Table S5. The list of ABRs and CDRs for which we performed the in-silico alanine scan analysis as well as which residues are Ag binding residues. Ag binding residues are marked in bold.

ID	Paratome	Kabat	Chothia	IMGT
1A3R-L1	QSLL**N**S**RT**QKN**YLT**	KSSQSLL**N**S**RT**QKN**YLT**	KSSQSLL**N**S**RT**QKN**YLT**	QSLL**N**S**RT**QKN**Y**
1A3R-L2	**L**LIY**W**ASTRES	**W**ASTRES	**W**ASTRES	**W**AS
1A3R-L3	**QNNYNY**P**L**	**QNNYNY**P**L**T	**QNNYNY**P**L**T	**QNNYNY**P**L**T
1A3R-H1	FNI**KDIY**I**H**	**DIY**I**H**	GFNI**KDI**	GFNI**KDIY**
1A3R-H2	WIG**RLDPAN**G**YTK**Y	**RLDPAN**G**YTK**YDPKFQG	**DPAN**G**Y**	**LDPAN**G**YT**
1A3R-H3	**GYYSYYDMD**Y	**YYSYYDMD**Y	**YYSYYDMD**Y	**DGYYSYYDMD**Y
1ACY-L1	ESV**DSY**GKS**F**MH	RASESV**DSY**GKS**F**MH	RASESV**DSY**GKS**F**MH	ESV**DSY**GKS**F**
1ACY-L2	VLIYIASNLES	IASNLES	IASNLES	IAS
1ACY-L3	QQ**NNEDPP**	QQ**NNEDPP**T	QQ**NNEDPP**T	QQ**NNEDPP**T
1ACY-H1	FSITR**TNYC**WH	R**TNYC**WH	GFSITR**TNY**	GFSITR**TN**
1ACY-H2	WMG**R**I**CYE**G**S**IYY	**R**I**CYE**G**S**IYYSPSIKS	**CYE**G**S**	I**CYE**G**S**I
1ACY-H3	R**E**N**HMYET**YFDV	**E**N**HMYET**YFDV	**E**N**HMYET**YFDV	SR**E**N**HMYET**YFDV
1ADQ-L1	NIGSK**S**VH	GGNNIGSK**S**VH	GGNNIGSK**S**VH	NIGSK**S**
1ADQ-L2	LVV**YD**DS**DRPP**	**D**DS**DRPP**	**D**DS**DRPP**	**D**DS
1ADQ-L3	QVWDSSSDHA	QVWDSSSDHAV	QVWDSSSDHAV	QVWDSSSDHAV
1ADQ-H1	F**T**F**DDY**AMH	**DY**AMH	**G**F**T**F**DDY**	**G**F**T**F**DDY**A
1ADQ-H2	WVSGIS**W**NTGTIIY	GIS**W**NTGTIIYADSVKG	S**W**NTGT	IS**W**NTGTI
1ADQ-H3	KT**RSYVV**A**AE**Y**Y**F**HY**	T**RSYVV**A**AE**Y**Y**F**HY**	T**RSYVV**A**AE**Y**Y**F**HY**	AKT**RSYVV**A**AE**Y**Y**F**HY**
1AFV-L1	ESV**DNYGI**S**F**MN	RASESV**DNYGI**S**F**MN	RASESV**DNYGI**S**F**MN	ESV**DNYGI**S**F**
1AFV-L2	LLIYAASNLGS	AASNLGS	AASNLGS	AAS
1AFV-L3	QQ**SKEVPL**	QQ**SKEVPL**T	QQ**SKEVPL**T	QQ**SKEVPL**T
1AFV-H1	YTFTSS**W**I**H**	SS**W**I**H**	GYTFTSS	GYTFTSS**W**
1AFV-H2	**W**IG**E**IHPNSGNT**N**Y	**E**IHPNSGNT**N**YNEKFKG	HPNSGN	IHPNSGNT
1AFV-H3	R**WRYGSPY**YFDY	**WRYGSPY**YFDY	**WRYGSPY**YFDY	AR**WRYGSPY**YFDY
1AHW-L1	**Q**DI**R**K**Y**LN	KAS**Q**DI**R**K**Y**LN	KAS**Q**DI**R**K**Y**LN	**Q**DI**R**K**Y**
1AHW-L2	TLIY**Y**ATSLAD	**Y**ATSLAD	**Y**ATSLAD	**Y**AT
1AHW-L3	LQ**HGESPY**	LQ**HGESPY**T	LQ**HGESPY**T	LQ**HGESPY**T
1AHW-H1	**FNIKDYY**MH	**DYY**MH	G**FNIKDY**	G**FNIKDYY**
