

**VvXTH01/1-280**  
**VvXTH02/1-314**  
**VvXTH03/1-308**  
**VvXTH04/1-342**  
**VvXTH05/1-295**  
**VvXTH06/1-282**  
**VvXTH07/1-280**  
**VvXTH08/1-282**  
**VvXTH09/1-282**  
**VvXTH10/1-292**  
**VvXTH11/1-281**  
**VvXTH12/1-294**  
**VvXTH13/1-301**  
**VvXTH14/1-295**  
**VvXTH15/1-291**  
**VvXTH16/1-292**  
**VvXTH17/1-322**  
**VvXTH18/1-370**  
**VvXTH19/1-298**  
**VvXTH20/1-286**  
**VvXTH21/1-279**  
**VvXTH22/1-313**  
**VvXTH23/1-297**  
**VvXTH24/1-298**  
**VvXTH25/1-297**  
**VvXTH26/1-297**  
**VvXTH27/1-270**  
**VvXTH28/1-297**  
**VvXTH29/1-263**  
**VvXTH30/1-273**  
**VvXTH31/1-297**  
**VvXTH32/1-323**  
**VvXTH33/1-252**  
**VvXTH34/1-285**

MLKFDEWCLGNKGKVDLHFSSLNPKIRLLTEPSSRSPSTFPHDITYKPTYPRHSLHFHAQNYFHFSSLNSHSMASPS...TW..NLSPK  
MAPIC.....S..SS..SAVST  
.....MAS.....LLA  
.....MA.....GS..SSNGY  
.....M.....GS..SSNRY  
.....MA.....PLCLL  
.....ME..L..QA..SPVPI  
.....MEAF..SS..PKVSS  
.....MAPCF..SL..NISSM  
.....M..GSFQV  
MPTKCSIIPPQLKYHFQVSVTYSMAS.S...PF..SSSSL  
.....MASPS..TS..NLSPK  
.....MAPIY..S..SS..SAVST  
.....MASPS..TS..NLSPK  
.....MTYPT..TS..NLSPK  
.....MAPIY..S..SS..SAVST  
.....MASTS..TS..NLSPK  
.....MAPIY..S..SS..PAVPT  
.....MAVPS..VLPL  
.....MAKS..LFICSI  
.....MVMEYSLVLDLIRHVIQVGTM..MST

	1	10	20	30
<b>VvXTH01/1-280</b>	MSLD	ER	TGSGF	I
<b>VvXTH02/1-314</b>	VI F	. G	SD L	YL H
<b>VvXTH03/1-308</b>	L.FMVSGAR	....G	Y	GFF S
<b>VvXTH04/1-342</b>	FFF..F	VSFFCA	S Q	AA I
<b>VvXTH05/1-295</b>	L.TLISIV	Q....V	K L	KLP SG
<b>VvXTH06/1-282</b>	S.VFLLIF	A....V	PS K	..
<b>VvXTH07/1-280</b>	S.VLVLV	I A....M	YAN LI	..
<b>VvXTH08/1-282</b>	S.FFGLVFA	....M	IN K	..
<b>VvXTH09/1-282</b>	S.FFCLVFA	....M	SS K	..
<b>VvXTH10/1-292</b>	ILM....ITTCSDA	QGPSPGF	Y	Y Y
<b>VvXTH11/1-281</b>	L.LLAFL	ILG....A	Y	CFF S
<b>VvXTH12/1-294</b>	LVL....MVPSSNAQWPPSPGY	YPSRKFRSMSFYQGF	Y	MQ I
<b>VvXTH13/1-301</b>	LLCIAAI	MAASCPP.	Q	KM V P G
<b>VvXTH14/1-295</b>	L.LFSLEV	S.	Q	P E
<b>VvXTH15/1-291</b>	L.LFSVP	V S.	Q	..
<b>VvXTH16/1-292</b>	L.FVALIV	TA....V	Q	..
<b>VvXTH17/1-322</b>	..	..	Q	..
<b>VvXTH18/1-370</b>	L.FLVSL	LL....G	Q	..
<b>VvXTH19/1-298</b>	A.LLMSVV	V V....S	Q	..
<b>VvXTH20/1-286</b>	S.SILV	ML....I	Q	..
<b>VvXTH21/1-279</b>	..	..	Q	..
<b>VvXTH22/1-313</b>	L.GLVVYMF	....C	Q	..
<b>VvXTH23/1-297</b>	L.LLSSL	LF....G	Q	..
<b>VvXTH24/1-298</b>	A.LLISVV	V V....S	Q	..
<b>VvXTH25/1-297</b>	L.LLMSL	LL....G	Q	..
