TIINVGDVVS	YGNILLSGDQ	TARMLKYNYP
ef173419-94	EREDDYPDCN	LALVANQPEP	TIINVGDVVS	YGNILLSGDQ	TARMLKYNYP
hrv-95	NSEDDYTNCN	LALVANQEVV	QILEVGDVVS	YGNILLSGNN	TARMLKYDYP
hrv-96	EGEDDYPECN	LALVANQPEP	TIINVGDVIS	YGNILLSGTQ	TARMLKYNYP
hrv-98	ENEDDYPDCN	LALSANQPET	TIINVGDVVS	YGNILLSGNQ	TARMLKYNYP
hrv-100	ENEDDYPDCN	LALSANQPET	TIINVGDVVS	YGNILLSGNQ	TARMLKYNYP
ef186077-qpm	DYQRDWQNMR	LVTNVPKFPM	LDIEIGDVIP	YGDINLSGNP	TTRLLKYDYP
ef077279-nat001	DYQRDWQGM	LVTNVPKFPM	FDAEVDVIP	YGDINLSGNP	TTRLLKYDYP
ny1078	DYQRDWQNMR	LVTNVPKFPM	LDIEVGDVVP	YGDINLSGNP	TTRLLKYDYP
ef582385-c024	EHQQDWHNIH	LATNVTKFPM	LNVEVGHTVP	YGEINLSGNA	TCRLYKYDYP
ef077280-nat045	ETIEEWHHIR	LVTNVSKFPM	FFADVGTATP	YGEITLSGNP	TCRLLKYDYP
ef582387-c026	DYQRDWQNMR	LVTNVPKFPM	LDIEIGDVIP	YGDINLSGNP	TTRLLKYDYP
ef582386-c025	EHIEEWRNMR	LATNVPKFPM	MDVEVGDVTP	YGEINLSGNL	TCRLLKYNYP
dq473485-03	SEDLEGLDAT	LVVHNSNGFTN	TILDVGPITM	AGLINLSNTP	TTRMIRYDYP
ef173422-03	SEDLEGLDAT	LVVHNSNGFTN	TILDVGPITM	AGLINLSNTP	TTRMIRYDYP
dq473490-04	ADDPECNEAT	LVINSNNFKD	TILTVGTTTL	AGIINLSNTP	TARMIRYEFP
hrv-05	ADDPECNEAS	LVIHSNNFKD	TILSVGTTTL	AGIINLSNTP	TARMIRYEFP
dq473486-06	SEDMEGMEAT	LVVHSNNFTN	TILDVGPITM	AGLINLSSTP	TSRMIRYDYP
l05355-14	SEDLEGVDAT	LVVHSNNFTN	TILEVGVPVTM	AGLINLSSTP	TNRMIRYDYA
k02121-14	SEDLEGVDAT	LVVHSNNFTN	TILEVGVPVTM	AGLINLSSTP	TNRMIRYDYA
ef173420-17	ADDPEGMEGT	LVINSNNFKD	TILEVGQLTF	AGLINLSSVP	TNRMIRYEYP
hrv-26	ADEPECSDAT	LVINSNNFKD	TILSVGSTTL	AGIINLSNTP	TARMIRYEFP
hrv-27	ADESECPDAS	LVIHSNNYKD	TIMSVGHITM	AGIINLSNTP	TARMIRYDYP
ef173421-27	ADESECPDAS	LVIHSNNYKD	TIMSVGHITM	AGIINLSNTP	TARMIRYDYP
dq473487-35	SEDVEGLEAT	LVIHSNHFTN	TILDVGPITM	AGLINLSSTP	TNRMIRYDYP
hrv-35	SEDVEGLEAT	LVIHSNHFTN	TILDVGPITM	AGLINLSSTP	TNRMIRYDYP
ef173423-37	SEDIEGMEAT	LVVHSNNFTN	TILEVGPIITM	AGLINLSSTP	TSRMIRYDYP
hrv-42	ADDPECNEAS	LVIHSNNFKD	TILTVGATT	AGIINLSNTP	TARMIRYDFP
dq473488-48	AEDPEGAEGT	LVINSNNFKD	TILEVGQLTF	AGLINLSSVP	TNRMIRYEYP
hrv-52	AEDPEGMEGT	LVINSNNFKD	TILEVGQLTF	AGLINLSSVP	TNRMIRYEYP
hrv-52-f10	AEDPEGMEGT	LVINSNNFKD	TILEVGQLTF	AGLINLSSVP	TNRMIRYEYP
ef173424-52	AEDPEGMEGT	LVINSNNFKD	TILEVGQLTF	AGLINLSSVP	TNRMIRYEYP
hrv-69	AEDPEGVEGT	LVINSNNFRD	TILEVGQLTF	AGLINLSSVP	TNRMIRYEYP
dq473489-70	ADDPEGMEGT	LVINSNNFKD	TILEVGQLTF	AGLINLSSVP	TNRMIRYEYP
hrv-72	SEDFEGVEAT	LVVHSNNYTN	TILEVGVPVTM	AGLINLSSTP	TNRMIRYEYA
hrv-79	SEDLEGLDAT	LVIHSNNFTN	TILDVGPITM	AGLINLSSTP	TNRMIRYDYP
hrv-83	SEDLEGFDAS	LVIHSNNFTN	TILDVGPITM	AGLINLSSTP	TNRMIRYDYP
hrv-84	AEDPECSEAT	LVINSNNFKD	TIITVGQATL	VGMINLSNTP	TTRMIRYDYP
hrv-86	CEDPEGMEAT	LVIHSNNFTN	TILEVGQITM	AGLINLSSTP	TGRMIRYEYP
hrv-91	ADDPEGMEGT	LVINSNNFKD	TILEVGQLTF	AGLINLSSVP	TNRMIRYEYP
hrv-92	SEDAEGLDAS	LVIHSNNYTN	TILDVGPITM	AGLINLSSTP	TNRMIRYDYP
ef173425-93	ADEVECPDAS	LVIHSNNYKN	TIMSVGHTTM	AGIINLSNTP	TARMIRYDYP
hrv-97	ADDLECSEAS	LVIHSNNYKN	TIMSVGHITM	AGIINLSNTP	TARMIRYDYP
hrv-99	ADEPECNEAS	LVIHSNNFKD	TILSVGSTTL	AGIINLSSTP	TARMIRYDFP

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annotation	C..BB	BB..BBBBBB	BBBB..BBBB	BB.HHHHHH.	.QGBBBBBBB
af499637-cva13	TRAGQCGGVI	TCTGKVIGMH	VGGNGSHGFA	AALKRSYFTQ	SQGEIQWMKP
af546702-cva21	TRAGQCGGII	TCTGKVIGMH	VGGNGSHGFA	AALKRSYFTQ	NQGEIQWMRS
v01149-pv1m	TRAGQCGGVI	TCTGKVIGMH	VGGNGSHGFA	AALKRSYFTQ	SQGEIQWMP
d00239-01	TKSGYCGGVL	YKIGQILGIH	VGGNGRDGFS	AMLLRSYFTD	TQGQIKISKH
pico-01	TKSGYCGGVL	YKIGQILGIH	VGGNGRDGFS	AMLLRSYFTD	TQGQIKVNKH
hrv-01	TKSGYCGGVL	YKIGQILGIH	VGGNGRDGFS	AMLLRSYFTD	TQGQIKVNKH
x02316-02	TKSGYCGGVL	YKIGQVLGIH	VGGNGRDGFS	AMLLRSYFTD	VQGQITLSKK
hrv-07	TKAGFCGGVL	YKVGSIILGIH	VGGNGRDGFS	AMLLQSYFSE	TQGLITKELP
dq473503-07	TKAGFCGGVL	YKVGSIILGIH	VGGNGRDGFS	AMLLQSYFSE	TQGLITKELP

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hrv-08	TKSGFCGGVL	YKVGQVIGIH	VGGNGRQGF	AMLLKRYFNQ	QQGQIIKKP
pico-09	TKSGYCGGV	YKIGSIIGIH	VGGNGRDGF	AMLLRSYFNE	TQGQIINSRN
hrv-09	TKSGYCGGV	YKIGSIIGIH	VGGNGRDGF	AMLLRSYFNE	TQGQIISSRN
hrv-09-f01	TKSGYCGGV	YKIGSIIGIH	VGGNGRDGF	AMLLRSYFNE	TQGQIVSSRN
hrv-09-f02	TKSGYCGGV	YKIGSIIGIH	VGGNGRDGF	AMLLRSYFNE	TQGQIVSSRN
dq473498-10	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGEIIISKS
hrv-10	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGEIIISKS
ef173414-11	TKSGYCGGIL	YKIGQILGIH	VGGNGRDGFA	AMLLRSYFSE	AQGQITTSKS
ef173415-12	TKSGYCGGV	YKIGQIVGIH	VGGNGRDGF	AMLLRSYFTN	FQGVITMQDD
hrv-13	TKSGYCGGV	YKIGQIIIGIH	VGGNGRDGF	AMLLRSYFNQ	TQGEITVTKK
hrv-13-f03	TKSGYCGGV	YKIGQIIIGIH	VGGNGRDGF	AMLLRSYFNQ	TQGEITVAKK
dq473493-15	TKSGYCGGV	YKIGSVIGIH	VGGNGRDGF	AMLLRSYFSE	TQGQITLKKK
l24917-16	TKSGYCGGV	YKIGQILGIH	VGGNGRDGF	SMLLRSYFTE	QQGQIQISKH
hrv-18	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIVSSKS
hrv-19	TKSGYCGGV	YKIGVVLGIH	VGGNGRDGF	SMLLRSYFSE	TQGEITKTEN
hrv-20	TKSGFCGGVL	YKIGLVLGIH	VGGNGRDGF	AMLLRSYFTE	QQGKITSKTS
hrv-21	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIINSKP
hrv-22	TKSGYCGGV	YKIGNILGIH	VGGNGKDGFS	ATLLRSYFSE	TQGQITKTTS
dq473497-23	TKSGYCGGV	YKIGQVLGIH	VGGNGRDGF	AMLLRSYFAD	TQGQITLSKR
hrv-24	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIVTRKS
ef173416-24	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIVTRKS
hrv-25	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIITSKS
dq473508-28	TKSGFCGGVL	YKIGLVLGIH	VGGNGRDGF	AMLLRSYFTE	HQGKIVSKAN
hrv-29	TKSGYCGGIL	YKIGQVLGIH	VGGNGKDGFA	AMLLRSYFSE	TQGQIITSKS
dq473512-30	TKSGYCGGV	YKIGQVLGIH	VGGNGRDGF	AMLLRSYFAD	TQGQITLSKR
hrv-30	TKSGYCGGV	YKIGQVLGIH	VGGNGRDGF	AMLLRSYFAD	TQGQITLSKR
hrv-31	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIVVTKP
hrv-32	TKSGYCGGV	YKIGSIIGIH	VGGNGRDGF	AMLLRSYFSE	TQGQITSSRN
hrv-33	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQITISKP
hrv-34	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFTE	AQGQIITSKS
dq473501-34	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFTE	AQGQIITSKS
dq473505-36	TKAGYCGGV	YKVGSIILGIH	VGGNGRDGF	AMLLKSYFGE	TQGLITKELP
hrv-38	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFTE	VQGQITTTKS
dq473495-38	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFTE	VQGQITTTKS
ay751783-39	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGF	AMLLRSYFTD	TQGQITLSKK
hrv-40	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFTE	TQGQIITSKS
dq473491-41	TKSGYCGGV	YKIGQIMGIH	VGGNGRDGF	AMLLRSYFSE	TQGEITTTTRK
hrv-43	TKSGYCGGV	YKIGNVLGIH	VGGNGRDGF	AMLLRSYFNE	TQGKIITEKS
dq473499-44	TKSGYCGGIL	YKIGQVLGIH	VGGNGKDGFA	AMLLRSYFSE	TQGQIITSKS
hrv-45	TKSGFCGGVL	YKVGQVIGIH	VGGNGRQGF	AMLLKRYFNQ	QQGQIILKKP
dq473506-46	TKSGFCGGVL	YKIGLVLGIH	VGGNGRDGF	AMLLRSYFNE	QQGKIVSRAD
hrv-47	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQITTTKP
dq473496-49	TKSGYCGGV	YKIGQVLGIH	VGGNGRDGF	AMLLRSYFTD	VQGQIISSKK
hrv-49-f04	TKSGYCGGV	YKIGQVLGIH	VGGNGRDGF	AMLLRSYFTD	VQGQIVSSKK
hrv-50	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIITSKS
hrv-51	TKSGFCGGIL	YKIGLILGIH	VGGNGRNGFS	AMLLRSYFNE	QQGQIMTKAD
dq473507-53	TKSGFCGGVL	YKIGLILGIH	VGGNGRDGF	AMLLRSYFNE	QQGKIVSKAE
hrv-54	TKSGYCGGIL	YKIGQVLGIH	VGGNGKDGFA	AMLLRSYFTE	AQGQIVTTKP
hrv-54-f05	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFTE	AQGQIVTTKS
dq473511-55	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQITNSRP
hrv-56	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGKIVTSKS
hrv-57	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	AQGQIISSKS
hrv-58	TKAGYCGGV	YKVGSIILGIH	VGGNGRDGF	AMLLKSYFGE	TQGLITKELP
dq473500-59	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGF	AMLLRSYFSE	TQGQIISP KP
hrv-60	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFTE	AQGQITTTKT
hrv-61	TKSGYCGGV	YKIGQIIIGIH	VGGNGRDGF	AMLLRSYFSE	TQGEIITSKK
hrv-62	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIITSRS
hrv-63	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGKVIVSKF

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hrv-64	TKSGYCGGVL	YKIGSVLGIH	VGGNGRDGFS	ATLIRSYFSE	AQGQITKRTN
ef173417-64	TKSGYCGGVL	YKIGSVLGIH	VGGNGRDGFS	ATLIRSYFSE	AQGQITKRTN
hrv-65	TKSGFCGGVL	YKIGLVLGIH	VGGNGRNGFS	AMLLRSYFNE	QQGQIMSRAD
hrv-66	TKSGYCGGIL	YKIGQIIGIH	VGGNGRDGFS	AMLLRSYFSE	TQGQIVAKKS
hrv-67	TKSGYCGGVL	YKIGSVIGIH	VGGNGRDGFS	AMLLRSYFSE	TQGQITSSRN
hrv-68	TKSGFCGGVL	YKIGLVLGIH	VGGNGRDGFS	AMLLRSYFTE	QQGKIVSKVS
hrv-71	TKSGFCGGVL	YKIGLILGIH	VGGNGRNGFS	AMLLRSYFNE	QQGKIVSTSD
dq473492-73	TKSGYCGGVL	YKIGQIIGIH	VGGNGRDGFS	AMLLRSYFNQ	TQGEITVTKK
dq473494-74	TKSGYCGGVL	YKIGSVLGIH	VGGNGRDGFS	AMLLRSYFSE	TQGQLTTTCK
dq473510-75	TKSGYCGGVL	YKIGNILGIH	VGGNGRDGFS	AMLLRSYFNE	TQ GKIVA AKD
dq473502-76	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQITISKP
hrv-76	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQITISKP
hrv-77	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFTE	AQGQIVTTKP
hrv-78	TKSGFCGGVL	YKVGHIIGIH	VGGNGRDGFS	AMILRSYFNE	NQGLIKNKTD
ef173418-78	TKSGFCGGVL	YKIGHIIGIH	VGGNGRDGFS	AMILRSYFNE	NQGLIKNKTD
hrv-80	TKSGYCGGVL	YKIGLIIGIH	VGGNGKDGFS	AMLLRSYFNN	HQGQIVNKTT
hrv-81	TKSGYCGGVL	YKIGLILGIH	VGGNGRDGFS	SMLLRSYFTE	QQGQIKISQH
hrv-81-f06	TKSGYCGGVL	YKIGLVLGIH	VGGNGRDGFS	SMLLRSYFTE	QQGQIKISKH
hrv-81-f07	TKSGYCGGVL	YKIGLVLGIH	VGGNGRDGFS	SMLLRSYFTE	QQGQIKISKH
hrv-82	TKSGYCGGVL	YKIGNILGIH	VGGNGKDGFS	ATLLRSYFSE	TQGQITKTAN
dq473509-82	TKSGYCGGVL	YKIGNVLGIH	VGGNGKDGFS	ATLLRSYFSE	TQGQITKTAN
hrv-85	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIISTKS
pico-85	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIISTKS
dq473504-88	TKAGYCGGVL	YKVGSI LGIH	VGGNGRDGFS	AMLLKSYFNE	TQGLITKELP
a10937-89	TKAGYCGGVL	YKVGSI LGIH	VGGNGRDGFS	AMLLKSYFGE	TQGLITKELP
hrv-89	TKAGYCGGVL	YKVGSI LGIH	VGGNGRDGFS	AMLLKSYFGE	TQGLITKELP
hrv-89-f08	TKAGYCGGVL	YKVGSI LGIH	VGGNGRDGFS	AMLLKSYFGE	TQGLITKELP
hrv-89-f09	TKAGYCGGVL	YKVGSI LGIH	VGGNGRDGFS	AMLLKSYFGE	TQGLITKELP
m16248-89	TKAGYCGGVL	YKVGSI LGIH	VGGNGRDGFS	AMLLKSYFGE	TQGLITKELP
hrv-90	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQITSTKT
hrv-94	TKSGYCGGVL	YKIGNILGIH	VGGNGKDGFS	ATLIRSYFSE	TQGQITKRTS
ef173419-94	TKSGYCGGVL	YKIGNILGIH	VGGNGKDGFS	ATLIRSYFSE	TQGQITKRTS
hrv-95	TKSGFCGGVL	YKVGQVIGIH	VGGNGRQGFS	AMLLKRYFNQ	QQGQIIKKP
hrv-96	TKSGYCGGVL	YKIGQIIGIH	VGGNGRDGFS	AMLLRSYFSE	TQGEIKTTCK
hrv-98	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFTE	TQGQIVTTKS
hrv-100	TKSGYCGGIL	YKIGQVLGIH	VGGNGRDGFA	AMLLRSYFSE	TQGQIITTKT
ef186077-qpm	TKPGQCGGVI	LNTGNIIGIH	VGGNGRVGYC	ASLTKSYFAS	AQGEIVNKCK
ef077279-nat001	TKPGQCGGVI	LNTGNIVGIH	VGGNGRVGYC	ASLTKSYFAS	AQGEIVNKCK
ny1078	TKPGQCGGVI	LNTGNIIGIH	VGGNGRVGYC	ASLTKSYFAT	TQGEIVNKCK
ef582385-c024	TQPGQCGAVL	ANTGNIIGIH	VGGNGRVGYA	AALLRKYFAE	EQGAIISKCN
ef077280-nat045	TKPGQCGGVL	GNTGHIVGIH	VGGNGRVGYG	AALLRKYFCE	QQGTITSIVD
ef582387-c026	TKPGQCGGVV	LNTGNIVGIH	VGGNGRVGYC	ASLTKSYFAS	AQGEIINKCK
ef582386-c025	TQPGQCGAVI	ANVGNI IAIH	VGGNGRVGYG	AALLRKYFAA	TQGEITTRKS
dq473485-03	TKTGQCGGVL	CTTGKIFGIH	VGGNGRRGFS	AQLKKQYFVE	KQGLIVSKQK
ef173422-03	TKTGQCGGVL	CTTGKIFGIH	VGGNGRQGFS	AQLKKQYFVE	KQGLIVSKQK
dq473490-04	TKTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVQ	KQGEIVQRKN
hrv-05	TKTGQCGGVL	CSTGKIYGIH	VGGNGKQGFS	AQLKKQYFVQ	KQGQIITKRN
dq473486-06	TKTGQCGGVL	CTTGKIFGIH	VGGNGRQGFS	AQLRKQYFIE	KQGQIISRQK
l05355-14	TKTGQCGGVL	CATGKIFGIH	VGGNGRQGFS	AQLKKQYFVE	KQGQVIARHK
k02121-14	TKTGQCGGVL	CATGKIFGIH	VGGNGRQGFS	AQLKKQYFVE	KQGQVIARHK
ef173420-17	TRTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLRKQYFVE	KQGA IINKRN
hrv-26	TKTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVQ	KQGQIVSKRN
hrv-27	TKTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVQ	KQGEIISKKK
ef173421-27	TKTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVQ	KQGEIISKKK
dq473487-35	TKTGQCGGVL	CTTGKIFGIH	VGGNGRQGFS	AQLRRQYFVS	KQGQIVARQK
hrv-35	TKTGQCGGVL	CTTGKIFGIH	VGGNGRQGFS	AQLRRQYFVS	KQGQIVARQK
ef173423-37	TKTGQCGGVL	CTTGKIFGIH	VGGNGRQGFS	AQLRRQYFIE	KQGQIVSRQK
hrv-42	TRTGQCGGVL	CSTGKIYGIH	VGGNGKQGFS	AQLKKQYFVQ	KQGQIITKRN

