

gi_51338669_sp	-----	-----	RSLD	GRLQVSHRKG	LPHVIYCRLW	RWPDLDHSHHE
gi_60414603_sp	-----	-----	RSLD	GRLQVSHRKG	LPHVIYCRLW	RWPDLDHSHHE
gi_117949830_sp	VDQWDTTGLY	SFSEQTRSLD	GRLQVSHRKG	LPHVIYCRLW	RWPDLDHSHHE	
gi_13633871_sp	VDQWDTTGLY	SFSEQTRSLD	GRLQVSHRKG	LPHVIYCRLW	RWPDLDHSHHE	
gi_13633914_sp	IDQWDTTGLY	SFSEQTRSLD	GRLQVSHRKG	LPHVIYCRLW	RWPDLDHSHHE	
gi_75041393_sp	IDQWDTTGLY	SFSEQTRSLD	GRLQVSHRKG	LPHVIYCRLW	RWPDLDHSHHE	
gi_110826300_sp	IDQWDTTGLY	SFSEQTRSLD	GRLQVSHRKG	LPHVIYCRLW	RWPDLDHSHHE	
gi_21264050_sp	IEQWDTSGLY	SYPDQTRSLD	GRLQVSHRKG	LPHVIYCRLW	RWPDLDHSHHE	
Consistency	0000000000	000000****	*****8*	*****7****		

	.....	160.....	170.....	180.....	190.....	200
gi_13633932_sp	LKPLECCEFP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HSEYNPQHSL	
gi_118573879_sp	LKPLECCEFP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HSEYNPQHSL	
gi_13633915_sp	LKPLECCEFP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HSEYNPQHSL	
gi_341942042_sp	LKPLECCEFP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HSEYNPQHSL	
gi_13633872_sp	LKPLECCEFP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HSEYNPQHSL	
gi_13959533_sp	LKPLDICEFP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HNEFNPQHSL	
gi_13959566_sp	LKPLDICEFP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HNEFNPQHSL	
gi_13959559_sp	LKPLDICEFP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HNEFNPQHSL	
gi_82121811_sp	LKPLDICEFP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HSEFNPQHSL	
gi_21264062_sp	LKPLEVCEYP	FGSKQKEVCI	NPYHYKRVES	PVLPPVLVPR	HSEFNPQHSL	
gi_21264049_sp	LKALECCEFP	FGSKQKDVCI	NPYHYKRVD	PVLPPVLVPR	NSEFNKLSM	
gi_13959539_sp	LKPLECCEFP	FGSKQKEVCI	NPYHYRRVET	PVLPPVLVPR	HSEYNPQLSL	
gi_66774168_sp	LKPLECCEFP	FGSKQKEVCI	NPYHYRRVET	PVLPPVLVPR	HSEYNPQLSL	
gi_13959527_sp	LKPLECCEFP	FGSKQKEVCI	NPYHYRRVET	PVLPPVLVPR	HSEYNPQLSL	
gi_51338669_sp	LRAMELCEFA	FNMKKDEVCV	NPYHYQRVET	PVLPPVLVPR	HTEIPAEPFP	
gi_60414603_sp	LRAMEMCEYA	FNMKKDEVCV	NPYHYQRVET	PVLPPVLVPR	HTEIPAEPFP	
gi_117949830_sp	LKAIENCEYA	FNLKKDEVCV	NPYHYQRVET	PVLPPVLVPR	HTEILTELPP	
gi_13633871_sp	LKAIENCEYA	FNLKKDEVCV	NPYHYQRVET	PVLPPVLVPR	HTEILTELPP	
gi_13633914_sp	LKAIENCEYA	FNLKKDEVCV	NPYHYQRVET	PVLPPVLVPR	HTEILTELPP	
gi_75041393_sp	LKAIENCEYA	FNLKEDEVCV	NPYHYQRVET	PVLPPVLVPR	HTEILTELPP	
gi_110826300_sp	LKAIENCEYA	FNLKKDEVCV	NPYHYQRVET	PVLPPVLVPR	HTEILTELPP	
gi_21264050_sp	LRAIETCEYA	FNLKKDEVCV	NPYHYQRVET	PVLPPVLVPR	HTEILTELPP	
Consistency	*96884**86	*66*769**9	*****7**97	*****97*6568565		