<b>VvXTH26/1-297</b>	L.LLSSL	LL....G	Q	..
<b>VvXTH27/1-270</b>	A.LLISVV	V V....S	Q	..
<b>VvXTH28/1-297</b>	L.LLSSL	LL....G	Q	..
<b>VvXTH29/1-263</b>	..	..	Q	..
<b>VvXTH30/1-273</b>	A.MHISVV	V V....S	Q	..
<b>VvXTH31/1-297</b>	L.FGFLAFSV	....V	Q	..
<b>VvXTH32/1-323</b>	LLLNLSE	LSFRSSATNLAYSTPE	Q	..
<b>VvXTH33/1-252</b>	I.RFLVKS	LDDEIQLISGSLNPFH	Q	..
<b>VvXTH34/1-285</b>	L.FLVAlM	AL....A	Q	..
	IVQNS	AMSDDFNQI	Q	..
		QPWNAPDHI	Q	..
		STECDQIKLTLD	Q	..
		TISGCCGE	Q	..
		SKKKYLFGKV	Q	..
		MQVKLVEG	Q	..

	40	50	60	70	80	90	100	110								
VvXTH01/1-280	YTAGVVVVAFYMSN	ADMFEANHDELDPEF	LGNIIRC	KDWRIQT	TNVYNG	SG	STNVG	REERVHLWFDP	SEDFHQYSILWS	DNLITIFYVDNVP						
VvXTH02/1-314	YTSGVVVVAFYMSN	ADLFFPHNHD	EIDIEI	LGHEKRKD	WVQTNM	YNGNG	. . . .	SVSTGREREK	FRLWFDPTEQYHHYSFI	WRHIIIFLVDDVP						
VvXTH03/1-308	D <del>SAGTVTAFYLLSS</del>	... QNSEHDE	I	DEEEFELGNRSG	OPYII	QTNVFT	TGGKG	. . . .	DREQRIY	LWFDPPTKA	FHSYSVLWN	TFLIIFLVDDVP				
VvXTH04/1-342	YTAGVVVVAFYTSN	GDVPEK	I	HDELDPEF	LGNVKG	KPWRQ	TNVYNG	. . . .	STS	SRG	REERYR	LWFDPSKEFHRYSILWTAKN	IIFYVDEV			
VvXTH05/1-295	HSAGTVVAYYLTS	... DQP	NRD	EVDFEE	LGNVSG	QPYII	QTNVF	ADQFD	. . . .	NRE	ERIY	LWFDPTEDFHTYSI	ILWLNLHQIVFMDWVP			
VvXTH06/1-282	NSAGTVTAYYLSS	... QG	STHDE	I	DEEEFELGNLSG	DPYII	HTNMF	TQGKG	. . . .	NRE	QFQY	LWFDPTRNF	HFTYSIIWTA	RHIIFLVDDVP		
VvXTH07/1-280	NSAGTVTAYYLSS	... QG	STHDE	I	DEEEFELGNLSG	DPYII	HTNMF	TQGKG	. . . .	NRE	QFQY	LWFDPTRNF	HFTYSVI	WNPQOIIIFLVDDNP		
VvXTH08/1-282	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNMF	TQGKG	. . . .	NRE	QFQY	LWFDPTRNF	HFTYSIAWSAQH	IIFLVDDNP		
VvXTH09/1-282	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNMF	TQGKG	. . . .	NRE	QFQY	LWFDPTRNF	HFTYSIAWSAQH	IIFLVDDNP		
VvXTH10/1-292	YTAGVITSFYLSN	NEDYPGNHDE	I	DEEEFELGTTLD	KPYTI	QTNVY	MKGSC	. . . .	DGR	LIGREV	KV	IHLWFDPTEDFHNYA	ILWT	PDEIIFLVDDVP		
VvXTH11/1-281	DSAGVVTAYYLTS	... HTK	NHDE	I	DEEEFELGNKEG	KPYTI	QTNVF	SNGQG	. . . .	DRE	QRI	LWFDP	TADFHYSYKIL	LNQHQIVFVDDIP		
VvXTH12/1-294	YTAGVITAFYLSN	NEAHPGFH	DEVD	I	EEFELGTTFG	KPYTI	QTNVY	I	RG	DGRI	IIGREM	KFELWFDP	TKDFHYA	ILWSPKDIIFVFDV		
VvXTH13/1-301	DSAGVVTAYYLSS	ENGACPERD	I	DEEEFELGNRSG	FPYII	QTNVY	NGTQG	. . . .	GRE	M	MRHM	LWFDPTEEEG	FSYISILWNLNEQ	IIFLVVDRVP		
VvXTH14/1-295	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNMF	TQGKG	. . . .	NRE	QFQY	LWFDPTRNF	HFTYSII	IWNPQR	IIFLVDDNP	
VvXTH15/1-291	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNMF	TQGKG	. . . .	NRE	QFQY	LWFDPTRNF	HFTYSII	IWNPQR	IIFLVDDNP	
VvXTH16/1-292	NSAGTVTAYYLSS	... T	QSKHDE	I	DEEEFELGNVSG	TPYTI	HTNLYT	QGNGC	. . . .	SRE	QFQY	LWFDP	TADFHNYT	IHWPNPTE	VVWYIDSIP	