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dq473488-48	TKTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVE	KQGAITTKRN
hrv-52	TRTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVE	KQGAITTRKN
hrv-52-f10	TRTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKRQYFVE	KQGAITTRKN
ef173424-52	TRTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVE	KQGAITTRKN
hrv-69	TRTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVE	KQGAITTKRN
dq473489-70	TRTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLRKQYFVE	KQGAINKRN
hrv-72	TKTGQCGGVL	CATGKIFGIH	VGGNGRQGFS	AQLKRQYFVE	KQGQVIARQK
hrv-79	TRTGQCGGVL	CTTGKIFGIH	VGGNGRQGFS	AQLRRQYFVS	KQGQITSRQK
hrv-83	TRTGQCGGVL	CTTGKIFGIH	VGGNGRQGFS	AQLRKQYFVS	KQGQITSRQK
hrv-84	TKTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLRKQYFVQ	QQGQIISRKH
hrv-86	TKTGQCGGVL	CSTGKIFGIH	VGGNGRQGFS	AQLRKQYFVE	KQGEIVSKQK
hrv-91	TRTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVE	KQGAINKRS
hrv-92	TRTGQCGGVL	CTTGKIFGIH	VGGNGRQGFS	AQLRKQYFVA	KQGQVVTRQK
ef173425-93	TKTGQCGGVL	CSTGKIYGIH	VGGNGKQGFS	AQLKKQYFVQ	KQGEIISKRK
hrv-97	TKTGQCGGVL	CSTGKIYGIH	VGGNGKQGFS	AQLKKQYFVQ	KQGEIISKRK
hrv-99	TKTGQCGGVL	CSTGKIYGIH	VGGNGRQGFS	AQLKKQYFVQ	KQGEIVTKRN
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annotation	.HHHH.....				HHHHH
af499637-cva13	SKEMGYPIIN	APSKTKLEPS	AFHYVFEGVK	EPAVLTKNDP	RLKTDFFEEAI
af546702-cva21	SKEVGYPIN	APSKTKLEPS	AFHYVFEGVK	EPAVLTKNDP	RLKTDFFEEAI
v01149-pv1m	SKEVGYPIN	APSKTKLEPS	AFHYVFEGVK	EPAVLTKNDP	RLKTDFFEEAI
d00239-01	ANECGLPTIH	TPSKTKLQPS	VFYDVFPFSK	EPAVSRDNDP	RLKVNFKFKEAL
pico-01	ATECGLPTIH	TPSKTKLQPS	VFYDVFPFSK	EPAVLTDNDP	RLEVNFKFKEAL
hrv-01	ATECGLPTIH	TPSKTKLQPS	VFYDVFPFSK	EPAVLTDNDP	RLEVNFKFKEAL
x02316-02	TSECNLPSIH	TPCKTKLQPS	VFYDVFPFSK	EPAVLSEKDA	RLQVDFNEAL
hrv-07	VSSKNLPSIH	VSSKTRLQPS	VFYDVFPFSK	EPAVLSSNDP	RLEVDFFDSAL
dq473503-07	VSSKNLPSIH	VSSKTRLQPS	VFYDVFPFSK	EPAVLSSNDP	RLEVDFFDSAL
hrv-08	VKEVDYPSIH	TPTKTKLQPS	IFHDVFPFSK	EPAVLSEKDP	RLQVDLNTSL
pico-09	VKDLGYPTIH	TPSKTKLHPS	VFHDVFKGSK	EPAVLSEKDP	RLEVDFFKTSK
hrv-09	VKDLGYPTIH	TPSKTKLHPS	VFHDVFKGSK	EPAVLTEKDP	RLEVDFFKTSK
hrv-09-f01	VKDIFYPTIH	TPSKTKLHPS	VFHDVFKGSK	EPAVLSEKDP	RLEVDFFKTSK
hrv-09-f02	VKDIFYPTIH	TPSKTKLHPS	VFHDVFKGSK	EPAVLSEKDP	RLEVDFFKTSK
dq473498-10	TSECNLPSIH	TPSKTKLQPS	VFFDVFPFSK	EPAVLSSNDP	RLEVDFFNKAL
hrv-10	TSECNLPSIH	TPSKTKLQPS	VFFDVFPFSK	EPAVLSSNDP	RLEVDFFNKAL
ef173414-11	VTELGLPSIH	TPSKTKLQPS	IFHDVFPFSK	EPAVLSDNDP	RLKVNFKFKEAL
ef173415-12	VRNLAMPPIH	VPTKTKLQPS	VFHDIFPFSK	EPAVLSEKSDS	RLETDFFETAL
hrv-13	VTECGLPTIH	TPSKTKLQPS	VFFDVFEFSK	EPAVLTDNDP	RLTTDFNKAL
hrv-13-f03	VAECGLPTIH	TPSKTKLQPS	VFFDVFEFSK	EPAVLTDNDP	RLTTDFNKAL
dq473493-15	VQECGYPTIH	NPNKTRLHPS	VFFDVFKGSK	EPAVLSEKDP	RLSVDFKTSK
l24917-16	VKDVGLPSIH	TPTKTKLQPS	VFYDIFPFSK	EPAVLTEKDP	RLKVDFFDSAL
hrv-18	TAECNYPPIH	TPSKTKLQPS	VFYDIFPFSK	EPAVLSEKDP	RLKVDFFKEAL
hrv-19	VRERDLPTIH	TPSKTKLQPS	AFFDVFEFSK	EPAVLSDNDP	RLQTDFFKTSK
hrv-20	VKECNLYSIH	TPSNTKLQPS	VFYDVFPFSK	EPAVLSEKDP	RLEVDLDESI
hrv-21	TDKCNLPSIH	TPSKTKLQPS	VFYDIFPFSK	EPAVLSEKDP	RLEVDFFKTSK
hrv-22	VRECGLPTIH	TPSKTKLQPS	VFYDVFEFSK	EPAVLTDNDP	RLETDFFKTSK
dq473497-23	TSECNLPSIH	NPCKTKLQPS	VFYDVFPFSK	EPAVLSEKDP	RLQVDFFNESL
hrv-24	TLDCNLPSIH	TPSKTKLQPS	VFYDVFPFSK	EPAVLSEHDP	RLEVNFKFKEAL
ef173416-24	TLDCNLPSIH	TPSKTKLQPS	VFYDVFPFSK	EPAVLSEHDP	RLEVNFKFKEAL
hrv-25	TSECNLPSIH	TPNKTCLQPS	VFYDVFPFSK	EPAVLSEHDP	RLEVDFFKEAL
dq473508-28	VKECNLYSIH	TPSNTKLQPS	VFHDIFPFSK	EPAVLSEKDP	RLEVNLDSEI
hrv-29	TSECNLPSIH	TPSKTKLQPS	VFYDVFPFSK	EPAVLSEHDP	RLKVDFFKEAL
dq473512-30	TSECNLPSIH	NPCKTKLQPS	VFYDVFPFSK	EPAVLSEKDP	RLQVDFFNEAL
hrv-30	TSECNLPSIH	NPCKTKLQPS	VFYDVFPFSK	EPAVLSEKDP	RLQVDFFNEAL
hrv-31	TIECNLPSIH	TPSKTKLQPS	VFYDVFPFSK	EPAVLSEHDS	RLEVDFFKQAL
hrv-32	VKDLGYPTIH	TPNKTCLHPS	VFYDVFKGSK	EPAVLSEKDP	RLETDFFKTSK
hrv-33	VVELGLPSIH	TPSKTKLQPS	VFHDVFPFSK	EPAVLSDNDP	RLEVDFFKQAL
hrv-34	TAECNLPSIH	TPSKTKLQPS	VFYDVFPFSK	EPAVLSDNDP	RLKVNFFSEAL

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dq473501-34	TAECNLPSIH	TPSKTKLQPS	VFYDVFPGNK	EPAVLSDHDP	RLKVNFEAL
dq473505-36	VSARNLPSIH	VSSKTRLQPS	VFHDVFPGTK	EPAVLNNNDP	RLETDFDTAL
hrv-38	TSECNLPSIH	TPSKTKLQPS	VFHDVFPGSK	EPAVLSEHDP	RLKVNFEAL
dq473495-38	TSECNLPSIH	TPSKTKLQPS	VFHDVFPGSK	EPAVLSEHDP	RLKVNFEAL
ay751783-39	TSECNLPSIH	NPSKTKLQPS	VFYDIFPGSK	QPAVLSEKDT	RLQVDFNEAL
hrv-40	TIECNLPSIH	TPSKTKLQPS	VFYDVFPGNK	EPAVLSEHDP	RLKVDFKEAL
dq473491-41	VSELNLPTIH	TPAKTKLQPS	VFFDVFEFEGTK	EPAVLTERDP	RLTTDFNTAL
hrv-43	VREYGFPTIH	TPSKTKLQPS	VFFDVFDGSK	EPAVLSDKDP	RLETDFKTAL
dq473499-44	TSECGVPSIH	TPSKTKLQPS	VFYDVFPGNK	EPAVLSSNDP	RLKVDFKEAL
hrv-45	VKEVDYPSIH	TPTKTKLQPS	VFHDIFPGVK	EPAVLTEKDP	RLEVDLNSSL
dq473506-46	VKEYNMYSIH	TPTKTKLQPS	VFHDVFPGSK	EPAVLSTKDP	RLEVDLDSSI
hrv-47	TIECNLPSIH	TPSKTKLQPS	VFYDVFPGSK	EPAVLSEYDP	RLEVDFKQAL
dq473496-49	TSECNLPSIH	NPSKTKLQPS	VFYDVFPGSK	EPAVLSEKDT	RLQVDFNEAL
hrv-49-f04	TSECNLPSIH	SPSKTKLQPS	VFYDVFPGSK	EPAVLSEKDA	RLQVDFNEAL
hrv-50	TIECNLPSIH	TPSKTKLQPS	VFYDVFPGNK	EPAVLSNHDP	RLKVDFNEAL
hrv-51	VKEKNLYSIH	TPTKTKLQPS	IFHDVFPGKK	EPAVLSSKDP	RLQVDLEEAI
dq473507-53	VKEHNLYSIH	TPTKTKLQPS	VFHDVFPGSK	EPAVLSTRDP	RLEVDLDSSI
hrv-54	TIECNLPSIH	TPSKTKLQPS	VFYDVFPGSK	EPAVLSEHDP	RLEVDFKQAL
hrv-54-f05	TIECNLPSIH	TPSKTKLQPS	VFYDVFPGSK	EPAVLSEHDP	RLEVDFKQAL
dq473511-55	TSECNLPSIH	TPSKTKLQPS	VFYDVFPGNK	EPAVLSSNDP	RLEVDLNSSL
hrv-56	TSECNLPSIH	TPSKTKLQPS	VFFDVFPGTK	EPAVLTSNDH	RLEVDLNSSL
hrv-57	TDKCGLPSIH	TPSKTKLQPS	VFYDVFPGSK	EPAVLSSNDP	RLEVDLNSSL
hrv-58	VSVKNLPSIH	VSSKTRLQPS	VFHDVFPGTK	EPAVLSSNDP	RLETDFDTAL
dq473500-59	TSLCGLPSIH	TPSKTKLQPS	VFHDIFPGSK	EPAVLSSKDP	RLEVDLNSSL
hrv-60	TAECNLPSIH	TPSKTKLQPS	VFYDVFPGNK	EPAVLSEHDP	RLKTNFKEAL
hrv-61	VHECGYPTIH	TPAKTKLQPS	VFFDVFEFEGTK	EPAVLTEKDP	RLTTDFNQL
hrv-62	TSECNLPSIH	TPNKTLLQPS	VFYDVFPGSK	EPAVLTSNDP	RLEVDLNSSL
hrv-63	AKECGLPSIH	TPSKTKLQPS	VFYDVFPGTK	EPAVLSSNDP	RLEVDLNSSL
hrv-64	VNECGLPTIH	TPSKTKLQPS	VFYDVFEFEGTK	EPAVLTDKDP	RLETDFKTAL
ef173417-64	VNECGLPTIH	TPSKTKLQPS	VFYDVFEFEGTK	EPAVLTDKDP	RLETDFKTAL
hrv-65	VREKNLFSIH	TPTKTKLQPS	VFHDVFPGKK	EPAVLSSKDP	RLQVDLEESI
hrv-66	TIECNLPSIH	TPSKTKLQPS	IFYDVFPGNK	EPAVLSDHDP	RLEVDLNSSL
hrv-67	VKDLGYPTIH	TPNKTLLHPS	VFHDVFKGSK	EPAVLSDKDP	RLETDFRTSL
hrv-68	VKECNLYSIH	TPSNTKLQPS	VFYDVFPGSK	EPAVLSGKDP	RLEVDLNSSL
hrv-71	VKDKNLYSIH	TPTNTKLQPS	VFHDVFPGKK	EPAVLSPKDP	RLQVNLEEAI
dq473492-73	VAECGLPTIH	TPSKTKLQPS	VFFDVFEFEGSK	EPAVLTDKDP	RLTTDFNQL
dq473494-74	VQDCGYPTIH	NPTKTKLLPS	VFFDVFKGSK	EPAVLSEKDP	RLETDFRTAL
dq473510-75	VRNIGYPTIH	TPSKTKLQPS	VFFDVFEFEGTK	EPAVLSESDP	RLKTDFKTAL
dq473502-76	TVELGLPSIH	TPSKTKLQPS	VFHDVFPGSK	EPAVLSDNDP	RLEVDLNSSL
hrv-76	TVELGLPSIH	TPSKTKLQPS	VFHDVFPGSK	EPAVLSDNDP	RLEVDLNSSL
hrv-77	TTECNLPSIH	TPSKTKLQPS	IFYDIFPGNK	EPAVLSENDP	RLEVDLNSSL
hrv-78	VSVAGFNPVH	VPSKTKLQPS	IFFDVFPGDK	EPAVLSEHDP	RLEVDLNSSL
ef173418-78	VSVAGFNPVH	VPSKTKLQPS	IFFDVFPGDK	EPAVLSEHDP	RLEVDLNSSL
hrv-80	TKEKGIYSIH	TPTKTKLQPS	VFHDVFPGTK	EPAVLSPYDN	RLNVDLEESI
hrv-81	VKDVGLPSIH	TPSKTKLQPS	VFYDVFPGSK	EPAVLTDKDP	RLKVDFETAL
hrv-81-f06	VKDVGLPSIH	TPSKTKLQPS	VFYDIFPGSK	EPAVLTDKDP	RLKVDFETAL
hrv-81-f07	VKDVGLPSIH	TPSKTKLQPS	VFYDIFPGSK	EPAVLTDKDP	RLKVDFETAL
hrv-82	VREYGLPTIH	TPSKTKLQPS	VFHDVFKGSK	EPAVLSEKDP	RLETDFKKAL
dq473509-82	VKEHGFPTIH	TPSKTKLQPS	VFYDVFKGSK	EPAVLSEKDP	RLETDFKKAL
hrv-85	TTECNYPVH	TPSKTKLQPS	VFYDVFPGNK	EPAVLSEHDP	RLKVDFKEAL
pico-85	TTECNYPVH	TPSKTKLQPS	VFYDVFPGNK	EPAVLSEHDP	RLKVDFKEAL
dq473504-88	VSAKNLPSIH	VSSKTRLQPS	VFHDVFPGTK	EPAVLSDRDP	RLEVDLNSSL
a10937-89	VSVKNLPSVH	VSSKTRLQPS	VFHDVFPGTK	EPAVLSSNDP	RLETDFDSAL
hrv-89	VSVKNLPSIH	VSSKTRLQPS	VFHDVFPGTK	EPAVLSSNDP	RLETDFDSAL
hrv-89-f08	VSVKNLPSIH	VSSKTRLQPS	VFHDVFPGTK	EPAVLSSNDP	RLETDFDSAL
hrv-89-f09	VSVKNLPSIH	VSSKTRLQPS	VFHDVFPGTK	EPAVLSSNDP	RLETDFDSAL
m16248-89	VSVKNLPSVH	VSSKTRLQPS	VFHDVFPGTK	EPAVLSSNDP	RLETDFDSAL
hrv-90	THECALPSIH	TPSKTKLQPS	VFYDVFPGSK	EPAVLSDHDP	RLEVDLNSSL

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hrv-94	TKEYGLPTIH	TPSKTKLQPS	VFYDVFEGTK	EPAVLTDKDP	RLETDFKTAL
ef173419-94	TKEYGLPTIH	TPSKTKLQPS	VFYDVFEGTK	EPAVLTDKDP	RLETDFKTAL
hrv-95	VKEVDYPSIH	TPTKTKLQPS	IFHDFVPGVK	EPAVLSEKDP	RLQVDLNTSL
hrv-96	VNECGYPTIH	TPAKTKLQPS	VFFDVFEGSK	EPAVLSEKDP	RLKTDNFQAL
hrv-98	TIECNLPSIH	TPSKTKLQPS	VFYDVFPGSK	EPAVLSEHDP	RLEVDFKQAL
hrv-100	TLECNLPSIH	TPSKTKLQPS	VFYDVFPGSK	EPAVLSSSDP	RLEVDFKEAL
ef186077-qpm	VQDVGLKPIN	TPEHSLKHP	VFYDIFPGEK	EPAVLTKQDP	RLETDLKTAV
ef077279-nat001	VQDVGLKPIN	TPEHSLKLYPS	VFYDIFPGEK	EPAVLTKQDP	RLETDLKTAV
ny1078	VQDVGLKPIN	TPEHSLKLYPS	VFFHVFPGEK	EPAALTKQDP	RLETDLKTAV
ef582385-c024	VKEKNWKPVN	TPSQTKLHPS	VFHDFVPGVK	EPAALHPKDP	RLEVDLTTAV
ef077280-nat045	VRELGYSPIN	TPAKTKLLPS	VFYDIFPGIK	EPAPLSNRDS	RLESNLDDTV
ef582387-c026	VQDVGLKPIN	TPEHSLKHP	VFYDIFPGEK	EPAVLTKQDP	RLETDLKTAV
ef582386-c025	VRDVGMSPIN	TPCKTKLYPS	VFYDIFPGKK	EPAALSDKDP	RLEVNKLEAV
dq473485-03	VRDIGLNPIN	TPTKTKLHPS	VFYNVFPGSK	QPAVLNDNDP	RLEVKLAESL
ef173422-03	VRDIGLNPIN	TPTKTKLHPS	VFYNVFPGSK	QPAVLNDNDP	RLEVKLAESL
dq473490-04	VRELDIKPIN	TPSKTKLHPS	VFYNVFPGTK	EPAVLHPSDS	RLEVDFEESL
hrv-05	VRELDIKPIN	TPSKTKLHPS	VFYNVFPGSK	EPAVLHPADE	RLEVNFEESL
dq473486-06	VRELNMASIN	TPTKSKLHPS	VFYNVFPGSK	EPAVLSDNDP	RLEVKLSDSL
l05355-14	VREFNINPVN	TPTKSKLHPS	VFYDVFPGDK	EPAVLSDNDP	RLEVKLTESL
k02121-14	VREFNINPVN	TATKSKLHPS	VFYDVFPGDK	EPAVLSDNDP	RLEVKLTESL
ef173420-17	VKELGLKPIN	TPTKTKLHPS	VFYETFPGTK	EPAALNDSDP	RLEVNLRDSL
hrv-26	VRELNKIPIN	TPNTTKLHPS	VFYNVFPGSK	EPAVLHPADQ	RLEVNFEESL
hrv-27	VHDLGLKPIN	TPSKTKLLPS	VFYNVFPGTK	EPAVLHPADE	RLEVDFEESL
ef173421-27	VHDLGLKPIN	TPSKTKLLPS	VFYNVFPGTK	EPAVLHPADE	RLEVDFEESL
dq473487-35	LKDLNLMPVN	TPTKTKIHPS	VFYDVFPGSK	EPAVLSDNDP	RLEVKLSESL
hrv-35	LKDLNLMPVN	TPTKTKIHPS	VFYDVFPGSK	EPAVLSDNDP	RLEVKLSESL
ef173423-37	VRELNIAPVN	TPNKTCLHPS	VFYNVFPGSK	EPAVLSDNDP	RLEVKLSDSL
hrv-42	VRELSIKPIN	TPNTTKLHPS	VFYNVFPGSK	EPAVLHPADE	RLEVNFEESL
dq473488-48	VREVGLKPIN	TPTKTKLHPS	VFYEIFPGSK	EPAVLDDHDP	RLEVNLRDSL
hrv-52	VREVGLKPIN	TPTKTKLHPS	VFHEIFPGSK	EPAVLNDTDP	RLEVNLRDSL
hrv-52-f10	VREMGLKPIN	TPTKTKLHPS	VFYEIVFPGSK	EPAVLNDADP	RLEVNLRDSL
ef173424-52	VREVGLKPIN	TPTKTKLHPS	VFHEIFPGSK	EPAVLNDTDP	RLEVNLRDSL
hrv-69	VREVGLKPIN	TPTKTKLHPS	VFYEIVFPGSK	EPAVLDDSDP	RLEVNLRDSL
dq473489-70	VKELGLKPIN	TPTKTKLHPS	VFYEIFPGSK	EPAALNDSDP	RLEVNLRDSL
hrv-72	VRELNMNPN	TPTKSKLHPS	VFYNVFPGDK	EPAVLSDNDP	RLEVKLTESL
hrv-79	LKDLNLNPIN	TPSKTKLHPS	VFYDIFPGNK	QPAVLSDNDP	RLEVKLADSL
hrv-83	LKDLNLNPVN	TPTKTKLHPS	VFHDFVPGSK	QPAVLSDNDP	RLEVKLTESL
hrv-84	VDDLNIKPIN	TPTKTKLLPS	VFYNVFPGSK	EPAVLHPADK	RLEVDLNDSL
hrv-86	VKELGLHPIN	TPSKTKLHPS	VFYNVFEGNK	QPAVLKNDP	RLEVNFEESL
hrv-91	VRELGLKPIN	TPTKTKLHPS	VFYDVFPGSK	EPAALNGSDP	RLEVNLRDSL
hrv-92	LRELNLAPVN	TPTKTKLHPS	VFYDVFPGNK	QPAVLSDNDP	RLEVKLTESL
ef173425-93	VQELGMKPIN	TPNKTCLLPS	VFYNVFPGTK	EPAVLHPADE	RLEVNFEESL
hrv-97	VHDLGLKPIN	TPSKTKLLPS	VFYNVFPGTK	EPAVLHPSDE	RLEVDFEESL
hrv-99	VRELNLKPIN	TPSKTKLHPS	VFFNVFPGSK	EPAVLHPSDE	RLEVIFEDSL

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annotation	HH.....	..HHHHHHHH	HHHHHHHHH.	HHH	HHHHH.....
af499637-cva13	FSKYVGNKIT	EVDEYMKEAV	DHYAGQLMSL	DINTEQMCLE	DAMYGTDGLE
af546702-cva21	FSKYVGNKIT	EVDEYMKEAV	DHYAGQLMSL	DINTEQMCLE	DAMYGTDGLE
v01149-pv1m	FSKYVGNKIT	EVDEYMKEAV	DHYAGQLMSL	DINTEQMCLE	DAMYGTDGLE
d00239-01	FSKYKGNTEC	SLNQHMEIAI	AHYSAQLITL	DIDSKPIALE	DSVFGIEGLE
pico-01	FSKYKGNVEC	NLNEHMEIAI	AHYSAQLMTL	DIDSRPIALE	DSVFGIEGLE
hrv-01	FSKYKGNVEC	NLNEHMEIAI	AHYSAQLMTL	DIDSRPIALE	DSVFGIEGLE
x02316-02	FSKYKGNTEC	SINDHIRIAS	SHYAAQLITL	DIDPKPITLE	DSVFGTDGLE
hrv-07	FSKYKGNVNC	QLTPHMEIAV	AHYAAQLSTL	DINPQPLSLE	ESVFGIDGLE
dq473503-07	FSKYKGNVNC	QLTPHMEIAV	AHYAAQLSTL	DINPQPLSLE	ESVFGIDGLE
hrv-08	FSKYAGNKQM	EVNEYMKVAA	SHYASQLETL	DIPNQQMSIE	DCVYGTDNLE
pico-09	FSKYKGNVDC	TLNEHMRVAI	AHYSAQLMTL	DINPDNITME	ESVFGTDGLE