1AHW-H2	WIG**L**I**DPEN**G**NTIY**	**L**I**DPEN**G**NTIY**DPKF**Q**G	**DPEN**G**N**	I**DPEN**G**NT**
1AHW-H3	R**DNSY**YFDY	**DNSY**YFDY	**DNSY**YFDY	AR**DNSY**YFDY
1AR1-L1	E**N**I**YSY**LA	RASE**N**I**YSY**LA	RASE**N**I**YSY**LA	E**N**I**YSY**
1AR1-L2	FLV**YN**A**KT**LG**E**	**N**A**KT**LG**E**	**N**A**KT**LG**E**	**N**A**K**
1AR1-L3	QH**HY**GTPPL	QH**HY**GTPPLT	QH**HY**GTPPLT	QH**HY**GTPPLT
1AR1-H1	**FT**FS**SY**TMS	**SY**TMS	**GFT**FS**SY**	**GFT**FS**SY**T
1AR1-H2	WVASIN**N**GGG**R**TYY	SIN**N**GGG**R**TYYPDTVKG	N**N**GGG**R**	IN**N**GGG**R**T
1AR1-H3	**RHEYY**YAMDY	**HEYY**YAMDY	**HEYY**YAMDY	V**RHEYY**YAMDY
1BGX-L1	SSV**SYMY**	SASSSV**SYMY**	SASSSV**SYMY**	SSV**SY**
1BGX-L2	**LLIYDS**T**NLAS**	**DS**T**NLAS**	**DS**T**NLAS**	**DS**T
1BGX-L3	QQ**WSTYPL**	QQ**WSTYPL**T	QQ**WSTYPL**T	QQ**WSTYPL**T
1BGX-H1	**YS**I**TSD**YA**W**N	**SD**YA**W**N	**GYS**I**TSD**Y	**GYS**I**TSD**Y
1BGX-H2	**W**MG**Y**I**TYSGTTDYN**	**Y**I**TYSGTTDYN**PSLKS	**TYSGT**	I**TYSGTT**
1BGX-H3	**R**Y**YYGYWYFDV**	Y**YYGYWYFDV**	Y**YYGYWYFDV**	A**R**Y**YYGYWYFDV**
1BOG-L1	QDINS**FLT**	KASQDINS**FLT**	KASQDINS**FLT**	QDINS**F**
1BOG-L2	TLI**YR**ANRLM**I**	**R**ANRLM**I**	**R**ANRLM**I**	**R**AN
1BOG-L3	LQ**YDDF**P**L**	LQ**YDDF**P**L**T	LQ**YDDF**P**L**T	LQ**YDDF**P**L**T

1BOG-H1	YIF**TDYEIH**	**DYEIH**	GYIF**TDY**	GYIF**TDYE**
1BOG-H2	**W**I**GGIH**PG**SSGTA**Y	**GIH**PG**SSGTA**YNQKFKG	**H**PG**SSG**	**IH**PG**SSGT**
1BOG-H3	**RKDY**	**KDY**	**KDY**	T**RKDY**
1BVK-L1	GNI**HNY**LA	RASGNI**HNY**LA	RASGNI**HNY**LA	GNI**HNY**
1BVK-L2	LLI**YY**TT**T**LAD	**Y**TT**T**LAD	**Y**TT**T**LAD	**Y**TT
1BVK-L3	QH**FWST**P**R**	QH**FWST**P**R**T	QH**FWST**P**R**T	QH**FWST**P**R**T
1BVK-H1	F**S**L**TGYG**VN	**GYG**VN	GF**S**L**TGY**	GF**S**L**TGYG**
1BVK-H2	WIGMI**WGDG**NTDY	MI**WGDG**NTDYNSALKS	**WGDG**N	I**WGDG**NT
1BVK-H3	RE**RDYR**LDY	E**RDYR**LDY	E**RDYR**LDY	ARE**RDYR**LDY
1CE1-L1	QNIDK**Y**LN	KASQNIDK**Y**LN	KASQNIDK**Y**LN	QNIDK**Y**
1CE1-L2	LLI**YN**TNNLQT	**N**TNNLQT	**N**TNNLQT	**N**TN
1CE1-L3	L**QHISR**P**R**	L**QHISR**P**R**T	L**QHISR**P**R**T	L**QHISR**P**R**T
1CE1-H1	FTFT**D**F**Y**MN	**D**F**Y**MN	GFTFT**D**F	GFTFT**D**F**Y**
1CE1-H2	WIG**F**I**R**DKA**K**GYTT**E**Y	**F**I**R**DKA**K**GYTT**E**YNPSVKG	**R**DKA**K**GYT	I**R**DKA**K**GYTT
1CE1-H3	R**EGHTAAP**FDY	**EGHTAAP**FDY	**EGHTAAP**FDY	AR**EGHTAAP**FDY
