

	ORF1a										ORF1b				GP4	Total
	684	780	955	981	1091	1420	1658	418	842	1030	170					
VR-2332	T I K L P	K L A N	D L S A S	E G H E A E E	G R L K F	T R S S L	Q E I A L	A E E H L	P S R T G	V N L A V	C L F A I					
CH-1a	T K Q L		F	Q A												
JXA1	T Q			Q V										L P S		
JXA1 P10	T D Q	T		R Q V	G											
JXA1 P15	T D Q	T		R Q V	G											
JXA1 P45	T D Q	T		R Q V	G									V		
JXA1 P70	T D Q	T	V	R Q V	G									V		
JXA1 P80	T D Q	T	V	R Q V	G									V		
JXA1-P100	T D Q	T	V	R Q V	G									V		
JXA1-P110	T D Q	T	V	R Q V	G											
JXA1-P120	T D Q	Q T	V	R Q V	G											
JXA1-P130	T D Q	E T	V	R Q V	G											
JXA1-P140	T D Q	E T	V	R Q V	G											
JXA1-P150	T D Q	E T	V	R Q V	G											
JXA1-P160	T D Q	E T	V	R Q V	G											
JXA1-P170	T D Q	E T	V	R Q V	G											
11NZ-GD	T D Q	T	V	R Q V	G											
11SH1-GD	T D Q	T	V	R Q V	K F E									V		
11SH-GD	T D Q	T	V	R Q V	F E											
11XX-GD	T D Q	T	V	R Q V	G									V		
NT1	T D Q	T	V	R Q V	M F E									V		
NT2	T D Q	T	V	R Q V	G											
NT3	T D Q	T	V	R Q V	S E									V		
15HEN3	T D Q	T	V	R Q D	G											
15HUN3	A T D Q	T	V	R Q V	G											
15JX2	T D Q	T	V	R Q V	M F E									V		
15JX3	T D Q	T	V	R Q V	G									V		
15JX4	T D Q	T	V	R Q V	M F E											
15LN2	T D Q	T	V	R Q V	M F E									F V		
15SC1	T D P	T	V	R Q V	K F E											
15SC2	T D Q	T	V	R Q V	M F E									V		
15ZJ2	T D Q	T	V	R Q V	G									V		
15ZJ3	T D Q	T	V	R Q V	G									V		
GX1001	T E Q	T	V	R Q V	G											
GX1002	T D Q	T	V	R Q V	G											
GX1003	T D Q	T	V	R Q V	G											
HB2014001	T D Q	T	V	S Q V	M F E											
HEB 20130008-14	T D Q	T	V	R Q V	G											
HEB-2013	A T D Q	T	V	R Q V	S E									I		
HENPDS-2	T D Q	T	V	R Q V	G									V		
HENZK-1	T D Q	I	V	R Q V	M S E									T		
HNxa14	T D Q	I	V	R Q V	G									V		
HNyc13	T D H	T	V	R Q V	G									I V		
HUN-2014	T D Q	T	V	R Q V	G											
JL-04/12	T D Q	T	V	S Q V	F E									V		
NVDC-13SXJC-2014	T D Q	I	V	R Q V	F E									V		
NVDC-BJ3-2012	T D Q	N	V	R Q V	G											
NVDC-BJ4-2012	T D Q	T	V	R Q V	G											
NVDC-BJ5-2012	T D Q	T	V	R Q V	G											
NVDC-BJ6-2012	T D Q	T	V	R Q V	G											
NVDC-BJ9-2012	T D Q	I	V	R Q V	G									V		
NVDC-BJPG-2013	I T D Q	T	V	R Q V	G									V		
NVDC-HBCZ-2013	T D Q	T	V	R Q V	F E											
NVDC-HeB1-2011	T D Q	T	V	R Q V	G											
NVDC-HuNCS-2014	T D Q	T	V	R Q V	G									M		
NVDC-SD2-2012	T D Q	T	V	R Q V	G									V		
NVDC-SDXX-2013	T D Q	I	V	R Q V	G									V		
NVDC-shh01-2014	T D Q	T	V	R Q V	M S E									I		
NVDC-SHH02-2014	T D Q	T	V	R Q V	M F E									I		
NVDC-SXJC-2013	T D Q	I	V	R Q V	F E									V		

Asp⁶⁸⁶Thr⁷⁸²Val⁹⁵⁸Arg⁹⁸¹Gly⁹⁸⁷Met¹⁰⁹²Leu¹⁴²²Asp¹⁶⁵⁹Gly⁴²⁰His⁸⁴⁴Thr¹⁰³³Val¹⁷²