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hrv-09	FSKYKGNVDC	TLNEHMRVAI	AHYSACLMTL	DINPDNITME	ESVFGTDGLE
hrv-09-f01	FSKYKGNVDC	TLNEHMRVAI	AHYSACLMTL	DINPNNITME	ESVFGTDGLE
hrv-09-f02	FSKYKGNVDC	TLNEHMRVAI	AHYSACLMTL	DINPNNITME	ESVFGTDGLE
dq473498-10	FSKYKGNNEC	VINDHVKQAV	SHYSACLMTL	DINPEPISLE	DSVFGTEGLE
hrv-10	FSKYKGNNEC	VINDHVKQAV	SHYSACLMTL	DINPEPISLE	DSVFGTEGLE
ef173414-11	FSKYKGNNDG	VMNDHIKQAV	SHYSACLTL	DIDSKPITVE	DSVFGIDGLE
ef173415-12	FSKYKGNVHM	DLTPHMEVAI	SHYTAQLSSL	DIPNTELSLE	ECVYGAEGLE
hrv-13	FSKYKGNIEC	SMTDHMRVAV	SHYSACLMTL	DIDSVNISLE	ESVFGTEGLE
hrv-13-f03	FSKYKGNIEC	SMTDHMRVAV	SHYSACLMTL	DIDSVNISLE	ESVFGTEGLE
dq473493-15	FSKYKGNNTC	ELNDHIKQAV	AHYSACLATL	DIGPASMSLE	DSVFGTDGLE
l24917-16	FSKYKGNTEC	SLNEHIQVAV	AHYSACLATL	DIDPQPIAME	DSVFGMDGLE
hrv-18	FSKYKGNNPC	EINEHIKQAV	SHYSACLMTL	DIDPSPISLE	DGVFGMEGLE
hrv-19	FSKYKGNKKF	EMNDHIRVAV	SHYSACLMTL	DIDHSNMSLE	DSVFGIEGLE
hrv-20	FSKYKGNEPV	EITQNMLTAT	AHYTAQLSTL	DINPKPLSLE	ESVYGIEGLE
hrv-21	FSKYKGNEHC	VMNDHINVAI	SHYSACLATL	DINPQPISIE	ESVFGMDGLE
hrv-22	FSKYKGNLPC	EMNDHVKQAV	AHYSACLMTL	EIDSRNMSLE	DSVFGTEGLE
dq473497-23	FSKYKGNTHC	VMNEHIKIAS	AHYAAQLITL	DIDPNPITL	DSVFGTDGLE
hrv-24	FSKYKGNMQC	ELNDHIKQAV	SHYSACLTL	DICPDPISE	DSVFGVEGLE
ef173416-24	FSKYKGNMQC	ELNDHIKQAV	SHYSACLTL	DICPDPISE	DSVFGVEGLE
hrv-25	FSKYKGNMQC	TMNDHIKQAV	SHYSACLMTL	DIDPKPISLE	ESVFGIEGLE
dq473508-28	FSKYKGNEPV	EITQNMLTAA	AHYTAQLSTL	DIDSTPLSLE	ESVYGIEGLE
hrv-29	FSKYKGNMQC	TMNDHIRVAI	SHYSACLMTL	DIDPKPISLE	ESVFGIEGLE
dq473512-30	FSKYKGNTHC	TMNDHMKIAS	SHYAAQLITL	DINPSPITL	DSVFGTDGLE
hrv-30	FSKYKGNTHC	TMNDHMKIAS	SHYAAQLITL	DINPSPITL	DSVFGTDGLE
hrv-31	FSKYKGNMQC	EINDHVKQAV	SHYSACLMTL	DIDPNPISLE	DSVFGAEGLE
hrv-32	FSKYKGNVNC	ELNDHMRVAV	AHYSACLMTL	DIDPSNMTME	ESVFGTDGLE
hrv-33	FSKYKGNNEC	AMNEHIKQAV	SHYSACLHTL	DVDPRPITVE	DSVFGVEGLE
hrv-34	FSKYKGNMQC	TINDHIKQAV	SHYSACLTL	DIDPNPITL	ESVFGIEGLE
dq473501-34	FSKYKGNMQC	TINDHIKQAV	SHYSACLTL	DIDPNPITL	ESVFGIEGLE
dq473505-36	FSKYKGNPAC	EVTTHMKIAV	AHYAAQLSTL	DINPQPLSLE	ESVFGIEGLE
hrv-38	FSKYKGNMQC	EMNDHIRVAI	SHYSACLATL	DIDPNPISLE	DSVFGIEGLE
dq473495-38	FSKYKGNMQC	EMNDHIRVAI	SHYSACLATL	DIDPNPISLE	DSVFGIEGLE
ay751783-39	FSKYKGNVDC	PMNDHIKIAS	SHYAAQLITL	DINPNPITL	DGVFGTEGLE
hrv-40	FSKYKGNNPC	EVNDHIKQAV	SHYSACLMTL	DIDSNPISLE	DSVFGIEGLE
dq473491-41	FSKYKGNVDC	EMSEHMKQAV	SHYSACLMTL	DIDPTKISLE	ESVFGTEGLE
hrv-43	FSKYKGNKEC	EMNDHIKQAV	AHYSACLMTL	DIDHSNMSLG	DSVFGIEGLE
dq473499-44	FSKYKGNMQC	IMNDHIKQAV	SHYSACLMTL	DIDPKPISLE	ESVFGIEGLE
hrv-45	FSKYAGNVNL	EMNEYMIVAA	SHYASQLETL	DISNQQMSIE	ECVYGTDNLE
dq473506-46	FSKYKGNEAI	KITDNMLVAA	AHYTAQLSTL	DIDPQPISLE	DSVYGIEGLE
hrv-47	FSKYKGNMQC	EINDHVRVAI	SHYSACLMTL	DIDSNPISLE	DSVFGTEGLE
dq473496-49	FSKYKGNTNC	FMNDHIRIAS	SHYAAQLITL	DIDPSPITL	DSVFGTDGLE
hrv-49-f04	FSKYKGNTNC	SMNDHIRIAS	SHYAAQLITL	DIDPSPITL	DSVFGTDGLE
hrv-50	FSKYKGNHNC	TMNDHIKQAV	SHYSACLATL	DINPSPISIE	DSVFGIEGLE
hrv-51	FSKYKGNKEI	KITQNMEVAA	AHYAAQLSTL	NINPEPLTME	ESVYGIEGLE
dq473507-53	FSKYKGNEAV	KISENMLVAA	AHYTAQLTL	DIDPQPISLE	DSVYGIEGLE
hrv-54	FSKYKGNMQC	EMNEHIKVAA	SHYSACLMTL	DIDSNPISLE	DSVFGTEGLE
hrv-54-f05	FSKYKGNMQC	EINEHIKVAA	SHYSACLMTL	DIDSNPISLE	DSVFGTEGLE
dq473511-55	FSKYKGNEQC	VINDHIKQAV	SHYSACLATL	DINPQPVISIE	ESVFGMEGLE
hrv-56	FSKYKGNMQC	VMNDHVKQAV	SHYSACLMTL	DINPEPISLE	DSVFGTEGLE
hrv-57	FSKYKGNEHC	VMNDHINVAI	SHYSACLATL	DINPQPISIE	ESVFGIEGLE
hrv-58	FSKYKGNPTC	EVTTHMKIAV	AHYAAQLSTL	DISTQPLSLE	ESVFGIDGLE
dq473500-59	FSKYKGNVDC	PMNDHIRVSV	AHYSACLATL	DIDPNPVSM	EGVFGMEGLE
hrv-60	FSKYKGNMQC	EINDHIRVAI	SHYSACLATL	DIDPSPISLE	DSVFGIEGLE
hrv-61	FSKYKGNVEC	NMSEHMKQAV	SHYSACLMTL	DIDPSNITL	ESVFGTEGLE
hrv-62	FSKYKGNMQC	TINDHIKQAV	SHYSACLMTL	DIDSKPISLE	ESVFGIEGLE
hrv-63	FSKYKGNNEC	AINNHVKQAV	SHYSACLMTL	DINPEPISLE	DSVFGIEGLE
hrv-64	FSKYKGNLPC	EMNDHVKQAV	AHYSACLMTL	EIDSRNMSLE	DSVFGADGLE
ef173417-64	FSKYKGNLPC	EMNDHVKQAV	AHYSACLMTL	EIDSRNMSLE	DSVFGADGLE

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hrv-65	FSKYKGNKQI	EITQNM RVAA	AHYTAQLSTL	DISPEPLSME	ESVYGIEGLE
hrv-66	FSKYKGNNKC	ELNDHIKVAT	SHYAAQLATL	DIDSNPITL	DSVFGVEGLE
hrv-67	FSKYKGNVEC	ELNDHMKVAI	AHYSAQLMTL	DINPSNITIE	DSVFGTDGLE
hrv-68	FSKYKGNELV	EITQNM LTAA	AHYTAQLSTL	DIDPTPLSLE	ESVYGIEGLE
hrv-71	FSKYKGNEKI	EITQNM KIAA	AHYAAQLSTL	DINSEPLTLE	ESVYGIEGLE
dq473492-73	FSKYKGNIEC	SMTDHMRVAI	SHYSAQLMTL	DIDSTNMSLE	ESVFGTEGLE
dq473494-74	FSKYKGNNTC	QMNDHIRVAV	AHYSAQLATL	DINPANITL	DSVFGIEGLE
dq473510-75	FSKYKGNPEC	EMNDHIKVAI	AHYSAQLMTL	DIQTSSVSLE	ESVFGIDGLE
dq473502-76	FSKYKGNNEC	TMNEHIKVAV	SHYSAQLHTL	DIDPKSITVE	DSVFGIEGLE
hrv-76	FSKYKGNNEC	TMNEHIKVAV	SHYSAQLHTL	DIDPKSITVE	DSVFGIEGLE
hrv-77	FSKYKGNNPC	EXNDHIKVAV	SHYSAQLMTL	DIDSNPISLE	SSVFGIEGLE
hrv-78	FSKYSGNQOI	EMSDNIKVAI	AHYSAQLSTL	DINPAPLSLE	ECVFGIDGLE
ef173418-78	FSKYSGNQOI	EMSDNIKVAI	AHYSAQLSTL	DINPAPLSLE	ECVFGIDGLE
hrv-80	FSKYKGNTSL	EVTHNMKVAA	THYAAQLMTL	DIDPKPLTLE	ESVYGIEGLE
hrv-81	FSKYKGNVKC	DLNDHMQVAV	AHYSAQLATL	DIDPQPIALE	DSVFGMDGLE
hrv-81-f06	FSKYKGNVEC	ELNDHIQVAV	AHYSAQLATL	DIDPQPVTLE	DSVFGMDGLE
hrv-81-f07	FSKYKGNVEC	ELNDHIQVAV	AHYSAQLATL	DIDPQPVTLE	DSVFGMDGLE
hrv-82	FSKYKGNLDC	EMNDHVKVAV	AHYSAQLMTL	DIDSSNMSLE	DSVFGSEGLE
dq473509-82	FSKYKGNLNC	EINDHVKIAV	AHYSAQLMTL	DIDSNMSLE	DSVFGSDGLE
hrv-85	FSKYKGNGPC	EMNDHIKVAI	SHYSAQLMTL	DIDSNPISLE	DSVFGMEGLE
pico-85	FSKYKGNGPC	EMNDHIKVAI	SHYSAQLMTL	DIDSNPISLE	DSVFGMEGLE
dq473504-88	FSKYKGNADC	PLTSHMKVAV	AHYAAQLSTL	DINPQPLSLE	ESVFGIEGLE
a10937-89	FSKYKGNPAC	QVTPHMKIAV	AHYAAQLSTL	DINPQPLSLE	ESVFGIEGLE
hrv-89	FSKYKGNPAC	QVTPHMKIAV	AHYAAQLSTL	DINPQPLSLE	ESVFGIEGLE
hrv-89-f08	FSKYKGNPAC	QVTPHMKIAV	AHYAAQLSTL	DINPQPLSLE	ESVFGIEGLE
hrv-89-f09	FSKYKGNPAC	QVTPHMKIAV	AHYAAQLSTL	DINPQPLSLE	ESVFGIEGLE
m16248-89	FSKYKGNPAC	QVTPHMKIAV	AHYAAQLSTL	DINPQPLSLE	ESVFGIEGLE
hrv-90	FSKYKGNNQC	VMNDHIKVAI	SHYSAQLMTL	DIDPKPISIE	DSVFGIEGLE
hrv-94	FSKYKGNLPC	EMNDHVKIAV	AHYSAQLMTL	DIDPRNMTLE	DSVFGADGLE
ef173419-94	FSKYKGNLPC	EMNDHVKIAV	AHYSAQLMTL	DIDPRNMTLE	DSVFGADGLE
hrv-95	FSKYAGNKQM	EVNEYMKVAA	SHYASQLETL	DIPNQQMSIE	DCVYGTDNLE
hrv-96	FSKYKGNVNC	DMSEHMKVAV	SHYSAQLMTL	DIDPSNITL	ESVFGTEGLE
hrv-98	FSKYKGNNQC	EMNEHIKVAV	SHYSAQLMTL	DIDSNPISLE	DSVFGTEGLE
hrv-100	FSKYKGNEHC	VLNDHIRVAV	SHYSAQLITL	DIDPKPISLE	DSVFGIEGLE
ef186077-qpm	MSKYKGNVKI	EMSENIQIAV	EHYSAQLFML	DINPEPISLE	QAVYGMENLE
ef077279-nat001	LSKYKGNVQI	EMNENIQIAV	EHYSAQLFML	DINPEPISLE	QAVYSMQNLE
ny1078	MSKYKGNVHI	EMSENIHIAV	EHYSAQLFML	DINPEPITL	QAVYGMQNLE
ef582385-c024	MSKYKGNIDV	PMNEYIETAV	DHYAAQLYML	DINPEPITME	QAIYGYANLE
ef077280-nat045	FSKYKGNAQV	EFNEFMQVAV	DHYSAQLYTL	DINPAPLTLE	QAAYGIPNLE
ef582387-c026	LSKYRGNVEI	EMSENMQIAV	EHYSAQLFML	DINPEPISLE	QAVYGMENLE
ef582386-c025	MSKYKGNKGC	QMNDYVLTAA	KHYAAQLFPL	DINPEPITME	QAVYGTDYLE
dq473485-03	FSKYKGNVQM	EPTENMLIAV	DHYAGQLMSL	DISTKELTLK	EALYGV DGLE
ef173422-03	FSKYKGNVQM	EPTENMLIAV	DHYAGQLMSL	DISTKELTLK	EALYGV DGLE
dq473490-04	FSKYKGNAKM	EITDNMRVAI	DHYSGQLLSL	DIPTQELTLK	EALYGT DGLE
hrv-05	FSKYKGNIES	EITENMKVAI	DHYAGQLLSL	DIPTQELTLK	EALYGT DGLE
dq473486-06	FSKYKGNIEI	KPTENMLIAV	DHYAGQLMSL	DIPTTELTLK	EALYGV DGLE
l05355-14	FSKYKGNVNT	EPTENMLVAV	DHYAGQLLSL	DIPTSELTLK	EALYGV DGLE
k02121-14	FSKYKGNVNT	EPTENMLVAV	DHYAGQLLSL	DIPTSELTLK	EALYGV DGLE
ef173420-17	FSKYKGNVEI	DITENMQIAI	DQYSGQLLSL	DIPTNELSLK	EALYGT DGLE
hrv-26	FSKYKGNVDM	EISDNMKVAI	DHYAGQLLSL	DIPTQELSLK	EALYGT DGLE
hrv-27	FSKYKGNVKM	EISENMTIAI	DHYAGQLLSL	DIPTKELSLK	EALYGT DGLE
ef173421-27	FSKYKGNVKM	EISENMTIAI	DHYAGQLLSL	DIPTKELSLK	EALYGT DGLE
dq473487-35	FSKYKGNVEM	KPTDNMLVAV	DHYAGQLMSL	DIPTTELTLK	EALYGV DGLE
hrv-35	FSKYKGNVEM	KPTDNMLVAV	DHYAGQLMSL	DIPTTELTLK	EALYGV DGLE
ef173423-37	FSKYKGNVEM	KPTDNMLVAV	DHYAGQLMSL	DIPTTELTLK	EALYGV DGLE
hrv-42	FSKYKGNVKM	EITENMKVAI	DHYAGQLLSL	DIPTQELTLK	EALYGT DGLE
dq473488-48	FSKYKGNVET	NITENMQIAI	DQYSGQLLSL	DIPTTELTLK	DALYGT DGLE
hrv-52	FSKYKGNVEI	DITENMQVAI	DQYSGQLLSL	DIPTTEELSLK	EALYGT DGLE

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hrv-52-f10	FSKYRGNVET	DITENMQVAI	DQYSGQLLSL	DISTDELSLK	EALYGTGDGL
ef173424-52	FSKYKGNVEI	DITENMQVAI	DQYSGQLLSL	DIPTEELSLK	EALYGTGDGL
hrv-69	FSKYKGNVEV	DITENMQVAI	DHYSGQLLSL	DIPTDEMSLK	EALYGTGDGL
dq473489-70	FSKYKGNVEI	DITENMQIAI	DQYSGQLLSL	DIPTDELSLK	EALYGTGDGL
hrv-72	FSKYKGNVEM	EPTENMLVAV	DHYAGQLLSL	DIPTEELTIK	EALYGVDGL
hrv-79	FSKYKGNVEM	KPTDNMLVAI	DHYAGQLMSL	DIPTNELTLK	EALYGVDGL
hrv-83	FSKYKGNVEM	KPTENMLIAV	DHYAGQLMSL	DIPTGELSLK	EALYGVDGL
hrv-84	FSKYKGNVNM	KMTENMKVAV	DHYAGQLMSL	EIPTEELSLK	EALYGTGDGL
hrv-86	FSKYKGNVEM	KPTPNMIVAV	DHYAGQLMSL	DIPVKELSLK	EALYGVDGL
hrv-91	FSKYKGNIEI	DITENMQIAI	DQYSGQLLSL	DIPTNELSLK	EALYGTGDGL
hrv-92	FSKYKGNVEM	KPTENMLVAV	DHYAGQLLSL	DIPTDELSLK	EALYGVDGL
ef173425-93	FSKYKGNVKM	EISDNMIIAV	DHYAGQLLSL	DIPTRELSLK	EALYGTGDGL
hrv-97	FSKYKGNVKI	EITENMCIAI	DHYAGQLLSL	DIPTKELSLK	EALYGTGDGL
hrv-99	FSKYKGNVKM	EMTENMKVAV	DHYAGQLLSL	DIPTQELTLK	EALYGTGDGL
		1901			
annotation	.....	HHHHH..HHH	HH.....	HHHHHHHHHH	H....BBBBB
af499637-cva13	ALDLSTSAGY	PYVAMGKKKR	DILNKQTRDT	KEMQRLLDTY	GINLPLVTYV
af546702-cva21	ALDLSTSAGY	PYVAMGKKKR	DILDKQTRDT	KEMQRLLDTY	GINLPLVTYV
v01149-pv1m	ALDLSTSAGY	PYVAMGKKKR	DILNKQTRDT	KEMQKLLDTY	GINLPLVTYV
d00239-01	ALDLNTSAGF	PYVTMGIKKR	DLINNKTkDI	SRLKEALDKY	GVDLPMITFL
pico-01	ALDLNTSAGF	PYVTMGIKKR	DLINNKTkDI	SRLKEALDKY	GVDLPMITFL
hrv-01	ALDLNTSAGF	PYVTMGIKKR	DLINNKTkDI	SRLKEALDKY	GVDLPMITFL
x02316-02	ALDLNTSAGF	PYIAMGVKKR	DLINNKTkDI	SKLKEAIDKY	GVDLPMVTFL
hrv-07	ALDLNTSAGF	PYVSLGIKKK	DLIDKKARDI	SKLRKAIDKY	GIDLPMVTFL
dq473503-07	ALDLNTSAGF	PYVSLGIKKK	DLIDKKARDI	SKLRKAIDKY	GIDLPMVTFL
hrv-08	ALDLNTSAGF	PYVALGIKKK	DIINKSTRDT	SKIKNCLDTY	GVDLPMITYL
pico-09	ALDLNTSAGF	PYVSMGIKKR	DLINNNTKDI	SKLRAALDKY	GVDLPMVTFL
hrv-09	ALDLNTSAGF	PYVSMGIRKR	DLINNNTKDI	SKLRAALDKY	GVDLPMVTFL
hrv-09-f01	ALDLNTSAGF	PYVSMGIKKR	DLINNNTKDI	SKLRAALDKY	GVDLPMVTFL
hrv-09-f02	ALDLNTSAGF	PYVSMGIKKR	DLINNNTKDI	SKLRAALDKY	GVDLPMVTFL
dq473498-10	ALDLNTSAGF	PYVSMGIKKK	DLINKQTKDV	TKLKMALDKY	GVDLPMVTFL
hrv-10	ALDLNTSAGF	PYVSMGIKKK	DLINKQTKDV	TKLKMALDKY	GVDLPMVTFL
ef173414-11	ALDLNTSAGY	PYVTMGIKKK	DLIDNRNKDL	TKLKVALDKY	GVDLPMVTFL
ef173415-12	ALDLNTSAGY	PYTSLGIKKR	DLIGRD.KDL	SKLKAADKY	GLDLPMITFL
hrv-13	ALDLNTSAGF	PYISMGIKKR	DLINNNTKDI	TKLKLALDKY	GVDLPMVTFL
hrv-13-f03	ALDLNTSAGF	PYISMGIKKR	DLINNNTKDI	TKLKLALDKY	GVDLPMVTFL
dq473493-15	ALDLNTSAGF	PYISLGIKKR	DLINNNTKDL	SRLKSALDKY	GVDLPMVTFL
l24917-16	ALDLNTSAGY	PYVTLGIKKK	DLINNKTkDI	SKLKLALDKY	DVDLPMITFL
hrv-18	ALDLNTSAGF	PYVSMGIRKR	DLINKQTKDI	TKLKLALDKY	GVDLPMVTFL
hrv-19	ALDLNTSAGF	PYISMGIKKR	DLINNNTKDI	SKLKMALDKY	GVDLPMVTFL
hrv-20	ALDLHTSAGY	PYTACGIKKK	DLIPKD.KNL	TKLKHAIEKY	GLDLPMITFL
hrv-21	ALDLNTSAGF	PYVTMGIKKR	DLINKQTKDI	TKLKMALDKY	GVDLPMVTFL
hrv-22	ALDLNTSAGF	PYISMGIKKR	DLINNNTKDI	SKLKLALDKY	GVDLPMVTFL
dq473497-23	ALDLNTSAGF	PYITMGIKKR	DLINNKTkDI	SKLREALDKY	GVDLPMVTFL
hrv-24	ALDLNTSAGF	PYVTMGIKKR	DLINKQTRDI	TKLKMAMDKY	GVDLPMVTFL
ef173416-24	ALDLNTSAGF	PYVTMGIKKR	DLINKQTRDI	TKLKMAMDKY	GVDLPMVTFL
hrv-25	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDL	TKLKVALDKY	GVDLPMVTFL
dq473508-28	ALDLHTSAGY	PYTACGIKKK	DLIPKD.RNL	TKLKCAIEKY	GLDLPMITFL
hrv-29	ALDLNTSAGF	PYISMGIKKR	DLINKQTKDV	TKLKMALDKY	GVDLPMVTFL
dq473512-30	ALDLNTSAGF	PYITMGIKKR	DLINNRTKDI	SKLKEAIDKY	GVDLPMVTFL
hrv-30	ALDLNTSAGF	PYITMGIKKR	DLINNRTKDI	SKLKEAIDKY	GVDLPMVTFL
hrv-31	ALDLTTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKMALDKY	GVDLPMVTFL
hrv-32	ALDLNTSAGF	PYISMGIKKR	DLINNNTKDI	SKLKIALDKY	GVDLPMVTFL
hrv-33	ALDLNTSAGY	PYVTMGIKKK	DLIDNRAKDL	TKLKIAMDY	GVDLPMVTFL
hrv-34	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDI	SKLKLALDKY	GVDLPMVTFL
dq473501-34	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDI	SKLKLALDKY	GVDLPMVTFL
dq473505-36	ALDLNTSAGF	PYVSLGIKKK	DLIDKKTkDI	TKLKKAIDKY	GIDLPMVTFL