VvXTH17/1-322	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TADFHFTYSI	LNWPQRI	IIFSVDGTP	
VvXTH18/1-370	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TADFHFTYSI	LNWPQRI	IIFSVDGTP	
VvXTH19/1-298	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TADFHFTYSI	LNWPQRI	IIFSVDGTP	
VvXTH20/1-286	NSAGTVTAYYLSS	... QG	SAHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDPTRNF	HFTYSIL	LNWPQRI	IIFLVDDGP	
VvXTH21/1-279	NSAGTVTAYYLSS	... P	GPT	TRD	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	ERE	QFQH	LWFDP	TADFHFTYSFT	WNPKH	IIFLVDDTP
VvXTH22/1-313	NSAGTVTAYYLSS	... L	GSTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TANFH	FTYSVLWNPNH	IILFSVDGTP	
VvXTH23/1-297	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TADFHFTYSV	LNWPQRI	IIFSVDGTP	
VvXTH24/1-298	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TADFHFTYSI	LNWPQRI	IIFSVDGTP	
VvXTH25/1-297	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TADFHFTYSI	LNWPQRI	IIFSVDGTP	
VvXTH26/1-297	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TADFHFTYSV	LNWPQRI	IIFSVDGTP	
VvXTH27/1-270	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TADFHFTYSI	LNWPQRI	IIFSVDGTP	
VvXTH28/1-297	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TADFHFTYSI	LNWPQRI	IIFSVDGTP	
VvXTH29/1-263	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TANFH	FTYSVLWNPNH	IILFSVDGTP	
VvXTH30/1-273	NSAGTVTAYYLSS	... QG	PTHDE	I	DEEEFELGNLSG	DPYII	HTNVS	QGKG	. . . .	NRE	QFQY	LWFDP	TANFH	FTYSVLWNPNH	IILFSVDGTP	
VvXTH31/1-297	D <del>SAGTVTAFYMSN</del>	DCPNHDE	PEEEF	I	LGNTTGE	PYLVQ	TNIYNG	VC	. . . .	NRE	QPLN	LWFDP	TKDFHYTF	MWNQOR	VVFLDETEP	
VvXTH32/1-323	DTAGVVVAFFTMN	QDIYSRNQDE	ATEEEF	I	LGNVKG	KEWV	QTNIHGNT	T	IRNSTSKGRE	ERYT	LWFDP	SADFH	KYSIL	WTENH	IIFYVDDVP	
VvXTH33/1-252	GTGVVVVAFDSMN	QDRYSKQNQDE	EVTEEEF	I	LGNVKG	KEWAV	QTNVHGN	T	IRNSTSKGRE	ERYT	LRFDP	SADFH	KYSIF	WTENH	IIFYVDDVP	
VvXTH34/1-285	D <del>SAGTVTALYMAS</del>	D	GLNHDE	ELDPE	I	LGNVSG	EPYLV	QTNVY	VNGT	. . . .	NRE	QRH	LWFDP	AAEFT	HTYSFLWNRY	IIFLVDDVP

	120	130	140	150	160	170	180	190																						
VvXTH01/1-280	I	REIKRT	TEAMGGD	FPS	KPMSLYATI	WDGSB	WTNG	GRYRV	NYKYAE	YVAF	EFSN	ILV	L	HGC	AVDPIEKSP.	. . . .	C	D	N	G	P	. . . .	TSKASI							
VvXTH02/1-314	I	REILYND	AISSV	YPS	S.KPMNSV	ATI	WDGSB	WTNG	KYAE	YVAF	EFSN	ILV	L	HGC	AVDPIEKSP.	. . . .	C	SKG	S	VSSRDP	V	DVGEE								
VvXTH03/1-308	I	RVFKNSKD	LGVKPF	F	DQPMK	IYSSL	WLNADD	WATR	TRG	GLEK	T	DWSK	KA	PF	VAS	YKSFHV	. . . .	F	CAT	Q	GKRW	. . .	WDQRE							
VvXTH04/1-342	I	REVRN	BAAMGGD	YPS	S.KPMALY	ATI	WDAS	WLNADD	WATR	TRG	GK	YKVD	NY	TA	F	FSV	ESDFV	L	DGC	P	ADPLQLAS	. . .	ELESND							