	.....	210.....	220.....	230.....	240.....	250
gi_13633932_sp	LAQFRN-LGQ	NEPHMPHNAT	FPDSFQQ-P-	NSHPF-PHSP	NSSYPNSPGS	
gi_118573879_sp	LAQFRN-LGQ	NEPHMPLNAT	FPDSFQQ-P-	NSHPF-PHSP	NSSYPNSPGS	
gi_13633915_sp	LAQFRN-LGQ	NEPHMPLNAT	FPDSFQQ-P-	NSHPF-PHSP	NSSYPNSPGS	
gi_341942042_sp	LAQFRN-LGQ	NEPHMPLNAT	FPDSFQQ-P-	NSHPF-PHSP	NSSYPNSPGG	
gi_13633872_sp	LAQFRN-LGQ	NEPHMPLNAT	FPDSFQQ-P-	HSHPF-AQYP	NSSYPNSPGS	
gi_13959533_sp	LVQFRN-LSH	NEPHMPQONAT	FPDSFHQ-P-	NSTPF-PLSP	NSPYPPSP-A	
gi_13959566_sp	LVQFRN-LSH	NEPHMPQONAT	FPDSFHQ-P-	NNTPF-PLSP	NSPYPPSP-A	
gi_13959559_sp	LVQFRN-LSH	NEPHMPQONAT	FPDSFHQ-P-	NNAPF-PLSP	NSPYPPSP-A	
gi_82121811_sp	LVQFRN-LSH	NEPHMPHNAT	FPDSFQQ-P-	NSTPF-SISP	NSPYPPSP-A	
gi_21264062_sp	LVQFRN-LSH	NEPHMPLNAT	FPESFQQHS-	GGSSF-PISP	NSPYPPSP-A	
gi_21264049_sp	LPRFRNPLHQ	TEPPMPQONAT	FPDSFPQQPA	NALPFTPNSP	TNSYPSSPNS	
gi_13959539_sp	LAKFRSASLH	SEPLMPHNAT	YPDSFQQ---	PPCSALPPSP	SHAFSQSP--	
gi_66774168_sp	LAKFRSASLH	SEPLMPHNAT	YPDSFQQ---	SLCPAPPSSP	GHVFPOQSP--	
gi_13959527_sp	LAKFRSASLH	SEPLMPHNAT	YPDSFQQ---	SLGPAPPSSP	GHVFPOQSP--	
gi_51338669_sp	LDDY-----SH	S---IPENTN	FPAGIE-----	-----P	QSN-----	
gi_60414603_sp	LDDY-----SH	S---IPENTN	FPAGIE-----	-----P	QSNY-----	
gi_117949830_sp	LDDY-----TH	S---IPENTN	FPAGIE-----	-----P	QSNY-----	
gi_13633871_sp	LDDY-----TH	S---IPENTN	FPAGIE-----	-----P	QSNY-----	
gi_13633914_sp	LDDY-----TH	S---IPENTN	FPAGIE-----	-----P	QSNY-----	
gi_75041393_sp	LDDY-----TH	S---IPENTN	FPAGIE-----	-----P	QSNY-----	
gi_110826300_sp	LDDY-----TH	S---IPENTN	FPAGIE-----	-----P	QSNY-----	
gi_21264050_sp	LDDY-----TN	S---IPENTN	FPTGIE-----	-----P	PNNY-----	
Consistency	*468330247	73328*4*77	9*57763020	221320313*	5748313301	