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hrv-38	ALDLNTSAGF	PYVSMGVKKR	DLINKQTKDV	TRLKAAMDKY	GVDLPMVTFL
dq473495-38	ALDLNTSAGF	PYVSMGVKKR	DLINKQTKDV	TRLKAAMDKY	GVDLPMVTFL
ay751783-39	ALDLNTSAGF	PYITMGIKKR	DLINNKTkDI	SRLKQAIDKY	GVDLPMVTFL
hrv-40	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKAALDKY	GVDLPMVTFL
dq473491-41	ALDLNTSAGF	PYISMGIKKR	DLINNSTKDI	TKLKIALDKY	GVDLPMVTFL
hrv-43	ALDLNTSAGF	PYISMGIKKR	DLINKNTRDI	SKLKAALDKY	GVDLPMVTFL
dq473499-44	ALDLNTSAGF	PYISMGIKKR	DLINKQTKDV	TKLKMALDKY	GVDLPMVTFL
hrv-45	ALDLNTSAGF	PYVALGIKKK	DLINRETRDV	SKIKNCLDTY	GVDLPMITYL
dq473506-46	ALDLHTSAGY	PYTAHGIKKK	DLIPKD.RNL	TKLKVAMEKY	GLDLPMITFL
hrv-47	ALDLTTSAGF	PYVSMGIKKR	DLINKQTRDI	TKLKMALDKY	GVDLPMVTFL
dq473496-49	ALDLNTSAGF	PYITMGIKKR	DLINNKTkDI	SKLREAIKDY	GVDLPMVTFL
hrv-49-f04	ALDLNTSAGF	PYITMGIKKR	DLINNKTkDI	SKLREAIKDY	GVDLPMVTFL
hrv-50	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDI	SKLKMALDKY	GVDLPMVTFL
hrv-51	ALDLHTSAGY	PYTACGIKKK	DLIPKD.RDL	TKFKQALEKY	GLDLPMITFL
dq473507-53	ALDLHTSAGY	PYTAHGIKKK	DLIPKD.KNL	TKLKIAMEKY	GLDLPMITFL
hrv-54	ALDLTTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKMALDKY	GVDLPMVTFL
hrv-54-f05	ALDLTTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKIALDKY	GVDLPMVTFL
dq473511-55	ALDLNTSAGF	PYVTMGIKKR	DLINKQTKDI	SKLKIALDKY	GVDLPMVTFL
hrv-56	ALDLNTSAGF	PYVSMGIKKK	DLINKQTKDL	TKLKIALDKY	GVDLPMVTFL
hrv-57	ALDLNTSAGF	PYVAMGIKKR	DLINKQTRDI	TKLKMALDKY	GVDLPMVTFL
hrv-58	ALDLNTSAGF	PYVSLGIKKK	DLIDKKTkDI	TKLKKAIDKY	GIDLPMVTFL
dq473500-59	ALDLNTSAGF	PYVAMGIKKK	DLIDNRTKDI	SKLKVALDKY	GVDLPMVTFL
hrv-60	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKMAMDKY	GVDLPMVTFL
hrv-61	ALDLNTSAGF	PYISMGIKKR	DLINNSTKDI	TKLKVALDKY	GVDLPMVTFL
hrv-62	ALDLNTSAGF	PYVSMGIKKR	DLINKQTRDL	TKLKVALDKY	GVDLPMVTFL
hrv-63	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKVALDKY	GVDLPMVTFL
hrv-64	ALDLNTSAGF	PYISMGIKKR	DLINNSTKDI	SKLKLALDKY	GVDLPMVTFL
ef173417-64	ALDLNTSAGF	PYISMGIKKR	DLINNSTKDI	SKLKLALDKY	GVDLPMVTFL
hrv-65	ALDLHTSAGY	PYTACGIKKK	DLIPKD.KNL	TKLKQAMEKY	GLDLPMITFL
hrv-66	ALDLNTSAGF	PYVTMGVKKR	DLINKQTKDV	TKLKAAMDKY	GVDLPMVTFL
hrv-67	ALDLNTSAGF	PYISMGIKKR	DLINNSTKDI	SKLKIALDKY	GVDLPMVTFL
hrv-68	ALDLHTSAGY	PYTACGIKKK	DLIPKD.RNL	TRLKCAIEKY	GLDLPMITFL
hrv-71	ALDLHTSAGY	PYTACGIKKK	DLIPKN.RDL	SKLKGAIEKY	GLDLPMITFL
dq473492-73	ALDLNTSAGF	PYISMGIKKR	DLINNSTKDI	TKLKLALDKY	GVDLPMVTFL
dq473494-74	ALDLNTSAGF	PYISMGIKKR	DLINNSTKDI	SKLKTALDKY	GVDLPMVTFL
dq473510-75	ALDLNTSAGF	PYISMGIKKR	DLINNNTKDL	SKLKAAMDKY	GVDLPMVTFL
dq473502-76	ALDLNTSAGY	PYVTMGIKKK	DLIDNRNKDL	TKLKIAMDKY	GVDLPMVTFL
hrv-76	ALDLNTSAGY	PYVTMGIKKK	DLIDNRNKDL	TKLKIAMDKY	GVDLPMVTFL
hrv-77	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKVALDKY	GVDLPMVTFL
hrv-78	ALDLHTSAGY	PYTTMGIKKK	DLINTKTkDV	TKLKEVMNKY	GVDLPMITFL
ef173418-78	ALDLHTSAGY	PYTTMGIKKK	DLINTKTkDV	TKLKEVMNKY	GVDLPMITFL
hrv-80	ALDLHTSAGY	PYTANGIKKK	DLIPKD.RDL	TKLKLAMEKY	GLDLPMITFL
hrv-81	ALDLNTSAGY	PYVALGIKKK	DLINNKTkDI	SKLKVALDKY	GVDLPMITFL
hrv-81-f06	ALDLNTSAGY	PYVSLGIKKR	DLINNKTkDI	SKLKVALDKY	GVDLPMITFL
hrv-81-f07	ALDLNTSAGY	PYVSLGIKKR	DLINNKTkDI	SKLKVALDKY	GVDLPMITFL
hrv-82	ALDLNTSAGF	PYISMGIKKR	DLIDKSTKDI	SKLKVALDKY	GVDLPMVTFL
dq473509-82	ALDLNTSAGF	PYISMGIKKR	DLIDKNTKDI	SKLKIALDKY	GVDLPMVTFL
hrv-85	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKMALDKY	GVDLPMVTFL
pico-85	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKMALDKY	GVDLPMVTFL
dq473504-88	ALDLSTSAGF	PYVSLGIKKK	DLIDKKTkDI	TKLKKAIDKY	GLDLPMVTFL
a10937-89	ALDLNTSAGF	PYVSLGIKKK	DLIDKKTkDI	TKLRKAIDKY	GIDLPMVTFL
hrv-89	ALDLNTSAGF	PYVSLGIKKK	DLIDKKTkDI	TKLRKAIDKY	GIDLPMVTFL
hrv-89-f08	ALDLNTSAGF	PYVSLGIKKK	DLIDKKTkDI	TKLRKAIDKY	GIDLPMVTFL
hrv-89-f09	ALDLNTSAGF	PYVSLGIKKK	DLIDKKTkDI	TKLRKAIDKY	GIDLPMVTFL
m16248-89	ALDLNTSAGF	PYVSLGIKKK	DLIDKKTkDI	TKLRKAIDKY	GIDLPMVTFL
hrv-90	ALDLNTSAGF	PYVTMGIKKR	DLINKQTKDI	TKLKMAMDKY	GVDLPMVTFL
hrv-94	ALDLNTSAGF	PYISMGIKKR	DLINNSTKDI	SKLKIALDKY	GVDLPMVTFL
ef173419-94	ALDLNTSAGF	PYISMGIKKR	DLINNSTKDI	SKLKIALDKY	GVDLPMVTFL

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hrv-95	ALDLNTSAGF	PYVALGIKKK	DIINKSTRDT	SKIKNCLDTY	GVDLPMITYL
hrv-96	ALDLNTSAGF	PYISMGIRKR	DLINNNTKDI	TKLKIALDKY	GVDLPMVTFL
hrv-98	ALDLTTSAGF	PYVSMGIKKR	DLINKQTKDI	TKLKIALDKY	GVDLPMVTFL
hrv-100	ALDLNTSAGF	PYVSMGIKKR	DLINKQTKDV	TKLKMALDKY	GVDLPMVTFL
ef186077-qpm	PLDLTTSAGF	PYVTMGVKKR	DILNRNTRDV	TKLQHMIDTY	GLDLPYVTYL
ef077279-nat001	PLDLTTSAGF	PYVTMGVKKR	DILNRNTKDV	TKLQHMIDTY	GLDLPYITYL
ny1078	PLDLTTSAGF	PYVTMGVKKR	DILNRITKDT	TKLQEMIDTY	GLDLPYITYL
ef582385-c024	PLDLTTSPGF	PYVSLGVKKK	DILNNATKDT	RKMQQMLDLY	GIDLPYITFL
ef077280-nat045	ALDLTTSAGF	PYVSKGIKKK	DILNKTTTRDT	TKLAKLMEEY	GIDLPYVTYL
ef582387-c026	PLDLTTSAGF	PYVTMGGIKKR	DILNRNTKDI	TKLQQMIDTY	GLDLPYVTYL
ef582386-c025	PLDLNTSAGY	PYVTLGVKKR	DILNRNTKDL	SKLQHMMDLY	GIDLPYITYL
dq473485-03	PIDVTTTSGY	PYVSLGIKKR	DILNKETQDV	EKMKFYLDKY	GIDLPLVTYI
ef173422-03	PIDVTTTSGY	PYVSLGIKKR	DILNKETQDV	EKMKFYLDKY	GIDLPLVTYI
dq473490-04	PIDLNTSAGY	PYVSLGINKK	SILNRETKEV	AKMQECLSKY	GIDLPLITYI
hrv-05	PIDLNTSAGY	PYVSLGIKKR	SILNKETKDT	SKMEECLSKY	GIDLPLVTYI
dq473486-06	PIDITTSAGY	PYVSLGIKKR	DILNRETQEV	EKMKFYLDKY	GIDLPLVTYI
l05355-14	PIDITTSAGF	PYVSLGIKKR	DILNKETQDT	EKMKFYLDKY	GIDLPLVTYI
k02121-14	PIDITTSAGF	PYVSLGIKKR	DILNKETQDT	EKMKFYLDKY	GIDLPLVTYI
ef173420-17	PIDINTSAGY	PYVSLGIKKR	DILNRDTQDI	AKMEHYLDKY	GIDLPLVTYI
hrv-26	PIDLNTSAGY	PYVSLGIKKR	AILNKDTKDT	SKMEECLSKY	GIDLPLVTYI
hrv-27	PIDLNTSAGY	PYVSLGIKKR	AILNKETQDT	TKMEECLSKY	GIDLPLVTYI
ef173421-27	PIDLNTSAGY	PYVSLGIKKR	AILNKETQDT	TKMEECLSKY	GIDLPLVTYI
dq473487-35	PIDVTTTSGY	PYVSLGIKKR	DILNRETQEV	EKMKFYLDKY	GIDLPLVTYI
hrv-35	PIDVTTTSGY	PYVSLGIKKR	DILNRETQEV	EKMKFYLDKY	GIDLPLVTYI
ef173423-37	PIDVTTTSGY	PYVSLGIKKR	DILNRETQET	EKMKFYLDKY	GIDLPLVTYI
hrv-42	PIDLNTSAGY	PYVSLGIKKR	SILNKETKDT	TKMEECLSKY	GIDLPLVTYI
dq473488-48	PIDVNTSAGY	PYVSLGIRKR	DILNKETQDT	IKMEHYLDKY	GIDLPLVTYI
hrv-52	PIDINTSAGY	PYVSLGIKKK	DILNRETQDT	SKMEHYLDKY	GIDLPLVTYI
hrv-52-f10	PIDINTSAGY	PYVSLGIKKK	DILNRETQDT	SKMEHYLDKY	GIDLPLVTYI
ef173424-52	PIDINXSAGY	PYVSLGIKKK	DILNRETQDT	SKMEHYLDKY	GIDLPLVTYI
hrv-69	PIDINTSAGY	PYVSLGIKKK	DILNRETQDT	SKMEHYLDKY	GIDLPLVTYI
dq473489-70	PIDINTSAGY	PYVSLGIKKR	DILNRDTQDV	TKMEHYLDKY	GIDLPLVTYI
hrv-72	PIDVTTTSGY	PYVSLGIKKR	DIINKETKDV	EKMKYLDKY	GIDLPLVTYI
hrv-79	PIDVTTTSGY	PYVSLGIKKR	DILNKETQDT	EKMKFYLDKY	GIDLPLVTYI
hrv-83	PIDITTSAGY	PYVSLGIKKR	DILNKETQEV	EKMKFYLDKY	GIDLPLVTYI
hrv-84	PIDLNTSAGY	PYVGLGIKKR	SILNKETQDT	TKMQECLSKY	GIDLPLITYI
hrv-86	PLDITTSAGY	PYVSLGIKKR	DILNRETQDX	TKMQAYLDKY	GIDLPLVTYI
hrv-91	PIDINTSAGY	PYVSLGIKKR	DILNKDTQDV	AKMEHYLDKY	GIDLPLVTYI
hrv-92	PIDITTSAGY	PYVSLGIKKR	DILNKETQET	EKMKFYLDKY	GIDLPLVTYI
ef173425-93	PIDLNTSAGY	PYVSLGIKKR	SILNKETQDT	TKMEECLDKY	GIDLPLVTYI
hrv-97	PIDLNTSAGY	PYVSLGIKKR	SILNKETKDT	AKMEECLSKY	GIDLPLVTYI
hrv-99	PIDLNTSAGY	PYVNLGIKKR	SILNKETKDT	TKMEECLSKY	GIDLPLVTYI

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annotation	HHHHH	HH....BBBB	.HHHHHHHHH	HHHHHHHHHH	HH.....
af499637-cva13	KDELRKTKV	EQGKSRLIEA	SSLNDSVAMR	MAFGNLYAAF	HKNPGVVTGS
af546702-cva21	KDELRKTKV	EQGKSRLIEA	SSLNDSVAMR	MAFGNLYAAF	HKNPGVVTGS
v01149-pv1m	KDELRKTKV	EQGKSRLIEA	SSLNDSVAMR	MAFGNLYAAF	HKNPGVITGS
d00239-01	KDELRKKEKI	SAGKTRVIEA	SSINDTILFR	TTFGNLF SKF	HLNPGVVTGS
pico-01	KDELRKKEKI	STGKTRVIEA	SSINDTILFR	TTFGNLF SKF	HLNPGVVTGS
hrv-01	KDELRKKEKI	STGKTRVIEA	SSINDTILFR	TTFGNLF SKF	HLNPGVVTGS
x02316-02	KDELRKHEKV	IKGKTRVIEA	SSVNDTLLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-07	KDELRKKEKI	KEGKTRVIEA	NSVNDTVVFR	STFGNLF STF	HKNPGIVTGS
dq473503-07	KDELRKKEKI	KEGKTRVIEA	NSVNDTVVFR	STFGNLF STF	HKNPGIVTGS
hrv-08	KDELRKKEKI	KMGKTRVIEA	SSLNDTVHMR	MLFGNLFKAF	HANPGIITGC
pico-09	KDELRKKEKI	SSGKTRVIEA	SSINDTVTFR	MTYGNLFACF	HKNPGIVTGS
hrv-09	KDELRKKEKI	SSGKTRVIEA	SSINDTVAFR	MTYGNLFACF	HKNPGIITGS
hrv-09-f01	KDELRKKEKI	SSGKTRVIEA	SSVNDTVAFR	MTYGNLFACF	HKNPGIVTGS

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hrv-09-f02	KDEL RKKEKI	SSGKTRVIEA	SSVNDTVAFR	MTYGNLFACF	HKNPGIVTGS
dq473498-10	KDEL RKREKI	TAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-10	KDEL RKREKI	TAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
ef173414-11	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	SIYGNLF SKF	HLNPGVVTGS
ef173415-12	KDEL RKPEKI	KAGKTRVIEA	SSINDTIHFR	MKFGNLFSSF	HLNPGIVTGS
hrv-13	KDEL RKKEKI	STGKTRVIEA	SSVNDTIAFR	VVYGNLFSTF	HKNPGVVTGS
hrv-13-f03	KDEL RKKEKI	STGKTRVIEA	SSVNDTIAFR	VVYGNLFSSF	HKNPGVVTGS
dq473493-15	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVTFR	MVYGNLFSTF	HKNPGIITGS
l24917-16	KDEL RKDKI	AAGKTRVIEA	SSINDTILFR	TVYGNLF SKF	HLNPGVVTGC
hrv-18	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-19	KDEL RKKEKI	SAGKTRVIEA	SSINDTVAFR	IVYGKLFAAF	HKNPGVVTGS
hrv-20	KDEL RKPEKI	KTGKTRIEA	SSLNDTVQFR	MAFGNLF SKF	HQNP GIITGS
hrv-21	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-22	KDEL RKKEKI	AAGKTRVIEA	SSVNDTVAFR	MVYGNLFSAF	HKNPGIVTGS
dq473497-23	KDEL RKQEKI	IKGKTRVIEA	SSVNDTLLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-24	KDEL RKREKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
ef173416-24	KDEL RKREKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-25	KDEL RKKEKI	RAGKTRVIEA	SSVNDTILFR	TTFGNLF SKF	HLNPGIITGS
dq473508-28	KDEL RKPEKI	KTGKTRIEA	SSLNDTVQFR	MAFGNLF SKF	HQNP GIVTGS
hrv-29	KDEL RKREKI	CAGKTRVIEA	SSVNDTILFR	TTFGNLF SKF	HLNPGVVTGS
dq473512-30	KDEL RKPEKI	SKGKTRVIEA	SSVNDTLLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-30	KDEL RKPEKI	SKGKTRVIEA	SSVNDTLLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-31	KDEL RKKEKI	ATGKTRVIEA	SSVNDTILFR	TTFGNLF SKF	HLNPGIVTGS
hrv-32	KDEL RKKEKI	PSGKTRVIEA	SSVNDTIAFR	MTYGNLFACF	HKNPGVVTGS
hrv-33	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	SVYGNLF SKF	HLNPGIITGS
hrv-34	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
dq473501-34	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
dq473505-36	KDEL RKKEKI	RDGKTRVIEA	NSVNDTVLFR	SVYGNLFSAF	HRNPGIVTGS
hrv-38	KDEL RKQEKI	SAGKTRVIEA	SSVNDTVMFR	TTFGNLF SKF	HLNPGIVTGS
dq473495-38	KDEL RKQEKI	SAGKTRVIEA	SSVSDTVMFR	TNFGNLF SKF	HLNPGIVTGS
ay751783-39	KDEL RKEEKI	AKGKTRVIEA	SSVNDTLLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-40	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	ATFGNLF SKF	HLNPGIVTGS
dq473491-41	KDEL RKKEKI	AAGKTRVIEA	SSVNDTIAFR	VTYGNLFSTF	HRNPGIITGS
hrv-43	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVAFR	MIYGNLFAAF	HKNPGIVTGS
dq473499-44	KDEL RKREKI	CDGKTRVIEA	SSVNDTILFR	TTFGNLF SKF	HLNPGVVTGS
hrv-45	KDEL RTPEKI	KLKGKTRVIEA	SSLNDTIHMR	MLFGNLFKAF	HANPGIVTGC
dq473506-46	KDEL RKPEKI	SAGKTRIEA	SSLNDTVQFR	MAFGNLF SKF	HKNPGIVTGS
hrv-47	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
dq473496-49	KDEL RKHEKI	IKGKTRVIEA	SSVNDTLLFR	TTFGNLF SKF	HLNPGIITGS
hrv-49-f04	KDEL RKHEKI	IKGKTRVIEA	SSVNDTLLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-50	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-51	KDEL RKPEKI	LAGKTRIEA	SSLNDTVQFR	MAFGRLFSAF	HQNP GIVTGS
dq473507-53	KDEL RKPEKI	SAGKTRIEA	SSLNDTVQFR	MAFGNLF SKF	HKNPGIVTGS
hrv-54	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-54-f05	KDEL RKKEKI	HTGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
dq473511-55	KDEL RKDKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGVVTGS
hrv-56	KDEL RKKEKI	AAGKTRVIEA	SSVNDTILFR	TTFGNLF SKF	HLNPGIVTGS
hrv-57	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-58	KDEL RKKEKI	RDGKTRVIEA	NSVNDTVLFR	SVYGNLFSTF	HKNPGIVTGS
dq473500-59	KDEL RKDKI	RAGKTRVIEA	SSINDTLLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-60	KDEL RKQEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-61	KDEL RKKGKI	MAGKTRVIEA	SSINDTVAFR	MTYGKL FSSF	HKNPGIITGS
hrv-62	KDEL RKKEKI	CAGKTRVIEA	SSVNDTILFR	TTFGNLF SKF	HLNPGIITGS
hrv-63	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNPGIVTGS
hrv-64	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVAFR	MVYGNLFAAF	HKNPGIITGS
ef173417-64	KDEL RKKEKI	SAGKTRVIEA	SSVNDTVAFR	MVYGNLFAAF	HKNPGIITGS
hrv-65	KDEL RPKDKI	YTGKTRIEA	SSLNDTVQFR	MAFGRL FSSF	HQNP GIITGS
hrv-66	KDEL RKKEKI	SAGKTRVIEA	SSVNDTILFR	MTFGNLF SKF	HLNPGVVTGS

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hrv-67	KDELRRKKEKI	SSGKTRVIEA	SSINDTITFR	MTYGNLFSCF	HKNPGVVTGS
hrv-68	KDELRRKPEKI	KTGKTRIIIEA	SSLNDTIQFR	MAFGNLF SKF	HQNP GIVTGS
hrv-71	KDELRRKPEKI	NTGKTRIVEA	SSLNDTVQFR	MAFGRLFSVF	HQNP GII TGS
dq473492-73	KDELRRKKEKI	STGKTRVIEA	SSVNDTIAFR	VVYGNLFSTF	HKNPGVVTGS
dq473494-74	KDELRRKKEKI	SAGKTRVIEA	SSINDTVTFR	MVYGNLFTNF	HKNPGVVTGS
dq473510-75	KDELRRKKEKI	SAGKTRVIEA	SSINDTIIFR	QTYGNLFAAF	HKNP GII TGS
dq473502-76	KDELRRKKEKI	SAGKTRVIEA	SSVNDTVLFR	SVYGNLF SKF	HLNP GII TGS
hrv-76	KDELRRKKEKI	SAGKTRVIEA	SSVNDTVLFR	SVYGNLF SKF	HLNP GII TGS
hrv-77	KDELRRKKEKI	SAGKTRVIEA	SSINDTVLFR	STFGNLF SKF	HLNP GII TGS
hrv-78	KDELRRKKDKI	VAGKTRVIEA	SSINDTVQFR	MTFGRLFQAF	HNNP GIVTGS
ef173418-78	KDELRRKKDKI	VAGKTRVIEA	SSINDTVQFR	MTFGRLFQAF	HNNP GIVTGS
hrv-80	KDELRRKPEKI	REGKTRIIIEA	SSLNDTVHFR	VTFGNLF SKF	HQNP GIVTGS
hrv-81	KDELRRKKDKI	PVGKTRVIEA	SSINDTVLFR	TTYGNLF SKF	HLNP GIVTGC
hrv-81-f06	KDELRRKKDKI	SAGKTRVIEA	SSINDTILFR	TTYGNLF SKF	HLNP GIVTGC
hrv-81-f07	KDELRRKKDKI	SAGKTRVIEA	SSINDTILFR	TTYGNLF SKF	HLNP GIVTGC
hrv-82	KDELRRKKEKI	SSGKTRVIEA	SSVNDTVAFR	MVYGNLFAAF	HKNP GIVTGS
dq473509-82	KDELRRKKEKI	SSGKTRVIEA	SSVNDTVAFR	MVYGNLFAAF	HKNP GIVTGS
hrv-85	KDELRRKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNP GIVTGS
pico-85	KDELRRKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNP GIVTGS
dq473504-88	KDELRRRKEKI	KDGKTRVIEA	NSVNDTVIFR	SVFGNLF SAF	HKNP GIVTGS
a10937-89	KDELRRKKEKI	KDGKTRVIEA	NSVNDTVLFR	SVFGNLF SAF	HKNP GIVTGS
hrv-89	KDELRRKKEKI	KDGKTRVIEA	NSVNDTVLFR	SVFGNLF SAF	HKNP GIVTGS
hrv-89-f08	KDELRRKKEKI	KDGKTRVIEA	NSVNDTVLFR	SVFGNLF SAF	HKNP GIVTGS
hrv-89-f09	KDELRRKKEKI	KDGKTRVIEA	NSVNDTVLFR	SVFGNLF SAF	HKNP GIVTGS
m16248-89	KDELRRKKEKI	KDGKTRVIEA	NSVNDTVLFR	SVFGNLF SAF	HKNP GIVTGS
hrv-90	KDELRRKKEKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNP GIVTGS
hrv-94	KDELRRKKXKI	STGKTRVIEA	SSVNDTVAFR	MVYGNLF SAF	HRNP GIVTGS
ef173419-94	KDELRRKKGKI	STGKTRVIEA	SSVNDTVAFR	MVYGNLF SAF	HRNP GIVTGS
hrv-95	KDELRAPEKV	KMGKTRVIEA	SSLNDTVHMR	MLFGNLF KAF	HANP GII TGC
hrv-96	KDELRRKKEKI	SAGKTRVIEA	SSINDTVAFR	MVYGNLF STF	HKNP GII TGS
hrv-98	KDELRRKREKI	SAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNP GIVTGS
hrv-100	KDELRRKKEKI	RAGKTRVIEA	SSVNDTVLFR	TTFGNLF SKF	HLNP GIVTGS
ef186077-qpm	KDELRAPAKV	KAGKTRAIEA	ASMNDTANFR	RVFGNLYAGF	HANP GII TGS
ef077279-nat001	KDELRAPAKI	KAGKTRAIEA	ASMNDTANFR	RVFGNLYAGF	HANP GII TGS
ny1078	KDELRRSPAKI	KAGKTRAIEA	ASMNDTANFR	RVFGNLYASF	HANP GIVTGS
ef582385-c024	KDELRAPEKI	KAGKTRIVEA	ASVNDTVYFR	TTFGNLYSTF	HANP GII TGS
ef077280-nat045	KDELRTPEKI	KAGKTRLIEA	ASLNDTVHYR	MVFGNLF STL	HANP GII TGS
ef582387-c026	KDELRAPTKV	KAGKTRAIEA	ASMNDTANFR	RVFGNLYAGF	HANP GII TGS
ef582386-c025	KDELRAPEKI	RCGKTRCIEA	ASMNDTVYFR	MVFGNLYGAF	HKNP GIVTGS
dq473485-03	KDELRSVDKV	RLGKSRLIEA	SSLNDSVNMR	MKLGNLYKAF	HQNP GII TGS
ef173422-03	KDELRSVDKV	RLGKSRLIEA	SSLNDSVNMR	MKLGNLYKAF	HQNP GII TGS
dq473490-04	KDELRGKDKV	RLGKSRLIEA	SSLNDSVNMR	VKLGNLYKAF	HKNP GIVTGS
hrv-05	KDELRGKDKI	RLGKSRLIEA	SSLNDSVNMR	VKLGNLYKAF	HKNP GII TGS
dq473486-06	KDELIRSTDKV	RLGKSRLIEA	SSLNDSVNMR	MKLGNLYKAF	HQNP GII TGS
l05355-14	KDELRSVDKV	RLGKSRLIEA	SSLNDSVNMR	MKLGNLYKAF	HQNP GIVTGS
k02121-14	KDELRSVDKV	RLGKSRLIEA	SSLNDSVNMR	MKLGNLYKAF	HQNP GIVTGS
ef173420-17	KDELRSKDKV	RLGKSRLIEA	SSLNDSVNMR	VKLGNLYKAF	HTNP GIVTGS
hrv-26	KDELRGKDKI	RLGKSRLIEA	SSLNDSVNMR	VKLGNLYKAF	HKNP GII TGS
hrv-27	KDELRRGRDKV	RLGKSRLIEA	SSLNDSVNMR	VKLGEYKAF	HKNP GII TGS
ef173421-27	KDELRRGRDKV	RLGKSRLIEA	SSLNDSVNMR	VKLGEYKAF	HKNP GII TGS
dq473487-35	KDELRSVDKV	RLGKSRLIEA	SSLNDSVNMR	MKLGNLYKAF	HKNP GII TGS
hrv-35	KDELRSVDKV	RLGKSRLIEA	SSLNDSVNMR	MKLGNLYKAF	HKNP GII TGS
ef173423-37	KDELIRSTDKV	RLGKSRLIEA	SSLNDSVNMR	MKLGNLYKAF	HQNP GIVTGS
hrv-42	KDELRGKDKI	RLGKSRLIEA	SSLNDSVNMR	IKLGNLYKAF	HKNP GII TGS
dq473488-48	KDELRGKDKV	RLGKSRLIEA	SSLNDSVNMR	VKLGNLYKAF	HLNP GIVTGS
hrv-52	KDELRRGRDKV	RLGKSRLIEA	SSLNDSVNMR	VKLGNLYKAF	HSNP GIVTGS
hrv-52-f10	KDELRGKDKV	RLGKSRLIEA	SSLNDSVNMR	VKLGNLYKAF	HLNP GIVTGS
ef173424-52	KDELRRGRDKV	RLGKSRLIEA	SSLNDSVNMR	VKLGNLYKAF	HSNP GIVTGS