VvXTH05/1-295	I	RVYRHN	ADK	GVAFFP	RWQ	PM	SIKIS	WLNG	SD	TRG	CKD	K	ID	DWT	K	PF	FIAS	FRNY	KL	DAC	I	WRGNAR	. . . .	FCRAD						
VvXTH06/1-282	I	RLFKN	AE	SMGV	PFF	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	NS	. . . .	STPT					
VvXTH07/1-280	I	RLFKN	AE	SMGV	PFF	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	STSSN					
VvXTH08/1-282	I	RLFKN	AE	SMGV	PFF	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	STSSN					
VvXTH09/1-282	I	RLFKN	AE	SMGV	PFF	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	STSSN					
VvXTH10/1-292	I	RVYPRKND	. . .	ATFP	A	RPFWY	GSIW	DASS	WATR	TRG	GYK	ADY	YRQ	EF	I	GRY	KNF	KL	GCG	T	TTDAAS	. . . .	CRPPS							
VvXTH11/1-281	I	RVFKNSN	I	YGDY	YPS	S.QPM	OILEG	S	WLNG	SE	WATR	TRG	CKD	T	DWT	K	PF	TRH	FQGR	RI	DGC	CPSDYS	. . . .	N						
VvXTH12/1-294	I	RVYPRKSA	. . .	TTFP	L	RPW	MLY	GSIW	DASS	WATR	TRG	GYK	ADY	YRQ	EF	FVGQ	YSNF	KA	SGC	SAYSPAS	. . . .	CRPV	S	. . . .	ASPYR					
VvXTH13/1-301	I	RVYKNN	NGKANN	FF	NE	KPM	YI	LESSI	WLNADD	WATR	TRG	GYK	AD	YRQ	EF	VSS	YKDF	SV	DGC	QWEDPY	P	Y	AC	CVST	T	Q	. . . .	NWDQYE		
VvXTH14/1-295	I	RFQN	QE	SIG	GP	FKS	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	STSSN					
VvXTH15/1-291	I	REFKN	QE	SIGV	PFF	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	STSSN					
VvXTH16/1-292	I	RFVFRN	YE	NE	GIAY	SKQGM	RVY	SS	IWNAD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	ISPPSS						
VvXTH17/1-322	I	REFKN	SE	SIGV	SY	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	TPSTSTNTEWY					
VvXTH18/1-370	I	REFKN	SE	SIGV	SY	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	CSST					
VvXTH19/1-298	I	REFKN	SE	SIGV	PY	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	CSST					
VvXTH20/1-286	I	REFKN	SE	SIGV	PY	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	CSST					
VvXTH21/1-279	I	REFKN	LE	SIGV	QYP	KN	QAM	SLY	SS	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	CSKFTS					
VvXTH22/1-313	I	REFKN	LE	AMG	PFF	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	KA	PF	TA	Y	YRN	RA	ST	. . . .	PVSNI					
VvXTH23/1-297	I	REFKN	SE	SIGV	Y	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	LA	PF	TA	Y	YRN	RA	ST	. . . .	IAWQ					
VvXTH24/1-298	I	REFKN	SE	SIGV	Y	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	LA	PF	TA	Y	YRN	RA	ST	. . . .	CSKFTS					
VvXTH25/1-297	I	REFKN	SE	SIGV	PFF	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	QA	PF	TA	Y	YRN	RA	ST	. . . .	CSKFTS					
VvXTH26/1-297	I	REFKN	SE	SIGV	Y	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWS	QA	PF	TA	Y	YRN	RA	ST	. . . .	CSKFTS					