	.....	260.....	270.....	280.....	290.....	300
gi_13633932_sp	SSSTYPH	SPAS-SDPGS	PFQMPADTPP	PAYLPPE-DQ	MTHDTSQPM	
gi_118573879_sp	SSSTYPH	SPTS-SDPGS	PFQMPADTPP	PAYLPPE-DP	MTQDGSQPM	
gi_13633915_sp	SSSTYPH	SPTS-SDPGS	PFQMPADTPP	PAYLPPE-DP	MTQDGSQPM	
gi_341942042_sp	SSSTYPH	SPTS-SDPGS	PFQMPADTPP	PAYLPPE-DP	MAQDGSQPM	
gi_13633872_sp	SSSTYPH	SPTS-SDPGS	PFQMPADTPP	PAYLPPE-DP	MAQDGSQPM	
gi_13959533_sp	SS-TYPN	SPAS-SGPGS	PFQLPADTPP	PAYMPPD-DQ	MGQDNSQPM	
gi_13959566_sp	SS-TYPN	SPAS-SGPGS	PFQLPADTPP	PAYMPPD-DQ	MGQDNSQPM	
gi_13959559_sp	SS-TYPN	SPAS-SGPGS	PFQLPADTPP	PAYMPPD-DQ	MAPDNSQPM	
gi_82121811_sp	SS-TYPS	SPAS-SGPSS	PFQLPADTPP	PAYMPPD-DQ	MGQDNSQSM	
gi_21264062_sp	SSGTYPN	SPAS-SGPSS	PFQLPADTPP	PAYMPPD-EQ	MGQDGSQSM	
gi_21264049_sp	GTGSTATFPH	SPSS-SDPGS	PFQMP-ETPP	PAYMPPE-EP	MTQDCPQPM	
gi_13959539_sp	CTASYPH	SPGSPSEDES	PYQHSVDTPP	LPYHATE-AS	ETQSG-QPVD	
gi_66774168_sp	CPTSYPH	SPGSPSEDES	PYQHS-----	-----	-----	
gi_13959527_sp	CPTSYFQ	SPGSPSEDES	PYQHS-----	-----	-----	

gi_51338669_sp	-----IP-	-----	-----	ETPP	PGYLSE	DGET	SDHQMN	HSMD
gi_60414603_sp	-----IP-	-----	-----	ETPP	PGYLSE	DGET	SDHQMN	PSMD
gi_117949830_sp	-----IP-	-----	-----	ETPP	PGYLSE	DGET	SDQQLN	QSM
gi_13633871_sp	-----IP-	-----	-----	ETPP	PGYLSE	DGET	SDQQLN	QSM
gi_13633914_sp	-----IP-	-----	-----	ETPP	PGYLSE	DGET	SDQQLN	QSM
gi_75041393_sp	-----IP-	-----	-----	ETPP	PGYLSE	DGET	SDQQLN	QSM
gi_110826300_sp	-----IP-	-----	-----	ETPP	PGYLSE	DGET	SDQQLN	QSM
gi_21264050_sp	-----IP-	-----	-----	ETPP	PGYLSE	DGEA	SDQQMN	QSM
Consistency	00022136*	2	3323032323	333222	6888	7585556164	5365357577	