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hrv-69	KDELRGKDKV	RLGKSRLIEA	SSLNDSVNMR	VKLG NLYKAF	HLNPGVITGS
dq473489-70	KDELRSKDKV	RLGKSRLIEA	SSLNDSVNMR	VKLG NLYKAF	HTNPGVITGS
hrv-72	KDELIRSTDKV	RLGKSRLIEA	SSLNDSVNMR	MKLG NLYKAF	HQNP GTITGS
hrv-79	KDELRSSDKV	RLGKSRLIEA	SSLNDSVNMR	MKLG HLYKAF	HQNP GVITGS
hrv-83	KDELRSADKV	RLGKSRLIEA	SSLNDSVNMR	MKLG HLYKTF	HQNP GVITGS
hrv-84	KDELRGKVKI	RLGKSRLIEA	SSLNDSVNMR	VKLG HLYKAF	HKNP GTLTGS
hrv-86	KDELRSVDKV	RLGKSRLIEA	SSLNDSVNMR	MKLG SLYKTF	HQNP GIITGS
hrv-91	KDELRSKDKI	RLGKSRLIEA	SSLNDSVNMR	VKLG NLYKAF	HTNPGVITGS
hrv-92	KDELRSADKV	RLGKSRLIEA	SSLNDSVNMR	MKLG HLYKTF	HQNP GVITGS
ef173425-93	KDELRGKDKV	RLGKSRLIEA	SSLNDSVNMR	VKLG ELYKAF	HKNP GIMTGS
hrv-97	KDELRGKDKV	RLGKSRLIEA	SSLNDSVNMR	VKLG ELYKAF	HKNP GILTGS
hrv-99	KDELRSKDKI	RLGKSRLIEA	SSLNDSVNMR	VKLG NLYKAF	HLNPGILTGS
2001					
annotation	HHHHHH	.HHHHHH..B	.BB.BB..HH	HHHHHHHHHHH	HHHHHHHHHH.
af499637-cva13	AVGCDPDLFW	SKIPVLMEEK	.LFAFDYTG	DASLSPAWFE	ALKMVLEKIG
af546702-cva21	AVGCDPDLFW	SKIPVLMEEK	.LFAFDYTG	DASLSPAWFE	ALKMVLEKIG
v01149-pv1m	AVGCDPDLFW	SKIPVLMEEK	.LFAFDYTG	DASLSPAWFE	ALKMVLEKIG
d00239-01	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKKVLENLS
pico-01	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKKVLENLS
hrv-01	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKKVLENLS
x02316-02	AVGCDPEVFW	SKIPAMLDLDDK	CIMAFDYTN	DGSIHPVWFQ	ALKQVLVDLS
hrv-07	AVGCDPEVFW	STIPLMLXGE	CLMAFDYSNY	DGSLHPVWFQ	CLKMLLEDIG
dq473503-07	AVGCDPEVFW	STIPLMLDGE	CLMAFDYSNY	DGSLHPVWFQ	CLKMLLEDIG
hrv-08	AVGCDPEVFW	SKIPPMLDGD	SVMAFDYTN	DGSLHPVWFQ	MLEVVLDRLG
pico-09	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEILKELK
hrv-09	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEILKELK
hrv-09-f01	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEILKELK
hrv-09-f02	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEILKELK
dq473498-10	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLS
hrv-10	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLS
ef173414-11	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLS
ef173415-12	AVGCDPDVFW	SKIPLMLDGD	CLMAFDYSNY	DGSLSPVWFQ	ALEKVLNNLG
hrv-13	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKQVLINLS
hrv-13-f03	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKQVLRLNS
dq473493-15	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKMILTNLH
l24917-16	AVGCDPETFW	SKIPLMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALGMVLDNLS
hrv-18	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
hrv-19	AVGCDPEVFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKMILENLQ
hrv-20	AVGCDPEVFW	SKIPVMLDGD	CLMAFDYTN	DGSLNPVWFQ	LLSIVLNDLG
hrv-21	AVGCDPEVFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKQVLTNLS
hrv-22	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKMILHNLE
dq473497-23	AVGCDPETFW	SKIPAMLDLDDK	CIMAFDYTN	DGSIHPVWFQ	ALKQVLTDLS
hrv-24	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
ef173416-24	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
hrv-25	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLINLS
dq473508-28	AVGCDPEVFW	SKVPVMLDGE	CLMAFDYTN	DGSLNPVWFQ	LLNKVLTDLG
hrv-29	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLANLS
dq473512-30	AVGCDPETFW	SKIPAMLDLDDK	CIMAFDYTN	DGSIHPVWFQ	ALKLVLSNLS
hrv-30	AVGCDPETFW	SKIPAMLDLDDK	CIMAFDYTN	DGSIHPVWFQ	ALKLVLSNLS
hrv-31	AVGCDPETFW	SKIPVMLNGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
hrv-32	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKEILKDLQ
hrv-33	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKLVLANLS
hrv-34	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKEVLGNLS
dq473501-34	AVDCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKEVLGNLS
dq473505-36	AVGCDPEIFW	STIPLMLDGE	CLMAFDYSNY	DGSLHPVWFQ	CLSMLLEDIG
hrv-38	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
dq473495-38	AVGCDPETFW	TKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG

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ay751783-39	AVGCDPETFW	SKIPAMLDK	CIMAFDYTN	DGSIHPVWFQ	ALKQVLSDL
hrv-40	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKAVLSNLG
dq473491-41	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKQVLNLS
hrv-43	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKSVLENLQ
dq473499-44	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLNLS
hrv-45	AVGCDPETFW	SKIPPMLGDG	CVMAFDYTN	DGSLHPVWFR	LLERVLDRLG
dq473506-46	AVGCDPEIFW	SKIPVMLDGD	CLMAFDYSNY	DGSLNPVWFE	LLEKVLNDLG
hrv-47	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKEVLSNLG
dq473496-49	AVGCDPETFW	SKIPAMLDK	CIMAFDYTN	DGSIHPVWFE	ALKQVLMDS
hrv-49-f04	AVGCDPEIFW	SKIPAMLDK	CIMAFDYTN	DGSIHPVWFE	ALKQVLMDS
hrv-50	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLNLS
hrv-51	AVGCDPEVFW	SKIPVMLDGE	CLMAFDYSNY	DGSLNPVWFE	LLAKVLDDL
dq473507-53	AVGCDPEVFW	SKIPVMLDGD	CLMAFDYSNY	DGSLNPVWFE	LLERVLDRLG
hrv-54	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
hrv-54-f05	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
dq473511-55	AVGCDPEVFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKEVLNLS
hrv-56	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNL
hrv-57	AVGCDPEVFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFQ	ALKEVLNLS
hrv-58	AVGCDPEVFW	STIPLMLDGE	CLMAFDYSNY	DGSLHPVWFK	CLSMLLEDIG
dq473500-59	GVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKVLNLS
hrv-60	AVGCDPEIFW	SKIPAMLDGE	CLMAFDYSNY	DGSIHPVWFQ	ALKEVLSNLG
hrv-61	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKQVLNLS
hrv-62	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLNLS
hrv-63	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNL
hrv-64	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKMILHNL
ef173417-64	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKMILHNL
hrv-65	AVGCDPETFW	SKIPVMLDGE	CLMAFDYSNY	DGSLNPVWFK	LLAQILENLG
hrv-66	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNL
hrv-67	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFD	ALKEVLKDLQ
hrv-68	AVGCDPEVFW	SKVPVMLDGE	CLMAFDYSNY	DGSLNPVWFK	LLNRVLTELG
hrv-71	AVGCDPEVFW	SKIPVMLDGE	CLMAFDYSNY	DGSLNPVWFK	LLAGILSDLG
dq473492-73	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKQVLNLS
dq473494-74	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFE	ALKMVLNLS
dq473510-75	AVGCDPETFW	SKIPVMLDGD	CIMAFDYTN	DGSIHPVWFE	ALKQVLNLS
dq473502-76	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFD	ALKVLNLS
hrv-76	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFD	ALKVLNLS
hrv-77	AVGCDPETFW	SKIPAMLDDE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
hrv-78	AVGCDPDTFW	SKIPLMLDGE	CLMAFDYSNY	DGSLNPVWFK	ALKEVLQNLG
ef173418-78	AVGCDPDTFW	SKIPLMLDGE	CLMAFDYSNY	DGSLNPVWFK	ALKEVLQNLG
hrv-80	AVGCDPETFW	SKIPVMLDGD	CLMAFDYSNY	DGSLNPVWFK	LLEGVLNELG
hrv-81	AVGCDPETFW	SKIPLMLDGD	CIMAFDYTN	DGSIHPVWFK	ALRMVLDNL
hrv-81-f06	AVGCDPETFW	SKIPLMLDGD	CIMAFDYTN	DGSIHPVWFK	ALRMVLDNL
hrv-81-f07	AVGCDPETFW	SKIPLMLDGD	CIMAFDYTN	DGSIHPVWFK	ALRMVLDNL
hrv-82	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKMVLNLS
dq473509-82	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKMVLNLS
hrv-85	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
pico-85	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
dq473504-88	AVGCDPEVFW	STIPLMLDGE	CLMAFDYSNY	DGSLNPVWFK	CLKMLLEDIG
a10937-89	AVGCDPEVFW	STIPLMLDGE	CLMAFDYSNY	DGSLHPVWFK	CLSMLLEDIG
hrv-89	AVGCDPEVFW	STIPLMLDGE	CLMAFDYSNY	DGSLHPVWFK	CLSMLLEDIG
hrv-89-f08	AVGCDPEVFW	STIPLMLDGE	CLMAFDYSNY	DGSLHPVWFK	CLSMLLEDIG
hrv-89-f09	AVGCDPEVFW	STIPLMLDGE	CLMAFDYSNY	DGSLHPVWFK	CLSMLLEDIG
m16248-89	AVGCDPEVFW	STIPLMLDGE	CLMAFDYSNY	DGSLHPVWFK	CLSMLLEDIG
hrv-90	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLNLS
hrv-94	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKMILHNL
ef173419-94	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKMILHNL
hrv-95	AVGCDPEVFW	SKIPPMLGDG	SVMAFDYTN	DGSLHPVWFK	MLEVLDRLG
hrv-96	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFE	ALKQVLLNS

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hrv-98	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLSNLG
hrv-100	AVGCDPETFW	SKIPVMLDGE	CIMAFDYTN	DGSIHPVWFQ	ALKEVLTNLS
ef186077-qpm	AIGCDPDIFW	SQLYASMEKH	.LLVFDYTN	DGSLHPVWFQ	ALEQLLNNLG
ef077279-nat001	AIGCDPDIFW	SQLYASMEKH	.LLVFDYTN	DGSLHPVWFQ	ALEQLLNNLG
ny1078	AIGCDPDIFW	SQLYSSMEKH	.LLVFDYTN	DGSLHPVWFQ	ALEQLLNNLG
ef582385-c024	AVGCNPVDFW	SQMHAMLDGE	.LIAFDYTN	DGSLEPVWFK	ALGKVL DQLG
ef077280-nat045	AVGCDPDIFW	SQLHASLGGH	.LLAFDYTN	DGSLHPVWFL	CLEKVL TNLG
ef582387-c026	AIGCDPDVFW	SQLYASMEKH	.LLVFDYTN	DGSLHPVWFQ	ALEQLLNNLG
ef582386-c025	AVGCDPDVFW	SQMKATMG	.LIAFDYTN	DGSLDPVWFD	ALKIVL NELG
dq473485-03	AVGCDPDVFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFE	CLEKVL NKLK
ef173422-03	AVGCDPDVFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFE	CLEKVL NKLK
dq473490-04	AVGCDPDTFW	SVIPCLLDGE	.LIAFDYSNF	DASLSPVWFN	CLEIVLEKLG
hrv-05	AVGCDPDTFW	SVIPCLLDGE	.LIAFDYSNF	DASLSPVWFK	CLEQVL KKG
dq473486-06	AVGCDPDVFW	SIIPCLMDGH	.LMAFDYSNF	DASLSPVWFE	CLERVL AKLG
l05355-14	AVGCDPDVFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFV	CLEKVL TKLG
k02121-14	AVGCDPDVFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFV	CLEKVL TKLG
ef173420-17	AVGCDPDTFW	SIIPCLMDGQ	.LMAFDYSNF	DASLSPVWFK	CLEQVL SKLG
hrv-26	AVGCDPDTFW	SVIPCLLDGE	.LIAFDYSNF	DASLSPVWFK	CLENVL RKIG
hrv-27	AVGCDPDTFW	SIIPNLLDGE	.LLAFDYSNF	DASLSPVWFD	CLELVL RKLG
ef173421-27	AVGCDPDTFW	SIIPNLLDGE	.LLAFDYSNF	DASLSPVWFD	CLELVL RKLG
dq473487-35	AVGCDPDTFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFT	CLERVLLKLG
hrv-35	AVGCDPDTFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFT	CLERVLLKLG
ef173423-37	AVGCDPDTFW	SIIPCLMDGH	.LMAFDYSNF	DASLSPVWFE	CLEKVL IKLG
hrv-42	AVGCDPDTFW	SVIPCLLDGE	.LIAFDYSNF	DASLSPVWFE	CLEQVL KKG
dq473488-48	AVGCDPDTFW	SVIPCLMDGQ	.LMAFDYSNF	DASLSPVWFN	CLEQVL IKLG
hrv-52	AVGCDPDTFW	SVIPCLMDGQ	.LMAFDYSNF	DASLSPVWFR	CLEQVL AKLG
hrv-52-f10	AVGCDPDTFW	SVIPCLMDGQ	.LMAFDYSNF	DASLSPVWFK	CLEQVL AKLG
ef173424-52	AVGCDPDTFW	SVIPCLMDGQ	.LMAFDYSNF	DASLSPVWFR	CLEQVL AKLG
hrv-69	AVGCDPDTFW	SVIPCLMDGQ	.LMAFDYSNF	DASLSPVWFK	CLEQVL TKLG
dq473489-70	AVGCDPDTFW	SIIPCLMDGQ	.LMAFDYSNF	DASLSPVWFK	CLEQVL SRLG
hrv-72	AVGCDPDVFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFV	CLEKVL YKLG
hrv-79	AVGCDPDVFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFE	CLEKVL EKLK
hrv-83	AVGCDPDVFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFE	CLERVLEKIG
hrv-84	AVGCDPDVFW	SVIPCLLDGE	.LLAFDYSNF	DASLSPVWFD	CLELVL RKIG
hrv-86	AVGCDPDVFW	SVIPCLMEGH	.LMAFDYSNF	DASLSPVWFD	CLEKVL EKLK
hrv-91	AVGCDPDTFW	SIIPCLMDGQ	.LMAFDYSNF	DASLSPVWFK	CLEQVL SKLG
hrv-92	AVGCDPDVFW	SVIPCLMDGH	.LMAFDYSNF	DASLSPVWFE	CLERVLSKIG
ef173425-93	AVGCDPDTFW	SIIPSLLDGE	.LLAFDYSNF	DASLSPVWFE	CLELVL RKLG
hrv-97	AVGCDPDTFW	SVIPSLLDGE	.LLAFDYSNF	DASLSPVWFD	CLEMVL KKLK
hrv-99	AVGCDPDTFW	SIIPCLLDGE	.LIAFDYSNF	DASLSPVWFE	CLEKVL SKIG

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annotation	HHHHHHHHHH	HHHBBBBB..	BBBBBB....	HHHHHH	HHHHHHHHHH
af499637-cva13	FGDRVDYIDY	LNHSHHLYKN	KTYCVKGGMP	SGCSGTSIFN	SMINNLIIRT
af546702-cva21	FGSRVDYIDY	LNHSHHLYKN	KTYCVKGGMP	SGCSGTSIFN	SMINNLIIRT
v01149-pv1m	FGDRVDYIDY	LNHSHHLYKN	KTYCVKGGMP	SGCSGTSIFN	SMINNLIIRT
d00239-01	FQ..SNLIDR	LCYSKHLFKS	TYEVEAGGVP	SGCSGTSIFN	TMINNIIIRT
pico-01	FQ..SNLIDR	LCYSKHLFKS	TYEVEAGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-01	FQ..SNLIDR	LCYSKHLFKS	TYEVEAGGVP	SGCSGTSIFN	TMINNIIIRT
x02316-02	FN..PTLIDR	LCKSKHIFKN	TYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-07	FS..SQLIDQ	ICNSKHIIYKS	KYYEVEGGMP	SGCAGTSIFN	TMINNIIIRV
dq473503-07	FS..SQLIDQ	ICNSKHIIYKS	KYYEVEGGMP	SGCAGTSIFN	TMINNIIIRV
hrv-08	FP..GCAIRK	LSHSAHIYKG	TYEVDGGMP	SGCAGTSIFN	SMINNIIIRT
pico-09	FE..HRLIDR	LCNSRHIFKD	SYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-09	FE..HRLIDR	LCNSRHIFRD	SYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-09-f01	FE..HRLIDR	LCNSRHIFRD	TYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-09-f02	FE..HRLIDR	LCNSRHIFRD	TYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
dq473498-10	FE..ASLIDR	LCKSKHIFKN	MYEVEGGVP	SGCSGTSIFN	TMINNIIIRT

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hrv-10	FE..ASLIDR	LCKSKHIFKN	MYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
ef173414-11	FR..TDLIDR	LCKSKHIFKG	TYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
ef173415-12	FP..GHLVQN	LCSSKHIFRS	KYYEVDGGMP	SGCSGTSIFN	SMINNIIIRT
hrv-13	FE..DKLIDR	LCRSKHIFRD	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-13-f03	FE..DKLIDR	LCKSKHIFRD	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
dq473493-15	FE..PSLIDR	LCNSKHIFKD	TYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
l24917-16	FN..PTLINR	LCNSKHIFKS	TYEEVEGGVP	SGCSGTSIFN	SMINNIIIRT
hrv-18	FN..PNLIDR	LCKSKHIFKN	IYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-19	FE..PKLIDR	LCNSKHIIYRD	SYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-20	FP..GELVKN	LCNSKHIIYKT	TYEEVEGGMP	SGCAGTSIFN	TIINNIIIRT
hrv-21	FE..ASLIDR	LCKSKHIFKN	IYYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-22	FE..PKLIDR	LCNSKHIIYRD	SYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
dq473497-23	FN..PMLIDR	LCRSKHIFKN	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-24	FE..SSLIDR	LCKSKHIFKN	MYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
ef173416-24	FE..SSLIDR	LCKSKHIFKN	MYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-25	FE..PTLIDR	LCRSKHIFKN	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
dq473508-28	FP..GDLVKN	LCNSRHIIYKT	TYEEAEGGMP	SGCAGTSIFN	TIINNIIIRT
hrv-29	FE..PALIDR	LCRSKHIFKN	TYEEVEGGIP	SGCSGTSIFN	TMINNVIIRT
dq473512-30	FN..PMLIDR	LCKSKHIFKN	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-30	FN..PMLIDR	LCKSKHIFKN	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-31	FQ..SDLIDR	LCRSKHIFKN	VYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-32	FE..HRLIDR	LCNSKHIFKD	SYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-33	FR..TDLIDR	LCKSKHIFKG	TYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-34	FE..ANLIDR	LCNSKHIFKN	VYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
dq473501-34	FE..ANLIDR	LCNSKHIFKN	VYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
dq473505-36	FS..SQLINQ	ICNSKHIIYKS	KYYEVEGGMP	SGCAGTSIFN	TMINNIIIRT
hrv-38	FQ..PNLIDR	LCKSKHIFKN	TYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
dq473495-38	FQ..PNLIDR	LCKSKHIFKN	TYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
ay751783-39	FD..PSLIDR	LCKSKHIFRN	TYEEVEGGVP	SGCSGTSIFN	TMMNIIIRT
hrv-40	FN..SNLIDR	LCRSKHIFKN	VYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
dq473491-41	FE..DRLIDR	LCKSKHIFRD	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-43	FE..PKLVDR	LCNSKHIIYRD	SYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
dq473499-44	FE..PALIDR	LCRSKHIFKN	TYEEVEGGIP	SGCSGTSIFN	TMINNVIIRT
hrv-45	FP..GCAVRK	LSHSTHIYKG	MYEEVDGGMP	SGCAGTSIFN	SMINNIIIRT
dq473506-46	FP..GKLVNK	LCHSKHIIYKT	TYEEVEGGMP	SGCAGTSIFN	SMINNIIIRT
hrv-47	FK..PNLIDR	LCRSKHIFKN	VYYEVEGGVP	SGCSGTSIFN	TMINNVIIRA
dq473496-49	FD..PMLIDR	LCKSKHIFRN	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-49-f04	FD..PMLIDR	LCKSKHIFRN	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-50	FE..ASLIDR	LCNSKHIFKN	MYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-51	FP..GNLVRK	LCYSKHIFKT	QYYEVEGGMP	SGCAGTSIFN	TIINNIIIRT
dq473507-53	FP..GKLVNK	LCHSKHIIYKT	TYEEVEGGMP	SGCAGTSIFN	SMINNIIIRT
hrv-54	FQ..SNLIDR	LCKSKHIFKN	VYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-54-f05	FQ..PNLIDR	LCKSKHIFKN	VYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
dq473511-55	FE..ANLIDR	LCRSKHIFKS	VYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-56	FE..ASLIDR	LCKSKHIFKN	MYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-57	FE..ANLIDR	LCKSKHIFKN	VYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-58	FS..SQLINQ	ICNSKHIIYKS	KYYEVEGGMP	SGCAGTSIFN	TIINNIIIRT
dq473500-59	FE..SGLIDR	LCKSKHIFKN	IYYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-60	FQ..PDLIDR	LCKSKHIFKN	IYYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-61	FE..HRLIDR	LCKSKHIFKD	TYEEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-62	FE..PTLIDR	LCRSKHIFKN	TYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-63	FE..ASLIDR	LCNSKHIFKN	MYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-64	FE..PKLIDR	LCNSKHIIYRD	SYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
ef173417-64	FE..PKLIDR	LCNSKHIIYRD	SYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-65	FP..GNLVQK	LCYSKHIFKT	QYYEVEGGMP	SGCAGTSIFN	TMINNVIIRT
hrv-66	FE..PNLIDR	LCKSKHIFKN	MYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-67	FE..HRLIDR	LCNSKHIFKD	SYEEVEGGVP	SGCSGTSIFN	TMINNIIIRT
hrv-68	FP..GDLVKN	LCNSKHIIYKT	IYYEVEGGMP	SGCAGTSIFN	TIINNIIIRT