VvXTH27/1-270	I	REFKN	SE	SIGV	PFF	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWT	QA	PF	TA	Y	YRN	RA	ST	. . . .	CSKFTS					
VvXTH28/1-297	I	REFKN	SE	SIGV	PFF	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWT	QA	PF	TA	Y	YRN	RA	ST	. . . .	CSKFTS					
VvXTH29/1-263	I	REFKN	SE	SIGV	Y	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWT	QA	PF	TA	Y	YRN	RA	ST	. . . .	CSKFTS					
VvXTH30/1-273	I	REFKN	SE	SIGV	Y	KN	QPMR	IYSS	SLW	WLNADD	WATR	TRG	GLV	K	T	DWT	QA	PF	TA	Y	YRN	RA	ST	. . . .	CSKFTS					
VvXTH31/1-297	I	RVHTN	MEKHGLP	FF	KDQM	GVY	SS	IWNADD	WATR	TRG	GLV	K	T	DWT	QA	PF	TA	Y	YGF	EI	A	YKGF	EI	DAC	ECP	IAVAADDNAKR	CS	SGE	. . . .	KRYWWDEPT
VvXTH32/1-323	I	REFM	RKIA	IGNY	FIA	SP	MYV	HGS	IRD	GS	T	DG	KQ	V	DY	YR	GF	ET	AS	Y	KGF	EI	DAC	ECP	IAVAADDNAKR	CS	SGE	. . . .	PWEKKV	
VvXTH33/1-252	I	REFM	RKIA	IGNY	FIA	SP	MYV	HGS	IRD	GS	T	DG	KQ	V	DY	YR	GF	ET	AS	Y	KGF	EI	DAC	ECP	IAVAADDNAKR	CS	SG			

	200	210	220	230	240	250	260	270
VvXTH01/1-280	P	T	G	I	M	P	E	R
VvXTH02/1-314	F	A	K	L	S	E	M	N
VvXTH03/1-308	F	Q	D	L	S	L	E	R
VvXTH04/1-342	Y	S	A	I	T	P	L	R
VvXTH05/1-295	F	S	S	T	T	O	R	T
VvXTH06/1-282	T	Q	E	L	D	S	Y	S
VvXTH07/1-280	F	Q	E	L	D	A	N	S
VvXTH08/1-282	T	Q	E	L	D	A	S	R
VvXTH09/1-282	T	Q	E	L	D	A	Y	R
VvXTH10/1-292	A	G	G	L	S	Q	O	Y
VvXTH11/1-281	F	W	K	L	D	S	T	O
VvXTH12/1-294	S	G	R	L	T	G	Q	Y
VvXTH13/1-301	A	W	H	L	S	D	S	R
VvXTH14/1-295	T	Q	G	L	D	A	S	R
VvXTH15/1-291	N	Q	G	L	D	A	S	R
VvXTH16/1-292	Y	S	Q	L	S	Y	A	K
VvXTH17/1-322	S	Q	E	L	D	S	T	S
VvXTH18/1-370	S	Q	E	L	D	S	T	S
VvXTH19/1-298	S	Q	E	L	D	S	T	S
VvXTH20/1-286	Y	Q	E	L	D	S	T	S
VvXTH21/1-279	A	P	E	L	D	A	S	R
VvXTH22/1-313	K	H	E	L	D	S	T	S
VvXTH23/1-297	S	Q	E	L	D	S	T	S
VvXTH24/1-298	S	Q	E	L	D	S	T	S
VvXTH25/1-297	S	Q	E	L	D	S	T	S
VvXTH26/1-297	S	Q	E	L	D	S	T	S
VvXTH27/1-270	Q	.	.	.	F	Q	N	K
VvXTH28/1-297	S	Q	E	L	D	S	T	S
VvXTH29/1-263	S	Q	E	L	D	S	T	S
VvXTH30/1-273	S	Q	E	L	D	S	T	S
VvXTH31/1-297	L	A	E	L	N	L	W	V
VvXTH32/1-323	P	T	G	L	T	R	K	E
VvXTH33/1-252	.	.	.	.	.	.	.	.
VvXTH34/1-285	M	S	G	L	N	R	H	K
	N	R	H	K	S	H	Q	L
	L	W	V	R	R	H	L	V
	V	V	Y	D	Y	C	M	D
	S	G	R	E	P	E	I	.

VvXTH01/1-280	I.
VvXTH02/1-314	.
VvXTH03/1-308	.
VvXTH04/1-342	A.
VvXTH05/1-295	.
VvXTH06/1-282	.
VvXTH07/1-280	.
VvXTH08/1-282	.
VvXTH09/1-282	.
VvXTH10/1-292	.
VvXTH11/1-281	.
VvXTH12/1-294	.
VvXTH13/1-301	.
VvXTH14/1-295	.
VvXTH15/1-291	.
VvXTH16/1-292	.
VvXTH17/1-322	.
VvXTH18/1-370	.
VvXTH19/1-298	.
VvXTH20/1-286	.
VvXTH21/1-279	.
VvXTH22/1-313	.
VvXTH23/1-297	.
VvXTH24/1-298	.
VvXTH25/1-297	.
VvXTH26/1-297	.
VvXTH27/1-270	.
VvXTH28/1-297	.
VvXTH29/1-263	.
VvXTH30/1-273	.
VvXTH31/1-297	.
VvXTH32/1-323	.
VvXTH33/1-252	.
VvXTH34/1-285	.