	.....310.....320.....330.....340.....350	
gi_13633932_sp	---TNMMAPG IHPDIHRG-	D VQAVAYE EEPK HWCSIVYYEL NNRVGEAFHA
gi_118573879_sp	---TNMMAPS LPSEINRG-	D VQAVAYE EEPK HWCSIVYYEL NNRVGEAFHA
gi_13633915_sp	---TNMMAPP LPSEINRG-	D VQAVAYE EEPK HWCSIVYYEL NNRVGEAFHA
gi_341942042_sp	---TNMMAPP LPAEISRG-	D VQAVAYE EEPK HWCSIVYYEL NNRVGEAFHA
gi_13633872_sp	TNMTNMTAPT LPAEINRG-	D VQAVAYE EEPK HWCSIVYYEL NNRVGERFHA
gi_13959533_sp	T--SNNMIPQ IMPSISSR-	D VQPVAYE EEPK HWCSIVYYEL NNRVGEAFHA
gi_13959566_sp	T--SNNMIPQ IMPSISSR-	D VQPVAYE EEPK HWCSIVYYEL NNRVGEAFHA
gi_13959559_sp	T--SSNMIPQ TMPSISSR-	D VQPVAYE EEPK HWCSIVYYEL NNRVGEAFHA
gi_82121811_sp	T--SNTMIPQ IMPNISTR-	D VQPVAYE EEPK HWCSIVYYEL NNRVGEAFHA
gi_21264062_sp	T--GSSLAPQ NMPR--G-	D VQPVVEYQE PS HWCSIVYYEL NNRVGEAYHA
gi_21264049_sp	---TNLLAPN LPLEISNRT	D VHPVAYQE PK HWCSIVYYEL NNRVGEAFHA
gi_13959539_sp	ATADRHVVLS IPNG----	D FRPVCYE EEPQ HWCSVAYYEL NNRVGETFQA
gi_66774168_sp	-----	D FRPVCYE EEPQ HWCSVAYYEL NNRVGETFQA
gi_13959527_sp	-----	D FRPVCYE EEPQ HWCSVAYYEL NNRVGETFQA
gi_51338669_sp	AGSP--NLSPN PMSPAHHNLD	LQPVITYCEPA FWCSISYYEL NQRVGETFHA
gi_60414603_sp	AGSP--NLSPN PMSPAHHNLD	LQPVITYCEPA FWCSISYYEL NQRVGETFHA
gi_117949830_sp	TGSPAELSP T LSPVNHSLD	LQPVITYSEPA FWCSIAYYEL NQRVGETFHA
gi_13633871_sp	TGSPAELSP T LSPVNHSLD	LQPVITYSEPA FWCSIAYYEL NQRVGETFHA
gi_13633914_sp	TGSPAELSP T LSPVNHSLD	LQPVITYSEPA FWCSIAYYEL NQRVGETFHA
gi_75041393_sp	TGSPAELSP T LSPVNHSLD	LQPVITYSEPA FWCSIAYYEL NQRVGETFHA
gi_110826300_sp	TGSPAELSP T LSPVNHSLD	LQPVITYSEPA FWCSIAYYEL NQRVGETFHA
gi_21264050_sp	TGSPAELSP S T LSPVNHGMD	LQPVITYSEPA FWCSIAYYEL NQRVGETFHA
Consistency	3114336574	444354331* 787*5*6**5 6***96**** *7****697*

	.....360.....370.....380.....390.....400	
gi_13633932_sp	SSTSVLVDGF TDPSNNKNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_118573879_sp	SSTSVLVDGF TDPSNNKNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_13633915_sp	SSTSVLVDGF TDPSNNKNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_341942042_sp	SSTSVLVDGF TDPSNNKNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_13633872_sp	SSTSVLVDGF TDPSNNKNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_13959533_sp	SSTSVLVDGF TDPANNKS RF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_13959566_sp	SSTSVLVDGF TDPSNNKS RF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_13959559_sp	SSTSVLVDGF TDPSNNKS RF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_82121811_sp	SSTSVLVDGF TDPSNNKNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_21264062_sp	SSTSVLVDGF TDPSNNKNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_21264049_sp	SSTSVLVDGF TDPSNNRNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_13959539_sp	SSRSVLIDGF TDPSNNRNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_66774168_sp	SSRSVLIDGF TDPSNNRNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_13959527_sp	SSRSVLIDGF TDPSNNRNRF	CLGLLSNVNR NSTIENTRRH IGKGVHLYYV
gi_51338669_sp	SQPSMTVDGF TDPSNSE- RF	CLGLLSNVNR NAAVELTRRH IGRGVRLYYI
gi_60414603_sp	SQPSMTVDGF TDPSNSE- RF	CLGLLSNVNR NAAVELTRRH IGRGVRLYYI
gi_117949830_sp	SQPSLTVDGF TDPSNSE- RF	CLGLLSNVNR NATVEMTRRH IGRGVRLYYI
gi_13633871_sp	SQPSLTVDGF TDPSNSE- RF	CLGLLSNVNR NATVEMTRRH IGRGVRLYYI
gi_13633914_sp	SQPSLTVDGF TDPSNSE- RF	CLGLLSNVNR NATVEMTRRH IGRGVRLYYI
gi_75041393_sp	SQPSLTVDGF TDPSNSE- RF	CLGLLSNVNR NATVEMTRRH IGRGVRLYYI
gi_110826300_sp	SQPSLTVDGF TDPSNSE- RF	CLGLLSNVNR NATVEMTRRH IGRGVRLYYI
gi_21264050_sp	SQPSLTVDGF TDPSNSE- RF	CLGLLSNVNR NATVEMTRRH IGRGVRLYYI
Consistency	*75*769***	***9*773** ***** *899*5***** **8**7***9