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hrv-71	FP..GDLVQK	LCYSKHIFKT	KYYEVEGGMP	SGCAGTSIFN	TMINNVIIRT
dq473492-73	FE..DKLIDR	LCRSKHIFRD	TYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
dq473494-74	FE..SGLIDR	LCKSKHIFRD	SYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
dq473510-75	FD..SKLIDR	LCNSKHIFKN	SYEVEGGIP	SGCSGTSIFN	TMINNIIIRT
dq473502-76	FR..TDLIDR	LCKSKHIFKG	TYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-76	FR..TDLIDR	LCKSKHIFKG	TYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-77	FE..PGLIDR	LCKSKHIFKN	TYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-78	FE..SKLIDR	LCNSKHIFSS	QYYEVEGGMP	SGCAGTSIFN	TMINNVIIRT
ef173418-78	FE..SKLIDR	LCNSKHIFSS	QYYEVEGGMP	SGCAGTSIFN	TMINNVIIRT
hrv-80	FQ..GDLVRK	LCYSKHVYKA	SYEVEGGMP	SGCAGTSIFN	TMINNIIIRT
hrv-81	FN..SALIDK	LCNSKHIFKS	TYEVEGGVP	SGCSGTSIFN	SMINNIIIRT
hrv-81-f06	FN..STLIDK	LCNSKHIFKS	TYEVEGGVP	SGCSGTSIFN	SMINNIIIRT
hrv-81-f07	FN..STLIDK	LCNSKHIFKS	TYEVEGGVP	SGCSGTSIFN	SMINNIIIRT
hrv-82	FE..SRLIDR	LCNSKHIIKD	SYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
dq473509-82	FE..PRLIDR	LCNSKHIIKD	SYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-85	FD..SNLIDR	ICKSKHIFKN	MYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
pico-85	FD..SNLIDR	ICKSKHIFKN	MYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
dq473504-88	FP..SQLIDQ	ICNSKHIIYS	KYYEVEGGMP	SGCAGTSIFN	TIINNIIIRT
a10937-89	FS..SQLINQ	ICNSKHIIYS	KYYEVEGGMP	SGCAGTSIFN	TIINNIIIRT
hrv-89	FS..SQLINQ	ICNSKHIIYS	KYYEVEGGMP	SGCAGTSIFN	TIINNIIIRT
hrv-89-f08	FP..SQLINQ	ICNSKHIIYS	KYYEVEGGMP	SGCAGTSIFN	TIINNIIIRT
hrv-89-f09	FS..SQLINQ	ICNSKHIIYS	KYYEVEGGMP	SGCAGTSIFN	TIINNIIIRT
m16248-89	FS..SQLINQ	ICNSKHIIYS	KYYEVEGGMP	SGCAGTSIFN	TIINNIIIRT
hrv-90	FE..SNLIDR	LCRSKHIFKN	MYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-94	FE..PKLIDR	LCNSKHIIYRD	SYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
ef173419-94	FE..PKLIDR	LCNSKHIIYRD	SYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-95	FP..GCAVRK	LSHSAHIYKG	TYEVDGGMP	SGCAGTSIFN	SMINNIIIRT
hrv-96	FE..HRLIDR	LCNSKHIFKD	TYEVEGGIP	SGCSGTSIFN	TMINNVIIRT
hrv-98	FQ..PNLIDR	LCKSKHIFKN	VYYEVEGGVP	SGCSGTSIFN	TMINNVIIRT
hrv-100	FD..ASLIDR	LCKSKHIFKN	MYEVEGGVP	SGCSGTSIFN	TMINNIIIRT
ef186077-qpm	FP..GELAYK	LCNTTHIIYKD	EIYTVKGGMP	SGISGTSIFN	TIINNIIIRT
ef077279-nat001	LP..GELAYK	LCNTTHIIYKD	EIYTVKGGMP	SGISGTSIFN	TIINNIIIRT
ny1078	FP..GELAYK	LCNTTHIIYKD	EMYSVKGGMP	SGISGTSIFN	TIINNIIIRT
ef582385-c024	FP..GHLTQR	LCNTTHIFRD	TTYDVKGGMP	SGISGTSIFN	TMMNNIIIRT
ef077280-nat045	FP..GELMGK	LSNSKHIIYKN	AFYTTEGGMP	SGICGTSIFN	TMINNVIIRT
ef582387-c026	FP..GELAYK	LCNTTHIIYKD	EIYTVKGGMP	SGISGTSIFN	TIINNIIIRT
ef582386-c025	FD..GELTEK	LKKTTHVYKD	EVYTVLGGMP	SGTSGTSVFN	TMINNIIIRT
dq473485-03	FK.QPSLIQS	ICNTHHIFRD	EIYRVEGGMP	SGCSGTSIFN	SMINNIIIRT
ef173422-03	FK.HPSLIQS	ICNTHHIFRD	EIYRVEGGMP	SGCSGTSIFN	SMINNIIIRT
dq473490-04	FQ.CSNLIQQ	ICTTHHIFRD	QIYVVEGGMP	SGCSGTSIFN	SMINNIIIRT
hrv-05	FQ.CSELIQQ	ICTTHHIFKD	QIYVVEGGMP	SGCSGTSIFN	SMINNIIIRT
dq473486-06	FK.HSSLIQT	ICHTHHISKD	EIYIVEGGMP	SGCSGTSIFN	SMINNIIIRT
l05355-14	FA.GSSLIQS	ICNTHHIFRD	EIYVVEGGMP	SGCSGTSIFN	SMINNIIIRT
k02121-14	FA.GSSLIQS	ICNTHHIFRD	EIYVVEGGMP	SGCSGTSIFN	SMINNIIIRT
ef173420-17	FK.HSNLIQT	ICNTHHIFRD	EIYEVEGGMP	SGCSGTSVFN	SMINNIIIRT
hrv-26	FQ.CADMIQQ	ICTTHHIFKD	QIYVVEGGMP	SGCSGTSIFN	SMINNIIIRT
hrv-27	FE.SADLVKK	ISTTHHIFKD	QIYVVEGGMP	SGCSGTSIFN	SMINNIIIRT
ef173421-27	FE.SADLVKK	ISTTHHIFKD	QIYVVEGGMP	SGCSGTSIFN	SMINNIIIRT
dq473487-35	FE.HSNLIQT	ICNTHHIFKD	EIYTVKGGMP	SGCSGTSIFN	SMINNIIIRT
hrv-35	FE.HSNLIQT	ICNTHHIFKD	EIYTVKGGMP	SGCSGTSIFN	SMINNIIIRT
ef173423-37	FK.HSSLIQS	ICHTHHIFKD	EIYIVEGGMP	SGCSGTSIFN	SMINNIIIRT
hrv-42	FQ.CSELIQQ	ICTTHHIFKD	QIYVVEGGMP	SGCSGTSIFN	SMINNIIIRT
dq473488-48	FK.HANLIKS	ICNTHHIFRD	QIYEVEGGMP	SGCSGTSIFN	SMINNIIIRT
hrv-52	FR.HSNLIKT	ICNTHHIFRD	EIYEVEGGMP	SGCSGTSVFN	SMINNIIIRT
hrv-52-f10	FK.HSNLIRT	ICNTHHIFRD	EIYEVEGGMP	SGCSGTSVFN	SMINNIIIRT
ef173424-52	FR.HSNLIKT	ICNTHHIFRD	EIYEVEGGMP	SGCSGTSVFN	SMINNIIIRT
hrv-69	FK.HSNLIKT	ICNTHHIFRD	EIYEVEGGMP	SGCSGTSVFN	SMINNIIIRT
dq473489-70	FR.HSNLIQT	ICNTHHIFRD	EIYEVEGGMP	SGCSGTSVFN	SMINNIIIRT

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hrv-72	FK.HSSLIQS	ICNTHHIFRD	EIYVVEGGMP	SGCSGTSIFN	SMINNNIIRT
hrv-79	FK.CASLIQT	ICNTHHIFKD	EIYTVKGGMP	SGCSGTSIFN	SMINNNIIRT
hrv-83	FS.CASLIQT	ICNTHHIFKD	EIYTVKGGMP	SGCSGTSIFN	SMINNNIIRT
hrv-84	FE.SANLIKQ	ICTTHHIFRD	QVYVVEGGMP	SGCSGTSIFN	SMINNNIIRT
hrv-86	FK.DSNLIRS	ICNTHHIFRD	EIYAVRGGMP	SGCSGTSIFN	SMINNNIIRT
hrv-91	FK.HSNLIQT	ICNTHHIFRD	EIYEVEGGMP	SGCSGTSIFN	SMINNNIIRT
hrv-92	FK.CASLIQT	ICNTHHIFRD	EIYTVKGGMP	SGCSGTSIFN	SMINNNIIRT
ef173425-93	FE.SADLIRK	ISTTHHIFKD	QIYVVEGGMP	SGCSGTSIFN	SMINNNIIRT
hrv-97	FE.SADLIKR	ISTTHHIFKD	QIYVVEGGMP	SGCSGTSIFN	SMINNNIIRT
hrv-99	FQ.CSELIQQ	ICTTHHIFRD	QIYVVEGGMP	SGCSGTSIFN	SMINNNIIRT
2101					2150
annotation	HHHHHH...H	HHHHBBBBBBG	DDBBBBBB...	.HHHHHHHHH	HHH...HHH.
af499637-cva13	LLLKTYKGID	LDHLKMIAYG	DDVIASYPHE	VDASLLAQSG	KDYGLTMTPA
af546702-cva21	LLLRTYKGID	LDHLKMIAYG	DDVIASYPHE	VDASLLAQSG	KDYGLTMTPA
v01149-pv1m	LLLKTYKGID	LDHLKMIAYG	DDVIASYPHE	VDASLLAQSG	KDYGLTMTPA
d00239-01	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYT	LDMEAIANEG	KKYGLTITPA
pico-01	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYT	LDMEAIANEG	KKYGLTITPA
hrv-01	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYT	LDMEAIANEG	KKYGLTITPA
x02316-02	LVLDAYKNID	LDKCLKIAYG	DDVIFSUIHE	LDMEAIAGEG	VKYGLTITPA
hrv-07	LVLDAYKNID	LDKCLKILAYG	DDVIFSUNFK	LDMEILAREG	DKYGLTITPA
dq473503-07	LVLDAYKNID	LDKCLKILAYG	DDVIFSUNFK	LDMEILAREG	DKYGLTITPA
hrv-08	IILHGYKNID	LDQLRILTYG	DDIIFTYPDK	LDMSYLAQIG	EQYGLKMTPA
pico-09	LVLDAYKHID	LDKCLKIAYG	DDVIFSUKYP	LDMEAIAMEG	KKYGLTITPA
hrv-09	LVLDAYKHID	LDKCLKIAYG	DDVIFSUKYP	LDMEAIAMEG	KKYGLTITPA
hrv-09-f01	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYP	LDMEAIAMEG	KKYGLTITPA
hrv-09-f02	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYP	LDMEAIAMEG	KKYGLTITPA
dq473498-10	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEIAAKEG	TKYGLTITPA
hrv-10	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEIAAKEG	TKYGLTITPA
ef173414-11	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYE	LDMEIAAKEG	VKYGLTITPA
ef173415-12	LVLDTYKHIN	LDKCLKILSYG	DDVLFSSPYE	LSMEDIALAG	QKYGLNITPA
hrv-13	LVLDAYKHID	LDKCLKIAYG	DDVIFSUKYP	LDMEIAAGEG	NKYGLTITPA
hrv-13-f03	LVLDAYKHID	LDKCLKIAYG	DDVIFSUKYP	LDMEIATEG	NKYGLTITPA
dq473493-15	LVLDAYKHID	LDKCLKIAYG	DDVIFSUKYN	LDMEVIAAEG	LKYGLTITPA
l24917-16	LVLDAYKHID	LDKCLKIAYG	DDVIFSUKYK	LDMEIAAKEG	QKYGLTITPA
hrv-18	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEIAAKEG	TKYGLTITPA
hrv-19	LVLDAYKHID	LDKCLKIAYG	DDVIFSUKYV	LDMEIAAQEG	TKYGLTITPA
hrv-20	LVLDTYKFIN	LDKCLKILAYG	DDVIFSYPFD	LDMKELANEG	TKYGLSITPA
hrv-21	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEAIANEG	TKYGLTITPA
hrv-22	LVLDAYKHID	LDKCLKIAYG	DDVIFSUKYA	LDMEIAASEG	TKYGLTITPA
dq473497-23	LVLDAYKNID	LDKCLKIAYG	DDVIFSUTYE	LDMEIAAGEG	VKYGLTITPA
hrv-24	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEIAAKEG	TKYGLTITPA
ef173416-24	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEIAAKEG	TKYGLTITPA
hrv-25	LVLDAYRNID	LDKCLKILAYG	DDVIFSUKYQ	LDMEIAAKEG	IKYGLTITPA
dq473508-28	LVLDTYKFIN	LDKCLKILAYG	DDVIFSYPYD	LDMKELASEG	TKYGLSITPA
hrv-29	LVLDAYKNID	LDKCLKILAYG	DDVIFSUKYQ	LDMEIAAKEG	TKYGLTITPA
dq473512-30	LVLDAYKNID	LDKCLKIAYG	DDVIFSUIYE	LDMEAIAMEG	VKYGLTITPA
hrv-30	LVLDAYKNID	LDKCLKIAYG	DDVIFSUIYE	LDMEAIAMEG	VKYGLTITPA
hrv-31	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEVIAKEG	IKYGLTITPA
hrv-32	LVLDAYKHID	LDKCLKIAYG	DDVIFSUKYP	LEMEIAAGEG	KKYGLTITPA
hrv-33	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEIAALEG	VKYGLTITPA
hrv-34	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEAIAMEG	TKYGLTITPA
dq473501-34	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEAIAMEG	TKYGLTITPA
dq473505-36	LVLDAYKNID	LDKCLKILAYG	DDVIFSUNFK	LDMTVLAKEG	EKYGLTITPA
hrv-38	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEAIANEG	VKYGLTITPA
dq473495-38	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEAIANEG	VKYGLTITPA
ay751783-39	LVLDAYKNID	LDKCLKIAYG	DDVIFSUVYE	LDMEAIAMEG	KKYGLTITPA
hrv-40	LVLDAYKNID	LDKCLKIAYG	DDVIFSUKYQ	LDMEIAAKEG	SKYGLTITPA

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dq473491-41	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEAIASEG	IKYGLTITPA
hrv-43	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEAIANEG	IKYGLTITPA
dq473499-44	LVLDAYKNID	LDKCLKILAYG	DDVIFSYPYP	LDMEIAIAKEG	TKYGLTITPA
hrv-45	IILHAYKNID	LDQLRILTYG	DDIIFTYPDK	LDMEIAIAQIG	EKYGLKMTPA
dq473506-46	LVLDTYKHIN	LDKCLKILAYG	DDVIFSYPYP	LDMAELAKEG	DKYGLTITPA
hrv-47	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	IKYGLTITPA
dq473496-49	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAIEG	IKYGLTITPA
hrv-49-f04	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAIEG	TKYGLTITPA
hrv-50	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	VKYGLTITPA
hrv-51	LVLDTYKYVN	LDKCLKILAYG	DDILFSYPYP	LDMKELADEG	SKYGLTITPA
dq473507-53	LVLDTYKYIN	LDKCLKILAYG	DDVIFSYPYP	LDMAELAKEG	NKYGLTITPA
hrv-54	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	VKYGLTITPA
hrv-54-f05	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	VKYGLTITPA
dq473511-55	LVLDAYKYID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	TKYGLTITPA
hrv-56	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIANEG	TKYGLTITPA
hrv-57	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAQEG	VKYGLTITPA
hrv-58	LVLDAYKNID	LDKCLKILAYG	DDVIFSYPYP	LDMAVLAKEG	EKYGLTITPA
dq473500-59	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAAEG	KKYGLTITPA
hrv-60	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	SKYGLTITPA
hrv-61	LVLDAYKYID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAAEG	NKYGLTITPA
hrv-62	LVLDAYKNID	LDKCLKILAYG	DDVIFSYPYP	LDMEIAIAKEG	IKYGLTITPA
hrv-63	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	TKYGLTITPA
hrv-64	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIALEG	VKYGLTITPA
ef173417-64	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIALEG	VKYGLTITPA
hrv-65	LVLDTYKYVN	LDKCLKILAYG	DDILFSYPYP	LDMKELADEG	LKYGLTITPA
hrv-66	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	TKYGLTITPA
hrv-67	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAIEG	KKYGLTITPA
hrv-68	LVLDTYKFIN	LDKCLKILAYG	DDVIFSYPYP	LDMKELASEG	TKYGLSITPA
hrv-71	LVLDTYKYVN	LDKCLKILAYG	DDILFSYPYP	MDMKELASEG	VKYGLTITPA
dq473492-73	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAVEG	NKYGLTITPA
dq473494-74	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAAEG	LKYGLTITPA
dq473510-75	LILDAYKYID	LDKCLKIAYG	DDIIFTYPDK	LEMEIAIAKEG	IKYGLTITPA
dq473502-76	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIASEG	VKYGLTITPA
hrv-76	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIASEG	VKYGLTITPA
hrv-77	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	VKYGLTITPA
hrv-78	LVLDTYRHIN	LDKCLKILAYG	DDVIFSYPYP	LDMSELASEG	RKYGLKITPA
ef173418-78	LVLDTYRHIN	LDKCLKILAYG	DDVIFSYPYP	LDMSELASEG	RKYGLKITPA
hrv-80	LVLDTYKHIN	LDKCLKILAYG	DDVIFSYPYP	LDMKELASEG	VKYGLTITPA
hrv-81	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIASEG	QKYGLTITPA
hrv-81-f06	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIANEG	QKYGLTITPA
hrv-81-f07	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIANEG	QKYGLTITPA
hrv-82	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAQEG	SKYGLTITPA
dq473509-82	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAQEG	SKYGLTITPA
hrv-85	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	VKYGLTITPA
pico-85	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	VKYGLTITPA
dq473504-88	LVLDAYKNID	LDKCLKILAYG	DDVIFSYPYP	LDMAILAKEG	EKYGLTITPA
a10937-89	LVLDAYKNID	LDKCLKILAYG	DDVIFSYPYP	LDMAVLAKEG	EKYGLTITPA
hrv-89	LVLDAYKNID	LDKCLKILAYG	DDVIFSYPYP	LDMAVLAKEG	EKYGLTITPA
hrv-89-f08	LVLDAYKNID	LDKCLKILAYG	DDVIFSYPYP	LDMAVLAKEG	EKYGLTITPA
hrv-89-f09	LVLDAYKNID	LDKCLKILAYG	DDVIFSYPYP	LDMAVLAKEG	EKYGLTITPA
m16248-89	LVLDAYKNID	LDKCLKILAYG	DDVIFSYPYP	LDMAVLAKEG	EKYGLTITPA
hrv-90	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIANEG	KKYGLTITPA
hrv-94	LVLDAYKYID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAQEG	VKYGLTITPA
ef173419-94	LVLDAYKYID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAQEG	VKYGLTITPA
hrv-95	IILHGYKNID	LDQLRILTYG	DDIIFTYPDK	LDMSYLAQIG	EQYGLRMTPA
hrv-96	LVLDAYKHID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIALEG	NKYGLTITPA
hrv-98	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	VKYGLTITPA
hrv-100	LVLDAYKNID	LDKCLKIAYG	DDVIFSYPYP	LDMEIAIAKEG	TKYGLAITPA

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ef186077-qpm	LVLDTYKGIE	LDKCLKIVAYG	DDVIASYPEE	LDPAQIAVSG	LKYGLTITPA
ef077279-nat001	LVLDTYKGIE	LDKCLKIVAYG	DDVIASYPEE	LDPAQIAVSG	LKYGLTITPA
ny1078	LVLDTYKGIE	LDKCLKIVAYG	DDVIASYPEE	LDPAEIAISG	LKYGLTITPA
ef582385-c024	LVLETYKNIN	LDKLRRIAYG	DDVVASYPDE	LDPKEIAMTA	KRYGLTITPP
ef077280-nat045	LVLETYKNID	LDRLKIVAYG	DDVIASYPEY	LDPKEIAETG	LKYGLTITPA
ef582387-c026	LVLDTYKGIE	LDKCLKIVAYG	DDVIASYPEE	LDPAQIAISG	LKYGLTITPA
ef582386-c025	ITIETYKNID	LDKCLKIVAYG	DDVVISYPDM	LDAAQLADTG	SKYGLTITPA
dq473485-03	LILDAYKGID	LDSLRLIAYG	DDLIVSYPFE	LDSNILAAIG	KNYGLTITPP
ef173422-03	LILDAYKGID	LDSLRLIAYG	DDLIVSYPFE	LDSNILAAIG	KNYGLTITPP
dq473490-04	LVLDVYKGID	LDSLKIIAYG	DDVIISYPFT	LDSEVIAKQG	SKYGLTITPP
hrv-05	LILDVYKGID	LDSLRIIAYG	DDVIISYPFP	LDPEKIAEQG	AIYGLTITPP
dq473486-06	LVLDAYKGID	LDKCLKILAYG	DDLIVSYPYE	LDPEVLATLG	KKYGLTITPP
l05355-14	LILDAYKGID	LDKCLKILAYG	DDLIVSYPYE	LDPQVLATLG	KNYGLTITPP
k02121-14	LILDAYKGID	LDKCLKILAYG	DDLIVSYPYE	LDPQVLATLG	KNYGLTITPP
ef173420-17	LILDVYKGID	LDKCLKVIAYG	DDLIVSYPFE	LQPELLALAG	KKYGLTITPP
hrv-26	LILDVYKGIE	LDSLRIIAYG	DDVIISYPFT	LDAEKISEQG	LKYGLTITPP
hrv-27	LILDTYKGID	LDKLRRIAYG	DDIIASYPFE	LDSEKIAQQG	AKYGLTITPP
ef173421-27	LILDTYKGID	LDKLRRIAYG	DDIIASYPFE	LDSEKIAQQG	AKYGLTITPP
dq473487-35	LILDAYKGID	LDKCLKVIAYG	DDLIVSYPFE	LDPGVLAHG	KNYGLTITPP
hrv-35	LILDAYKGID	LDKCLKVIAYG	DDLIVSYPFE	LDPGVLAHG	KNYGLTITPP
ef173423-37	LILDAYKGID	LDKCLKILAYG	DDLIVSYPYE	LNPEVLATLG	KNYGLTITPP
hrv-42	LILDVYKGIE	LDSLRIIAYG	DDVIVSYPFP	LDPEKIAQQG	VIYGLTITPP
dq473488-48	LILDVYKGID	LDKCLKVIAYG	DDLIVSYPFE	LQPDLLALAG	KKYGLTITPP
hrv-52	LILDVYKGID	LDKCLKVIAYG	DDLIVSYPFE	LQPELLASAG	KKYGLTITPP
hrv-52-f10	LILDVYKGID	LDKCLKVIAYG	DDLIVSYPFE	LQPELLASAG	KKYGLTITPP
ef173424-52	LILDVYKGID	LDKCLKVIAYG	DDLIVSYPFE	LQPELLASAG	KKYGLTITPP
hrv-69	LILDVYKGID	LDKCLKVIAYG	DDLIVSYPFE	LQPELLAQAG	KGYGLTITPP
dq473489-70	LILDVYKGID	LDKCLKVIAYG	DDLIVSYPFE	LQPELLALAG	KKYGLTITPP
hrv-72	LVLDAYKGID	LDKCLKIAYG	DDLIVSYPYE	LNPEVLATLG	KSYGLTITPP
hrv-79	LILDAYKGID	LDKCLKVIAYG	DDLIVSYPFE	LDPEVLATLG	KNYGLVITPP
hrv-83	LILDAYKGID	LDKCLKIAYG	DDLIASYPFE	LDPEVLAKLG	KNYGLTITPP
hrv-84	LILDVYKGID	LDKCLKIAYG	DDVIISYPYE	LDPERIAEQG	KTYGLTITPP
hrv-86	LILDAYKGID	LDKLRVIAYG	DDLIVSYPFE	LDPSVLAHMG	KKYGLTITPP
hrv-91	LILDVYKGID	LDKCLKVIAYG	DDLIVSYPFE	LQPELLALAG	KKYGLTITPP
hrv-92	LVLDAYKGID	LDKCLKVIAYG	DDLIVSYPFE	LDPGVLANLG	KNYGLTITPP
ef173425-93	LILDTYKGID	LDKLRRIAYG	DDIIASYPFE	LDSEKIAQQG	TKYGLTITPP
hrv-97	LILDTYKGID	LDKLRRIAYG	DDIIASYPFE	LDSEKIAQQG	TKYGLTITPP
hrv-99	LILDVYKGID	LDSLRIIAYG	DDVIVSYPFS	LDPERIARQG	STYGLTITPP