	.....410.....420.....430.....440.....450	
gi_13633932_sp	GGEVYAECLS DSSIFVQSRN	CNYHHGHFHT TVCKIPSGCS LKIFNNQEF-
gi_118573879_sp	GGEVYAECLS DSSIFVQSRN	CNYHHGHFHT TVCKIPSGCS LKIFNNQEF-
gi_13633915_sp	GGEVYAECLS DSSIFVQSRN	CNYHHGHFHT TVCKIPSGCS LKIFNNQEF-
gi_341942042_sp	GGEVYAECLS DSSIFVQSRN	CNYHHGHFHT TVCKIPSGCS LKIFNNQEF-
gi_13633872_sp	GGEVYAECLS DSSIFVQSRN	CNYHHGHFHT TVCKIPSGCS LKIFNNQEF-
gi_13959533_sp	GGEVYAECLS DSSIFVQSRN	CNFHHGHFHT TVCKIPSSCS LKIFNNQEF-
gi_13959566_sp	GGEVYAECLS DSSIFVQSRN	CNFHHGHFHT TVCKIPSSCS LKIFNNQEF-
gi_13959559_sp	GGEVYAECLS DSSIFVQSRN	CNFHHGHFHT TVCKIPSSCS LKIFNNQEF-
gi_82121811_sp	GGEVYAECLS DSSIFVQSRN	CNYHHGHFHT TVCKIPSGCS LKIFNNQEF-
gi_21264062_sp	GGEVYAECLS DTSIFVQSRN	CNYHHGHFHT TVCKIPSGCS LKIFNNQEF-
gi_21264049_sp	GGEVYAECLS DSSIFVQSRN	CNYHHGHFHT TVCKIPSRCS LKIFNNQEF-
gi_13959539_sp	GGEVYAE CVS DSSIFVQSRN	CNYQHGHFHPA TVCKIPSGCS LKVFNNQLF-
gi_66774168_sp	GGEVYAE CVS DSSIFVQSRN	CNYQHGHFHPA TVCKIPSGCS LKVFNNQLF-
gi_13959527_sp	GGEVYAE CVS DSSIFVQSRN	CNYQHGHFHPA TVCKIPSGCS LKVFNNQLF-

gi_51338669_sp	GGEVFAECLS	DSAlFVQSPN	CNQR	RYGWHPA	TVCKIPP	GCN	LKIFNNQEF	-
gi_60414603_sp	GGEVFAECLS	DSAlFVQSPN	CNQR	RYGWHPA	TVCKIPP	GCN	LKIFNNQEF	-
gi_117949830_sp	GGEVFAECLS	DSAlFVQSPN	CNQR	RYGWHPA	TVCKIPP	GCN	LKIFNNQEF	-
gi_13633871_sp	GGEVFAECLS	DSAlFVQSPN	CNQR	RYGWHPA	TVCKIPP	GCN	LKIFNNQEF	-
gi_13633914_sp	GGEVFAECLS	DSAlFVQSPN	CNQR	RYGWHPA	TVCKIPP	GCN	LKIFNNQEF	-
gi_75041393_sp	GGEVFAECLS	DSAlFVQSPN	CNQR	RYGWHPA	TVCKIPP	GCN	LKIFNNQEF	-
gi_110826300_sp	GGEVFAECLS	DSAlFVQSPN	CNQR	RYGWHPA	TVCKIPP	GCN	LKIFNNQGF	-
gi_21264050_sp	GGEVFAECLS	DSAlFVQSPN	CNQR	RYGWHPA	TVCKIPP	GCN	LKIFNNQEF	-
Consistency	***8***9*	*98*****6*	**567*7**7	*****68*7	**9*****7*0			

			460		470		480		490		500
gi_13633932_sp	---	AQLLAQS	VNHGFETVYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_118573879_sp	---	AQLLAQS	VNHGFETVYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_13633915_sp	---	AQLLAQS	VNHGFETVYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_341942042_sp	---	AQLLAQS	VNHGFETVYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_13633872_sp	---	AQLLAQS	VNHGFETEYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_13959533_sp	---	AQLLAQS	VNHGFEA VYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_13959566_sp	---	AQLLAQS	VNHGFEA VYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_13959559_sp	---	AQLLAQS	VNHGFEA VYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_82121811_sp	---	AQLLAQS	VNHGFEA VYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_21264062_sp	---	AQLLAQS	VNHGFEA VYE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_21264049_sp	---	AELLAQS	VNHGFEA VYE	LTKMCTLRMS	FVKGWGA KYH	RQD	VTSTPCW				
gi_13959539_sp	---	AQLLAQS	VHHGFEE VVE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_66774168_sp	---	AQLLAQS	VHHGFEE VVE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_13959527_sp	Q L L	AQLLAQS	VHHGFEE VVE	LTKMCTLRMS	FVKGWGAEYH	RQD	VTSTPCW				
gi_51338669_sp	---	AALLAQS	VNQGFEAVYQ	LTRMCTLRMS	FVKGWGAEYR	RQT	VTSTPCW				
gi_60414603_sp	---	AALLAQS	VNQGFEAVYQ	LTRMCTLRMS	FVKGWGAEYR	RQT	VTSTPCW				
gi_117949830_sp	---	AALLAQS	VNQGFEAVYQ	LTRMCTLRMS	FVKGWGAEYR	RQT	VTSTPCW				
gi_13633871_sp	---	AALLAQS	VNQGFEAVYQ	LTRMCTLRMS	FVKGWGAEYR	RQT	VTSTPCW				
gi_13633914_sp	---	AALLAQS	VNQGFEAVYQ	LTRMCTLRMS	FVKGWGAEYR	RQT	VTSTPCW				
gi_75041393_sp	---	AALLAQS	VNQGFEAVYQ	LTRMCTLRMS	FVKGWGAEYR	RQT	VTSTPCW				
gi_110826300_sp	---	AALLAQS	VNQGFEAVYQ	LTRMCTLRMS	FVKGWGAEYR	RQT	VTSTPCW				
gi_21264050_sp	---	AALLAQS	VNQGFEAVYQ	LTRMCTLRMS	FVKGWGAEYR	RQT	VTSTPCW				
Consistency	000	*6*****	*87***79*8	**8***9***	*****9*7	**6*****					

			510		520		530
gi_13633932_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPHNPI	SSVS	
gi_118573879_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPHNPI	SSVS	
gi_13633915_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPHNPI	SSVS	
gi_341942042_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPHNPI	SSVS	
gi_13633872_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPHNPI	SSVS	
gi_13959533_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPLNPI	SSVS	
gi_13959566_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPLNPI	SSVS	
gi_13959559_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPLNPI	SSVS	
gi_82121811_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPLNPI	SSVS	
gi_21264062_sp	IEVHLHG	PLQ	WLDKVL	TQMG	SPLNPI	SSVS	
gi_21264049_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPHNPI	SSVS	
gi_13959539_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPHNPI	SSVS	
gi_66774168_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPHNPI	SSVS	
gi_13959527_sp	IEIHLHG	PLQ	WLDKVL	TQMG	SPHNPI	SSVS	
gi_51338669_sp	IELHLNG	PLQ	WLDKVL	TQMG	SPSIRC	SSVS	
gi_60414603_sp	IELHLNG	PLQ	WLDKVL	TQMG	SPSIRC	SSVS	
gi_117949830_sp	IELHLNG	PLQ	WLDKVL	TQMG	SPSVRC	SSMS	
gi_13633871_sp	IELHLNG	PLQ	WLDKVL	TQMG	SPSVRC	SSMS	
gi_13633914_sp	IELHLNG	PLQ	WLDKVL	TQMG	SPSVRC	SSMS	
gi_75041393_sp	IELHLNG	PLQ	WLDKVL	TQMG	SPSVRC	SSMS	
gi_110826300_sp	IELHLNG	PLQ	WLDKVL	TQMG	SPSVRC	SSMS	
gi_21264050_sp	IELHLNG	PLQ	WLDKVL	TQMG	SPSVRC	SSMS	
Consistency	**8**7*****				**4566**8*		