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annotation	HHH.....	BB..BB	BBB.....	BBBB.HHHHH	HHHHH.....
af499637-cva13	DKSTTFETVT	WENVTFCLKRF	FRADKYPFL	IHPVMPMKEI	HESIRWTKDP
af546702-cva21	DKSATFETVT	WENVTFCLKRF	FRADKYPFL	VHPVMPMKEI	HESIRWTKDP
v01149-pv1m	DKSATFETVT	WENVTFCLKRF	FRADKYPFL	IHPVMPMKEI	HESIRWTKDP
d00239-01	DKSTEFKKLD	YNNVTFCLKRG	FKQDEKHTFL	IHPTFPVEEI	YESIRWTKKP
pico-01	DKSNEFKKLD	YSNVTFCLKRG	FKQDERHTFL	IHPTFPVEEI	HESIRWTKKP
hrv-01	DKSNEFKKLD	YSNVTFCLKRG	FKQDERHTFL	IHPTFPVEEI	HESIRWTKKP
x02316-02	DKSNTFVKLD	YSNVTFCLKRG	FKQDEKYNFL	IHPTFPDEI	FESIRWTKKP
hrv-07	DKSSTFQELT	YKNVTFCLKRG	FRADDRHSFL	IHPTFPATEI	YDSIRWTKNP
dq473503-07	DKSSTFQELT	YKNVTFCLKRG	FRADDRHSFL	IHPTFPATEI	YDSIRWTKNP
hrv-08	DKSDTFKDL	LSTATFLKRG	FKPDTHHPFL	IHPTYPIQDI	YESIRWTKNP
pico-09	DKSDTFKKLD	YDSVTFCLKRG	FKQDSKYPFL	IHPTFPVNEI	HESIRWTKKP
hrv-09	DKSDTFKKLD	YDSVTFCLKRG	FKQDSKYPFL	IHPTFPVSEI	HESIRWTKKP
hrv-09-f01	DKSDTFKKLD	YDSVTFCLKRG	FKQDSKYPFL	IHPTFPINEI	HESIRWTKKP
hrv-09-f02	DKSDTFKKLD	YDSVTFCLKRG	FKQDSKYPFL	IHPTFPINEI	HESIRWTKKP
dq473498-10	DKSDTFKQLN	YGNVTFCLKRG	FKQDEKYQFL	IHPTFPVEEI	QESIRWTKKP
hrv-10	DKSDTFKQLN	YGNVTFCLKRG	FKQDEKYQFL	IHPTFPVEEI	QESIRWTKKP
ef173414-11	DKSNVFKKLD	YNNITFLKRG	FRQDDKHNF	IHPTFPIDEI	HESIRWTKKP

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ef173415-12	DKSDKFTKID	FSNATFLKRG	FRMDSKHSFL	VHPTFPVEEI	CESIRWTKNP
hrv-13	DKSDTFKKLD	YDNVTFLKRG	FKQDAKYPFL	IHPTFPVSEI	HESIRWTKKP
hrv-13-f03	DKSDTFKKLD	YDNVTFLKRG	FKQDAKYPFL	IHPTFPVSEI	HESIRWTKKP
dq473493-15	DKSDNFQKLT	YENVTFLLKRG	FKQDDKYPFL	IHPTFPVSEI	HESIRWTKKP
l24917-16	DKSSEFKELD	YGNVTFLKRG	FRQDDKYKFL	IHPTFPVEEI	YESIRWTKKP
hrv-18	DKSSEFKQLD	YSNVTFLLKRG	FRQDDKYQFL	IHPTFPIEEI	HESIRWTKKP
hrv-19	DKSETFTKLD	YSNVTFLLKRG	FKQDIKYPFL	IHPTFPINEI	HESIRWTKKP
hrv-20	DKSDTFRKLD	YNNATFLKRG	FKQDEKYGFL	IHPIYPETEV	WESIRWTKNP
hrv-21	DKSTCFKQLD	YSNVTFLLKRG	FKQDEKHQFL	IHPTFPIEEI	HESIRWTKNP
hrv-22	DKSETFKELN	YDTVTFLLKRG	FKQDIKYPFL	VHPTFPVKEI	HESIRWTKKP
dq473497-23	DKSTTFRKLD	YNNVTFLKRG	FKQDEKYSFL	IHPTFPENEI	FESIRWTKKP
hrv-24	DKSCEFKQLD	YSNVTFLLKRG	FRQDEKHHFL	IHPTFPVEEI	QESIRWTKKP
ef173416-24	DKSCEFKQLD	YSNVTFLLKRG	FRQDEKHHFL	IHPTFPVEEI	QESIRWTKKP
hrv-25	DKSNDFKQLN	YNNVTFLKRG	FRQDEKHQFL	IHPTFPIEEI	QESIRWTKKP
dq473508-28	DKSDTFKKLD	YNNATFLKRG	FKQDEKYSFL	IHPIYPETEV	WESIRWTKNP
hrv-29	DKSDCFKQLN	YNNVTFLKRG	FRQDEKHNFL	IHPTFPVEEI	QESIRWTKKP
dq473512-30	DKSTTFRKLD	YSNVTFLLKRG	FKQDEKYNFL	IHPTFPENEI	FESIRWTKKP
hrv-30	DKSTTFRKLD	YSNVTFLLKRG	FKQDEKYNFL	IHPTFPENEI	FESIRWTKKP
hrv-31	DKSSEFKKLD	YNSVTFLKRG	FKQDERYSFL	IHPIFPIDEI	HESIRWTKKP
hrv-32	DKSDTFKKLD	YDSVTFLKRG	FKQDSKYPFL	IHPTFPVSEI	HESIRWTKKP
hrv-33	DKSSIFKKLD	YSNITFLKRG	FRQDEKHNFL	IHPTFPIDEI	HESIRWTKKP
hrv-34	DKSDKFKQLD	YSNVTFLLKRG	FKQDEKHNFL	IHPTFPIEEI	QESIRWTKKP
dq473501-34	DKSDKFKQLD	YSNVTFLLKRG	FKQDEKHNFL	IHPTFPIEEI	QESIRWTKKP
dq473505-36	DKSDTFQELT	YKNVTFLKRG	FRADERHSFL	VHPTFPVAEI	HDSIRWTKNP
hrv-38	DKSSEFKQLD	YSNVTFLLKRG	FKQDDRYQFL	IHPTFPIDEI	QESIRWTKKP
dq473495-38	DKSSEFKQLD	YSNVTFLLKRG	FKQDDRYQFL	IHPTFPIDEI	QESIRWTKKP
ay751783-39	DKSDIFRKLD	YSNVTFLLKRG	FRQDEKYNFL	IHPTFPESEI	FESIRWTKKP
hrv-40	DKSNEFKQLN	YNNVTFLKRG	FKQDDKYQFL	IHPTFPIDEI	HESIRWTKKP
dq473491-41	DKSDTFKKLD	YDSVTFLKRG	FRQDAKYPFL	IHPTFPVSEI	HESIRWTKKP
hrv-43	DKSETFTKLD	YNNVTFLKRG	FKQDVKYPFL	IHPTFPVQEI	HESIRWTKKP
dq473499-44	DKSDCFKQLD	YNNVTFLKRG	FRQDEKHNFL	IHPTFPVEEI	QESIRWTKKP
hrv-45	DKSDTFKDLN	LSTATFLKRG	FKPDSKHPFL	VHPIYPIQDI	YESIRWTKNP
dq473506-46	DKSDKFEKLD	YGNATFLKRG	FKQDNRYKFL	IHPIYPESEV	WESIRWTKNP
hrv-47	DKSSEFKKLD	YNSVTFLKRG	FKQDDKYSFL	IHPTFPVDEI	QESIRWTKKP
dq473496-49	DKSTTFVKLN	YNNVTFLKRG	FKQDEKYNFL	IHPTFPESEI	FESIRWTKKP
hrv-49-f04	DKSTTFVKLN	YNNVTFLKRG	FKQDEKYNFL	IHPTFPESEI	FESIRWTKKP
hrv-50	DKSENFQQLD	YNNVTFLKRG	FKQDEKYSFL	IHPTFPIEEI	QESIRWTKKP
hrv-51	DKSDTFQKLD	FSNATFLKRG	FKPDEKHSFL	VHPIYPEEEV	WESIRWTKNP
dq473507-53	DKSDKFEKLN	YENATFLKRG	FKQDDRYKFL	IHPIYPESEV	WESIRWTKNP
hrv-54	DKSSEFKKLD	YSNVTFLLKRG	FKQDDRYKFL	IHPTFPVNEI	QESIRWTKKP
hrv-54-f05	DKSSEFKKLD	YSNVTFLLKRG	FKQDERYSFL	IHPTFPVNEI	QESIRWTKKP
dq473511-55	DKSTSFKQLD	YNNVTFLKRG	FKQDEKHQFL	IHPTFPVEEI	HESIRWTKNP
hrv-56	DKSSTFKQLD	YSNVTFLLKRG	FKQDEKYQFL	IHPTFPVEEI	QESIRWTKKP
hrv-57	DKSTHFKQLD	YNNVTFLKRG	FRQDEKHQFL	IHPTFPIEEI	YESIRWTKNP
hrv-58	DKSDVFQELT	YKNVTFLKRG	FRADDRHSFL	IHPTFPVVEI	HDSIRWTKNP
dq473500-59	DKSTTFKQLD	YSNVTFLLKRG	FKQDDKYRFL	IHPTFPVEEI	QESIRWTKKP
hrv-60	DKSSEFKQLD	YSNVTFLLKRG	FKQDDKYHFL	IHPTFPIEEI	HESIRWTKKP
hrv-61	DKSDTFKKLD	YSSVTFLKRG	FKQDDKYSFL	IHPTFPISEI	HESIRWTKKP
hrv-62	DKSNDFKQLD	YNNVTFLKRG	FRQDEKHQFL	IHPTFPVEEI	QESIRWTKKP
hrv-63	DKSSTFTQLN	YDNVTFLKRG	FKQDEKHQFL	IHPTFPVEEI	QESIRWTKKP
hrv-64	DKSETFRQLD	YSNVTFLLKRG	FKQDAKYPFL	IHPTFPIKEI	HESIRWTKKP
ef173417-64	DKSETFRQLD	YSNVTFLLKRG	FKQDAKYPFL	IHPTFPIKEI	HESIRWTKKP
hrv-65	DKSDVFKKLD	FGNATFLKRG	FRPDEKHSFL	IHPVYPEEEV	WESIRWTKNP
hrv-66	DKSSEFKQLD	YNNVTFLKRG	FRQDERYTFL	IHPTFPIEEI	QESIRWTKKP
hrv-67	DKSDTFKKLD	YDSVTFLKRG	FKQDSKYPFL	IHPTFPVNEI	HESIRWTKKP
hrv-68	DKSDTFKKLD	YSNATFLKRG	FKQDEKYSFL	IHPIYPETEV	WESIRWTKNP
hrv-71	DKSEEFKSLD	FTNATFLKRN	FKPDDKHSFL	IHPVYPETEV	WESIRWTKNP
dq473492-73	DKSDTFRKLD	YDNVTFLKRG	FRQDAKYPFL	IHPTFPVSEI	HESIRWTKKP

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dq473494-74	DKSDCFKKLD	YNTVTFLKRG	FKPDDKYPFL	IHPTFPPIQEI	HESIRWTKKP
dq473510-75	DKSETFEKLD	YNNVTFLKRG	FKQDAKYPFL	VHPTFPVQEI	HESIRWTKKP
dq473502-76	DKSSVFKRLD	YSNITFLKRG	FRQDEKHNFL	IHPTFPIDEI	HESIRWTKKP
hrv-76	DKSSVFKRLD	YSNITFLKRG	FRQDEKHNFL	IHPTFPIDEI	HESIRWTKKP
hrv-77	DKSSEFKQLD	YNNVTFLKRG	FRQDDKYKFL	IHPTFPVDEI	HESIRWTKKP
hrv-78	DKSEKFIDLS	YENATFLKRG	FQPDQKHSFL	IHPTFPISEI	HNSIRWTRSP
ef173418-78	DKSEKFIDLS	YENATFLKRG	FQPDQKHSFL	IHPTFPISEI	HNSIRWTRSP
hrv-80	DKTEEFRKLD	FGNATFLKRG	FKVDDKYSFL	VHPLYPEKEV	WESIRWTKNP
hrv-81	DKSTKFKDLD	YKNVTFLKRG	FRQDERYSFL	IHPTFPVEEI	YESIRWTKKP
hrv-81-f06	DKSTEFKELD	YKNVTFLKRG	FRQDERYSFL	IHPTFPVEEI	YESIRWTKKP
hrv-81-f07	DKSTEFKELD	YKNVTFLKRG	FRQDERYSFL	IHPTFPVEEI	YESIRWTKKP
hrv-82	DKSETFKKLD	YSNVTFLKRG	FKQDERYSFL	IHPTFPIDEI	HESIRWTKKP
dq473509-82	DKSETFKKLD	YSNVTFLKRG	FKQDERYPFL	IHPTFPIDEI	HESIRWTKKP
hrv-85	DKSSEFKQLN	YNNVTFLKRG	FKQDDKYQFL	IHPTFPIEEI	QESIRWTKKP
pico-85	DKSSEFKQLN	YNNVTFLKRG	FKQDDKYQFL	IHPTFPIEEI	QESIRWTKKP
dq473504-88	DKSNVFQELT	YNNVTFLKRG	FRADEKHSFL	IHPTFPVAEI	YDSIRWTKNP
a10937-89	DKSDVFQELT	YKNVTFLKRG	FRADERHSFL	IHPTFPVAEI	HDSIRWTKNP
hrv-89	DKSDVFQELT	YKNVTFLKRG	FRADERHSFL	IHPTFPVAEI	HDSIRWTKNP
hrv-89-f08	DKSDVFQELT	YKNVTFLKRG	FRADERHSFL	VHPTFPVAEI	YDSIRWTKNP
hrv-89-f09	DKSDVFQELT	YKNVTFLKRG	FRADERHSFL	VHPTFPVAEI	YDSIRWTKNP
m16248-89	DKSDVFQELT	YKNVTFLKRG	FRADERHSFL	IHPTFPVAEI	HDSIRWTKNP
hrv-90	DKSSEFKQLS	YENVTFKRG	FRQDEKHSFL	IHPVFPVEEI	HESIRWTKKP
hrv-94	DKSDTFKELS	YDNVTFLKRG	FKQDTKYSFL	VHPTFPVKEI	HESIRWTKKP
ef173419-94	DKSDTFKELS	YDNVTFLKRG	FKQDTKYSFL	VHPTFPVKEI	HESIRWTKKP
hrv-95	DKSDTFKDLD	LSTATFLKRG	FKPDTHHPFL	IHPTFPVQEI	YESIRWTKNP
hrv-96	DKSDTFKKLD	YNSVTFLKRG	FKQDDKYPFL	IHPTFPISEI	HESIRWTKKP
hrv-98	DKSNEFKKLD	YSNVTFLKRG	FKQDNKYSFL	IHPTFPIDEI	QESIRWTKKP
hrv-100	DKSNCFKQLD	YDNVTFLKRG	FRQDEKHQFL	IHPTFPVEEI	QESIRWTKKP
ef186077-qpm	DKSDQFVKVN	WDNATFLKRG	FRVDERYSFL	VHPVFPEKEI	FESIRWTRDP
ef077279-nat001	DKSDQFVKVN	WDNATFLKRG	FRVDKRYNFL	IHPVFPEKEI	FESIRWTRDP
ny1078	DKSSQFTKID	WTNATFLKRG	FKADEKHSFL	IHPTFPSEI	FESIRWTRDP
ef582385-c024	DKTDQFSKMT	WDNVTFKRG	FKPDSKYKFL	IHPVYSMQDV	YESIRWTKDP
ef077280-nat045	DKSETFKPIT	WETVTFLKRG	FKPDEKYPFL	IHPVYSMAI	HESIRWTKDP
ef582387-c026	DKSDHFVKVD	WSNATFLKRG	FRVDKKYSFL	VHPVFPEKEI	FESIRWTRDP
ef582386-c025	DKGTDQKQVT	WDTVTFLKRG	FRNDLKYPFL	VHPVPMEDV	FESIRWTKDP
dq473485-03	DKSDAFTKIT	WENITFLKRY	FRPDPQFPFL	IHPVMPMDI	YESIRWTRDP
ef173422-03	DKSDAFTKIT	WENITFLKRY	FRPDPQFPFL	IHPVMPMDI	YESIRWTRDP
dq473490-04	DKSPNFTKMN	WDNITFLKRY	FKPDPDFPFL	IHPVMPMAI	HESIRWTKDP
hrv-05	DKSPKFTKMD	WNTVTFLKRG	FKPDSEFPFL	VHPVMPMTDI	HESIRWTKDP
dq473486-06	DKTEKFSKIT	WDNLTFLKRY	FRSDEQFPFL	VHPVMPMDI	YESIRWTKDP
l05355-14	DKSETFTKMT	WENLTFLKRY	FKPDQQFPFL	VHPVMPMKDI	HESIRWTKDP
k02121-14	DKSETFTKMT	WENLTFLKRY	FKPDQQFPFL	VHPVMPMKDI	HESIRWTKDP
ef173420-17	DKSEKFVKTT	WENVTFKRY	FRPDPQYPFL	IHPVMPMDI	HESIRWTRDP
hrv-26	DKSPKFTKMD	WHTVTFLKRG	FKPDHEFPFL	VHPVMPMSEI	QESIRWTKDP
hrv-27	DKSTQFHKIT	WENVTFKRY	FRPDKQFPFL	VHPVMPMSDI	HESIRWTKDP
ef173421-27	DKSTQFHKIT	WENVTFKRY	FRPDKQFPFL	VHPVMPMSDI	HESIRWTKDP
dq473487-35	DKSEKFEKMT	WENLTFLKRY	FKPDEQFPFL	VHPVMPMDI	YESIRWTKDP
hrv-35	DKSEKFEKMT	WENLTFLKRY	FKPDEQFPFL	VHPVMPMDI	YESIRWTKDP
ef173423-37	DKTEKFSKIT	WDNLTFLKRY	FRSDEQFPFL	VHPVMPMDI	YESIRWTKDP
hrv-42	DKSPKFTKMD	WNTVTFLKRG	FKPDKEFPFL	IHPVMPMSDI	HESIRWTKDP
dq473488-48	DKSESFSKTT	WENVTFKRY	FKPDSQYPFL	IHPVMPMDI	YESIRWTRDP
hrv-52	DKSEKFTKTT	WENVTFKRY	FRPDPQYPFL	IHPVMPMDI	YESIRWTRDP
hrv-52-f10	DKSEKFTKTT	WENVTFKRY	FRPDPQYPFL	IHPVMPMDI	HESIRWTRDP
ef173424-52	DKSEKFTKTT	WENVTFKRY	FRPDPQYPFL	IHPVMPMDI	YESIRWTRDP
hrv-69	DKSEKFTKTT	WENVTFKRY	FRPDSQYPFL	IHPVMPMDI	HESIRWTRDP
dq473489-70	DKSEKFVKTT	WENVTFKRY	FRPDPQYPFL	IHPVMPMDI	HESIRWTRDP
hrv-72	DKSAAFSKVT	WENLTFLKRY	FRPDKQFPFL	VHPVMPMKDI	HESIRWTKDP
hrv-79	DKSEKFTKMT	WENLTFLKRY	FRPDEQFPFL	IHPVMPMDI	YESIRWTKDP

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hrv-83	DKSEKFVKMT	WENLTFCLKRY	FRPDEQFPFL	IHPVMPMQDI	HESIRWTKDP
hrv-84	DKTEHFGKTD	WSNVTFCLKRN	FRPDPEFPFL	IHPVMPMADI	HESIRWTKDP
hrv-86	DKSENFVKMT	WENITFLKRY	FKPDKEFPFL	IHPVMPMQDI	HESIRWTKDP
hrv-91	DKSEKFVKTT	WENVTFCLKRH	FRPDQPYPFL	IHPVMPMQDI	HESIRWTRDP
hrv-92	DKSEKFVKMT	WENLTFCLKRY	FRPDEQFPFL	IHPVMPMQDI	HESIRWTKDP
ef173425-93	DKSTQFHKVT	WENVTFCLKRH	FRPDQKFPFL	VHPVMPMTDI	YESIRWTKDP
hrv-97	DKSAQFHKIT	WENVTFCLKRY	FRPDQKFPFL	VHPVMPMSDI	HESIRWTKDP
hrv-99	DKSPEFTKMN	WNNVTFCLKRH	FKPDSEFPFL	IHPVMPMSDI	YESIRWTKDP
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annotation	.HHHHHHHHH	HHHHH..HHH	HHHHHHHHHH	.HHHHHHH..	.HHHHHHHHH
af499637-cva13	RNTQDHVRS	CLLAWHNGEE	EYNKFLAKIR	SVPIGRALL	PEYSTLYRRW
af546702-cva21	RNTQDHVRS	CLLAWHNGEE	EYNKFLAKIR	SVPIGRALL	PEYSTLYRRW
v01149-pv1m	RNTQDHVRS	CLLAWHNGEE	EYNKFLAKIR	SVPIGRALL	PEYSTLYRRW
d00239-01	SQMQUEHVLS	CHLMWHNGRK	VYEDFSSKIR	SVSAGRALYI	PPYDLLKHEW
pico-01	SQMQUEHVLS	CHLMWHNGRK	VYEDFSSKIR	SVSAGRALYI	PPYDLLKHEW
hrv-01	SQMQUEHVLS	CHLMWHNGRK	VYEDFSSKIR	SVSAGRALYI	PPYDLLKHEW
x02316-02	SQMHEHVLS	CHLMWHNGRD	AYKKFVEKIR	SVSAGRALYI	PPYDLLLHEW
hrv-07	SCMQUEHVLS	CHLMWHNGRH	EYQNFVKGIR	SVSAGRALYI	PAYEVLEHEW
dq473503-07	SCMQUEHVLS	CHLMWHNGRH	EYQNFVKGIR	SVSAGRALYI	PAYEVLEHEW
hrv-08	RCLQEHVLS	AHLCWHNGPE	QYADFIGKIR	SIPIGRSLYL	PSYDVLLYEW
pico-09	SQMQUEHVLS	CHLMWHNGRD	VYKEFESGIR	SVS..GRALYI	PPYELLLHEW
hrv-09	SQMQUEHVLS	CHLMWHNGRD	VYKEFENGIR	SVSAGRALYI	PPYELLLHEW
hrv-09-f01	SQMQUEHVLS	CHLMWHNGRD	VYKEFENGIR	SVSAGRALYI	PPYELLLHEW
hrv-09-f02	SQMQUEHVLS	CHLMWHNGRD	VYKEFENGIR	SVSAGRALYI	PPYELLLHEW
dq473498-10	SQMQUEHVLS	CHLMWHNGRS	VYKQFEERIR	SVSAGRALYI	PPYDLLLHEW
hrv-10	SQMQUEHVLS	CHLMWHNGRS	VYKQFEERIR	SVSAGRALYI	PPYDLLLHEW
ef173414-11	SQMQUEHVLS	CHLMWHNGRD	VYTQFEKRIR	SVSAGRALYI	PPYDLLLHEW
ef173415-12	RCMQUEHVLS	CYLMWHNGKQ	AYEDFVSKIR	SVAAGRALYI	PGYEVLEHEW
hrv-13	SQMQUEHVLS	CHLMWHNGQD	VYKEFERKIR	SVSAGRALYI	PPYELLLHEW
hrv-13-f03	SQMQUEHVLS	CHLMWHNGRD	VYNEFERKIR	SVSAGRALYI	PPYELLLHEW
dq473493-15	SQMQUEHVLS	CHLMWHNGRD	VYKEFEKGIR	SVSAGRALYI	PPYELLQHEW
l24917-16	SQMQUEHVLS	CHLMWHNGPE	IYKDFETKIR	SVSAGRALYI	PPYELLRHEW
hrv-18	SQMQUEHVLS	CHLMWHNGKN	VYKQFEQRIR	SVSAGRALYI	PPYELLLHEW
hrv-19	SQMQUEHVLS	CHLMWHNGRD	EYKEFERRIR	SVSAGRALYI	PPYEMLLHEW
hrv-20	RNMQUEHVLS	CHLMWHNGKD	KYKHFDVKIR	SVSAGRALYI	PPYEVLLHEW
hrv-21	SQMQUEHVLS	CHLMWHNGRD	VYKQFEKRIR	SVGAGRALYI	PPYDLLLHEW
hrv-22	SQMQUEHVLS	CHLMWHNGRD	VYSEFERKIR	SVSAGRALYI	PPYELLLHEW
dq473497-23	SQMHEHVLS	CHLMWHNGRD	AYKGFVEKIR	SVSAGRMLYI	PPYDLLLHEW
hrv-24	SQMQUEHVLS	CHLMWHNGRD	IYKQFEQKIR	SVSAGRALYV	PPYDLLLHEW
ef173416-24	SQMQUEHVLS	CHLMWHNGRD	IYKQFEQKIR	SVSAGRALYV	PPYDLLLHEW
hrv-25	SQMQUEHVLS	CHLMWHNGRD	VYKKFEERIR	SVGAGRALYI	PPYDLLLHEW
dq473508-28	RNMQUEHVLS	CHLMWHNGKE	KYKHFDVKIR	SVSAGRALYI	PPYEVLLHEW
hrv-29	SQMQUEHVLS	CHLMWHNGRD	VYKXFEDRIR	SVSAGRALYI	PPYDLLLHEW
dq473512-30	SQMHEHVLS	CHLMWHNGRD	AYKGFVEKIR	SVSAGRMLYI	PPYDLLLHEW
hrv-30	SQMHEHVLS	CHLMWHNGRD	AYKGFVEKIR	SVSAGRMLYI	PPYDLLLHEW
hrv-31	SQMQUEHVLS	CHLMWHNGRD	VYKQFEQKIR	SVSAGRALYI	PPYDLLLHEW
hrv-32	SQMQUEHVLS	CHLMWHNGRD	VYKEFERGIR	SVSAGRALYI	PPYELLLHEW
hrv-33	SQMQUEHVLS	CHLMWHNGRD	VYTQFERRIR	SVSAGRALYI	PPYDLLLHEW
hrv-34	SQMQUEHVLS	CHLMWHNGRD	VYKQFEERIR	SVSAGRALYI	PPYDLLLHEW
dq473501-34	SQMQUEHVLS	CHLMWHNGRD	VYKQFEERIR	SVSAGRALYI	PPYDLLLHEW
dq473505-36	SCMQUEHVLS	CHLMWHNGKH	TYQEFVKGIR	SVSAGRALYI	PAYEVLEHEW
hrv-38	SQMQUEHVLS	CHLMWHNGKD	VYKQFERKIR	SVSAGRALYI	PPYEVLLHEW
dq473495-38	SQMQUEHVLS	CHLMWHNGKD	VYKQFERKIR	SVSAGRALYI	PPYEVLLHEW
ay751783-39	SQMQUEHVLS	CHLMWHNGQS	AYKSFVERIR	SVSAGRALYI	PPYDLLLHEW
hrv-40	SQMQUEHVLS	CHLMWHNGKD	VYKQFEQRIR	SVSAGRALYI	PPYELLLHEW
dq473491-41	SQMQUEHVLS	CHLMWHNGQD	VYREFERKIR	SVSAGRALYI	PPYELLLHEW
hrv-43	SQMQUEHVLS	CHLMWHNGQD	VYKEFERRIR	SVSAGRALYI	PPYEMLLHEW

TableS3.hrvPro.Nov6.txt

dq473499-44	SQMQUEHVLSL	CHLMWHDGRD	VYKQFVERIR	SVSAGRALYI	PPYDLLLLHEW
hrv-45	RCLQEHVLSL	AHLCWHSQPE	QYADFVKRIR	STSVGKNLYI	PSYDVLLYEW
dq473506-46	RNMQUEHVLSL	CHLMWHNGRD	KYESFVNRIK	SVSAGRALYI	PPYEVLLHEW
hrv-47	SQMQUEHVLSL	CHLMWHNGRD	VYKQFEQKIR	SVSAGRALYI	PPYDLLLLHEW
dq473496-49	SQMHEHVLSL	CRLMWHNGRD	AYEKFVEKIR	SVSAGRALYI	PPYNLLLLHEW
hrv-49-f04	SQMHEHVLSL	CHLMWHNGRD	AYEKFVEKIR	SVSAGRALYI	PPYNLLLLHEW
hrv-50	SQMQUEHVLSL	CHLMWHNGRD	VYKQFEQKIR	SVSAGRALYI	PPYDLLLLHEW
hrv-51	RNMQUEHVLSL	CHLMWHNGKS	KYHEFVAKIR	SVSAGRALYI	PPFELLXHEW
dq473507-53	RNMQUEHVLSL	CHLMWHNGKD	KYDSFVNKIR	SVSAGRALYI	PPYELLLLHEW
hrv-54	SQMQUEHVLSL	CHLMWHNGKD	VYKQFEQKIR	SVSAGRALYI	PPYDLLLLHEW
hrv-54-f05	SQMQUEHVLSL	CHLMWHNGRD	VYKQFEQKIR	SVSAGRALYI	PPYDLLLLHEW
dq473511-55	SQMQUEHVLSL	CRLMWHNGRD	VYKQFEQKIR	SVSAGRALYI	PPYDLLLLHEW
hrv-56	SQMQUEHVLSL	CHLMWHNGRS	AYKQFEERIR	SVSAGRALYI	PPYDLLLLHEW
hrv-57	SQMQUEHVLSL	CHLMWHNGKD	VYKKFEKQIR	SVSAGRALYI	PPYDLLLLHEW
hrv-58	SCMQUEHVLSL	CHLMWHNGRH	AYQEFVKGIR	SVFAGRALYI	PAYEVLEHEW
dq473500-59	SQMQUEHVLSL	CHLMWHNGRD	TYKQFEDKIR	SVSAGRALYI	PPYDLLLLHEW
hrv-60	SQTQEHVLSL	CHLMWHNGRD	VYKQFEHKIR	SVSAGRALYI	PPYELLQHEW
hrv-61	SQMQUEHVLSL	CHLMWHNGRD	VYKEFERKIR	SVSAGRALYI	PPYDLLLLHEW
hrv-62	SQMQUEHVLSL	CHLMWHNGRD	VYKKFEERIR	SVSAGRALYI	PPYDLLLLHEW
hrv-63	SQMQUEHVLSL	CHLMWHNGRD	IYKQFEERIR	SVSAGRALYI	PPYDLLLLHEW
hrv-64	SQMQUXHVLSL	CHLMWHNGQD	VYKEFERKIR	SVSAGRALYI	PPYELLLLHEW
ef173417-64	SQMQUXHVLSL	CHLMWHNGQD	VYKEFERKIR	SVSAGRALYI	PPYELLLLHEW
hrv-65	RNMQUEHVLSL	CHLMWHNGED	KYQHFFVAKIR	SVSAGRALYI	PPYELLRHEW
hrv-66	SQMQUEHVLSL	CHLMWHNGRD	AYKQFEQKIR	SVSAGRALYI	PPYDLLLLHEW
hrv-67	SQMQUEHVLSL	CHLMWHNGRD	VYKEFERGIR	SVSAGRALYI	PPYELLLLHEW
hrv-68	RNMQUEHVLSL	CHLMWHNGKE	KYKHFFVDKIR	SVSAGRALYI	PPYEVLLHEW
hrv-71	RNMQUEHVLSL	CHLMWHNGEE	KYNHFVTKIR	SVSAGRALYI	PPYELLRHEW
dq473492-73	SQMQUEHVLSL	CHLMWHNGRD	VYKEFERKIR	SVSAGRALYI	PPYELLLLHEW
dq473494-74	SQMQUEHVLSL	CHLMWHNGKD	VYKEFERGIR	SVSAGRALYI	PPYELLQHEW
dq473510-75	SQMQUEHVLSL	CHLMWHNGPE	VYKDFENKIR	SVSAGRALYI	PPYDLLLLHEW
dq473502-76	SQMQUEHVLSL	CHLMWHNGRD	VYTQFERRIR	SVSAGRALYI	PPYDLLLLHEW
hrv-76	SQMQUEHVLSL	CHLMWHNGRD	VYTQFERRIR	SVSAGRALYI	PPYDLLLLHEW
hrv-77	SQMQUEHVLSL	CHLMWHNGKD	VYKQFEQKIR	SVSAGRALYI	PPYELLLLHEW
hrv-78	RNMQUEHVLSL	CQLMWHNGEE	AYKEFVCKIR	SVSAGRALYI	PPFEVLRHEW
ef173418-78	RNMQUEHVLSL	CQLMWHNGEE	AYKEFVCKIR	SVSAGRALYI	PPFEVLRHEW
hrv-80	RNMQUEHVLSL	CHLXWHNGKE	PYNHFVAKIR	SVSAGRALYI	PPYEVLCHEW
hrv-81	SQMQUEHVLSL	CHLMWHNGPE	IYRDFETKIR	SVSAGRALYI	PPYDLLRHEW
hrv-81-f06	SQMQUEHVLSL	CHLMWHNGPE	IYRDFETKIR	SVSAGRALYI	PPYDLLRHEW
hrv-81-f07	SQMQUEHVLSL	CHLMWHNGPE	IYRDFETKIR	SVSAGRALYI	PPYDLLRHEW
hrv-82	SQMQUEHVLSL	CHLMWHNGYE	VYRDFERKIR	SVSAGRALYI	PPYEMLLHEW
dq473509-82	SQMHEHILSL	CHLMWHNGHE	VYRDFERKIR	SVSAGRALYI	PPYEVLLHEW
hrv-85	SQMQUEHVLSL	CHLMWHNGKD	VYKQFEQKIR	SVSAGRALYI	PPYELLLLHEW
pico-85	SQMQUEHVLSL	CHLMWHNGKD	VYKQFEQKIR	SVSAGRALYI	PPYELLLLHEW
dq473504-88	SCMQUEHVLSL	CHLMWHNGRH	EYQSFVDRIR	SVSAGRALYI	PAYEVLEYEW
a10937-89	SCMQUEHVLSL	CHLMWHNGRH	AYQEFIKGIR	SVSAGRALYI	PAYEVLEHEW
hrv-89	SCMQUEHVLSL	CHLMWHNGRH	AYQEFIKGIR	SVSAGRALYI	PAYEVLEHEW
hrv-89-f08	SCMQUEHVLSL	CHLMWHNGRH	AYQEFIKGIR	SVSAGRALYI	PAYEVLEHEW
hrv-89-f09	SCMQUEHVLSL	CHLMWHNGRH	AYQEFIKGIR	SVSAGRALYI	PAYEVLEHEW
m16248-89	SCMQUEHVLSL	CHLMWHNGRH	AYQEFIKGIR	SVSAGRALYI	PAYEVLEHEW
hrv-90	SQMQUEHVLSL	CHLMWHNGKD	VYKQFEQKIR	SVSAGRALYI	PPYDVLLHEW
hrv-94	SQMQUEHVLSL	CHLMWHNGQE	EYNDFFVRKIR	SVSAGRALYI	PPYEMLLHEW
ef173419-94	SQMQUEHVLSL	CHLMWHNGQE	EYNDFFVRKIR	SVSAGRALYI	PPYEMLLHEW
hrv-95	RCLQEHVLSL	AHLCWHNGPE	QYADFFIGKIR	SIPIGRSLYL	PSYDVLLYEW
hrv-96	SQMQUEHVLSL	CHLMWHNGRD	VYKEFERKIR	SVSAGRALYI	PPYELLLLHEW
hrv-98	SQMQUEHVLSL	CHLMWHNGRD	VYKQFEQKIR	SVSAGRALYI	PPYDLLLLHEW
hrv-100	SQMQUEHVLSL	CHLMWHNGRD	VYKQFEDKIR	SVSAGRALYI	PPYDLLLLHEW
ef186077-qpm	KNTQDHVYSL	CLLMWHNGEE	PYKEFISKIR	KTEVGRRLYL	PPYNLLERTW
ef077279-nat001	KNTQDHVYSL	CLLMWHNGEG	PYKEFIDKIR	KTEVGRRLYL	PPYNLLERSW

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ny1078	KNTQDHVYSL	CLLMWHNGEK	PYREFVDRIR	RTDVGRRLYL	PPYSLLQRAW
ef582385-c024	KNTQDHVHSL	CLLAWHNGEE	VYEDFCAKIR	TTSVGKSLYL	PPYKYLQRW
ef077280-nat045	KNTQDHVRSL	CTLAWHNGEE	QYNTFLSKIR	TVPVGRTLSL	PPYSYLRHRW
ef582387-c026	KNTQDHVYSL	CLLMWHNGEE	PYKEFINKIR	KTEVGRRLYL	PPYNLLERTW
ef582386-c025	RNTQDHVNSL	CLLAWHNGKQ	QYDDFIQKVR	TTSVGRTLIL	PPYEYLRERW
dq473485-03	RNTQDHVRSL	CMLAWHSGEK	DYDNFITKIR	TTDIGKCLNL	PEYSVLRRRW
ef173422-03	RNTQDHVRSL	CMLAWHSGEK	DYDNFITKIR	TTDIGKCLNL	PEYSVLRRRW
dq473490-04	KNTQDHVRSL	CMLAWHSGEQ	EYNKFVEGIR	STDIGKVLVI	PSYSVLRRRW
hrv-05	KNTQDHVRSL	CMMAWHSGED	EYNKFVNGIR	STEIGKALLI	PSYSVLRRRW
dq473486-06	RNTQDHVRSL	CMLAWHSGEK	EYDNFIQKIR	TTDIGKCLNL	PEYSVLRRRW
l05355-14	KNTQDHVRSL	CMLAWHSGEK	EYNEFIQKIR	TTDIGKCLIL	PEYSVLRRRW
k02121-14	KNTQDHVRSL	CMLAWHSGEK	EYNEFIQKIR	TTDIGKCLIL	PEYSVLRRRW
ef173420-17	KNTQDHVRSL	CMLAWHSGEE	EYKNFTEKIR	STNIGKCLLI	PEYSVLRRRW
hrv-26	KNTQDHVRSL	CMMAWHSGEE	EYNKFVEGIR	STDIGKVLLI	PSYSVLRRRW
hrv-27	KNTQDHVRSL	CMLAWHSGEK	EYDEFVRGIR	STDIGKVLVI	PPYSVLRRRW
ef173421-27	KNTQDHVRSL	CMLAWHSGEK	EYDEFVRGIR	STDIGKVLVI	PPYSVLRRRW
dq473487-35	KNTQDHVRSL	CMLAWHSGQK	EYEHFIERIR	SVNIGRCLNL	PEYSVLRRRW
hrv-35	KNTQDHVRSL	CMLAWHSGQK	EYEHFIERIR	SVNIGRCLNL	PEYSVLRRRW
ef173423-37	RNTQDHVRSL	CMLAWHSGER	EYDNFIQKIR	TTDIGKCLNL	PEYSVLRRRW
hrv-42	KNTQDHVRSL	CMMAWHSGED	EYNKFVDGIR	STDIGKALLI	PSYSVLRRRW
dq473488-48	RSTQDHVRSL	CMLAWHSGEK	EYKDFVDKIR	STSIGKCLLI	PEYSVLRRRW
hrv-52	KNTQDHVRSL	CMLAWHSGEE	EYKNFIEKIR	STSIGKCLLI	PEYSVLRRRW
hrv-52-f10	KNTQDHVRSL	CMLAWHSGEE	EYKNFIEKIR	STSIGKCLLI	PEYSVLRRRW
ef173424-52	KNTQDHVRSL	CMLAWHSGEE	EYKNFIEKIR	STSIGKCLLI	PEYSVLRRRW
hrv-69	RNTQDHVRSL	CMLAWHSGEE	EYKVFTDKIR	STSIGKCLLI	PEYSVLRRRW
dq473489-70	KNTQDHVRSL	CMLAWHSGEE	EYKNFTEKIR	STSIGKCLLI	PEYSVLRRRW
hrv-72	KNTQDHVRSL	CMLAWHSGEE	EYNEFIRKIR	TTDIGKCLIL	PEYSVLRRRW
hrv-79	RNTQDHVRSL	CMLAWHSGQK	EYNEFIGKIR	TTDIGKCLNL	PEYSVLRRRW
hrv-83	RNTQDHVRSL	CMLAWHSGQK	EYNEFITKIR	TTEIGKCLNL	PEYSVLRRRW
hrv-84	KNTQDHVRSL	CMLAWHSGEE	EYKFFVKGIR	STSVGKALVI	PSYSVLRRRW
hrv-86	KNTQDHVRSL	CMLAWHSGES	EYDNFLSKIR	TTDIGKCLNL	PEYSVLRRRW
hrv-91	KNTQDHVRSL	CMLAWHSGEE	EYKNFTEKIR	STNIGKCLLI	PEYSVLRRRW
hrv-92	RNTQDHVRSL	CMLAWHSGQK	EYDEFVQKIR	TTDIGKCLNL	PEYSVLRRRW
ef173425-93	KNTQDHVRSL	CMLAWHSGEK	EYDKFVQKIR	STDIGKVLVI	PPYSVLRRRW
hrv-97	KNTQDHVRSL	CMLAWHSGEK	EYDEFVRGIR	STDIGKVLLI	PPYSVLRRRW
hrv-99	KNTQDHVRSL	CMMAWHSGES	EYNKFVDGIR	STDIGRVLLI	PSYSVLRRRW
2251					
annotation	HHHF.				
af499637-cva13	LDSF.				
af546702-cva21	LDSF.				
v01149-pv1m	LDSF.				
d00239-01	YEKF.				
pico-01	YEKF.				
hrv-01	YEKF.				
x02316-02	YEKF.				
hrv-07	YEKF.				
dq473503-07	YEKF.				
hrv-08	YEKF.				
pico-09	YEKF.				
hrv-09	YEKF.				
hrv-09-f01	YEKF.				
hrv-09-f02	YEKF.				
dq473498-10	YEKF.				
hrv-10	YEKF.				
ef173414-11	YEKF.				
ef173415-12	YDKF.				
hrv-13	YEKF.				

hrv-13-f03	YEKF.
dq473493-15	YEKF.
l24917-16	YEKF.
hrv-18	YEKF.
hrv-19	YEKF.
hrv-20	YEKF.
hrv-21	YEKF.
hrv-22	YEKF.
dq473497-23	YEKF.
hrv-24	YEKF.
ef173416-24	YEKF.
hrv-25	YEKF.
dq473508-28	YEKF.
hrv-29	YEKF.
dq473512-30	YEKF.
hrv-30	YEKF.
hrv-31	YEKF.
hrv-32	YEKF.
hrv-33	YEKF.
hrv-34	YEKF.
dq473501-34	YEKF.
dq473505-36	YEKF.
hrv-38	YEKF.
dq473495-38	YEKF.
ay751783-39	YEKF.
hrv-40	YEKF.
dq473491-41	YEKF.
hrv-43	YEKF.
dq473499-44	YEKF.
hrv-45	YEKF.
dq473506-46	YEKF.
hrv-47	YEKF.
dq473496-49	YEKF.
hrv-49-f04	YEKF.
hrv-50	YEKF.
hrv-51	YEKF.
dq473507-53	YEKF.
hrv-54	YEKF.
hrv-54-f05	YEKF.
dq473511-55	YEKF.
hrv-56	YEKF.
hrv-57	YEKF.
hrv-58	YEKF.
dq473500-59	YEKF.
hrv-60	YEKF.
hrv-61	YEKF.
hrv-62	YEKF.
hrv-63	YEKF.
hrv-64	YEKF.
ef173417-64	YEKF.
hrv-65	YEKF.
hrv-66	YEKF.
hrv-67	YEKF.
hrv-68	YEKF.
hrv-71	YEKF.
dq473492-73	YEKF.
dq473494-74	YEKF.
dq473510-75	YEKF.

dq473502-76	YEKF.
hrv-76	YEKF.
hrv-77	YEKF.
hrv-78	YDKF.
ef173418-78	YDKF.
hrv-80	YDKF.
hrv-81	YEKF.
hrv-81-f06	YEKF.
hrv-81-f07	YEKF.
hrv-82	YEKF.
dq473509-82	YEKF.
hrv-85	YEKF.
pico-85	YEKF.
dq473504-88	YEKF.
a10937-89	YEKF.
hrv-89	YEKF.
hrv-89-f08	YEKF.
hrv-89-f09	YEKF.
m16248-89	YEKF.
hrv-90	YEKF.
hrv-94	YEKF.
ef173419-94	YEKF.
hrv-95	YEKF.
hrv-96	YEKF.
hrv-98	YEKF.
hrv-100	YEKF.
ef186077-qpm	IDKFI
ef077279-nat001	IDKFI
ny1078	IDKFI
ef582385-c024	IDLFI
ef077280-nat045	LDLFI
ef582387-c026	IDKFI
ef582386-c025	IDKFI
dq473485-03	LDLF.
ef173422-03	LDLF.
dq473490-04	LDLF.
hrv-05	LDLF.
dq473486-06	LDLF.
l05355-14	LDLF.
k02121-14	LDLF.
ef173420-17	LDLF.
hrv-26	LDLF.
hrv-27	LELF.
ef173421-27	LELF.
dq473487-35	LDMF.
hrv-35	LDMF.
ef173423-37	LDLF.
hrv-42	LDLF.
dq473488-48	LDLF.
hrv-52	LDLF.
hrv-52-f10	LDLF.
ef173424-52	LDLF.
hrv-69	LDLF.
dq473489-70	LDLF.
hrv-72	LDLF.
hrv-79	LDMF.
hrv-83	LDMF.
hrv-84	LDLF.

	hrv-86	LDMF.
	hrv-91	LDLF.
	hrv-92	LDMF.
ef173425-93	LELF.	
	hrv-97	LEMF.
	hrv-99	LDLF.