1CFN-L1	QDINS**FLT**	KASQDINS**FLT**	KASQDINS**FLT**	QDINS**F**
1CFN-L2	TLI**YR**ANRLMI	**R**ANRLMI	**R**ANRLMI	**R**AN
1CFN-L3	LQ**YDDF**PL	LQ**YDDF**PLT	LQ**YDDF**PLT	LQ**YDDF**PLT
1CFN-H1	YIFT**DYE**IH	**DYE**IH	GYIFT**DY**	GYIFT**DYE**
1CFN-H2	WIGGI**H**PGSSGTAY	GI**H**PGSSGTAYNQKFKG	**H**PGSSG	I**H**PGSSGT
1CFN-H3	**RKDY**	**KDY**	**KDY**	T**RKDY**
1CFS-L1	QDIN**SF**L**T**	KASQDIN**SF**L**T**	KASQDIN**SF**L**T**	QDIN**SF**
1CFS-L2	**T**L**IYR**AN**R**L**M**I	**R**AN**R**L**M**I	**R**AN**R**L**M**I	**R**AN
1CFS-L3	LQ**YDDF**P**L**	LQ**YDDF**P**L**T	LQ**YDDF**P**L**T	LQ**YDDF**P**L**T
1CFS-H1	YIFT**DYEIH**	**DYEIH**	GYIFT**DY**	GYIFT**DYE**
1CFS-H2	WIG**GIH**PG**S**S**GTA**Y	**GIH**PG**S**S**GTA**YNQKFKG	**H**PG**S**S**G**	**IH**PG**S**S**GT**
1CFS-H3	**RKD**Y	**KD**Y	**KD**Y	T**RKD**Y
1CFT-L1	QD**IN**S**F**LT	KASQD**IN**S**F**LT	KASQD**IN**S**F**LT	QD**IN**S**F**
1CFT-L2	TLI**YR**ANRLMI	**R**ANRLMI	**R**ANRLMI	**R**AN
1CFT-L3	LQ**YDDF**PL	LQ**YDDF**PLT	LQ**YDDF**PLT	LQ**YDDF**PLT
1CFT-H1	YIFT**DYE**IH	**DYE**IH	GYIFT**DY**	GYIFT**DYE**
1CFT-H2	WIGGI**H**PG**S**SG**TA**Y	GI**H**PG**S**SG**TA**YNQKFKG	**H**PG**S**SG	I**H**PG**S**SG**T**
1CFT-H3	**RKD**Y	**KD**Y	**KD**Y	T**RKD**Y
1CU4-L1	QSLL**DSD**G**K**T**YLI**	KSSQSLL**DSD**G**K**T**YLI**	KSSQSLL**DSD**G**K**T**YLI**	QSLL**DSD**G**K**T**Y**
1CU4-L2	**R**LI**FL**VSKR**D**S	**L**VSKR**D**S	**L**VSKR**D**S	**L**VS
1CU4-L3	**WQGTH**FP**H**	**WQGTH**FP**H**T	**WQGTH**FP**H**T	**WQGTH**FP**H**T
1CU4-H1	FN**IKDYY**I**Q**	**DYY**I**Q**	GFN**IKDY**	GFN**IKDYY**
1CU4-H2	WIG**WIDPE**NG**NSE**Y	**WIDPE**NG**NSE**YAPRFQG	**DPE**NG**N**	**IDPE**NG**NS**
1CU4-H3	A**DLHD**Y	**DLHD**Y	**DLHD**Y	NA**DLHD**Y
1CZ8-L1	QDISNYLN	SASQDISNYLN	SASQDISNYLN	QDISNY
1CZ8-L2	VLIYFTSSLHS	FTSSLHS	FTSSLHS	FTS
1CZ8-L3	QQ**YSTV**P**W**	QQ**YSTV**P**W**T	QQ**YSTV**P**W**T	QQ**YSTV**P**W**T
1CZ8-H1	YD**FTHYGMN**	**HYGMN**	GYD**FTHY**	GYD**FTHYG**
1CZ8-H2	**W**VG**WINTYT**G**EPT**Y	**WINTYT**G**EPT**YAADFKR	**NTYT**G**E**	**INTYT**G**EP**
1CZ8-H3	K**YPYYYGTSHW**YFDV	**YPYYYGTSHW**YFDV	**YPYYYGTSHW**YFDV	AK**YPYYYGTSHW**YFDV
1DQJ-L1	**QSISNN**LH	RAS**QSISNN**LH	RAS**QSISNN**LH	**QSISNN**
1DQJ-L2	LLI**KY**AS**Q**SIS	**Y**AS**Q**SIS	**Y**AS**Q**SIS	**Y**AS
1DQJ-L3	QQ**SNSW**P**Y**	QQ**SNSW**P**Y**T	QQ**SNSW**P**Y**T	QQ**SNSW**P**Y**T
1DQJ-H1	**D**SV**TSDY**WS	**SDY**WS	G**D**SV**TSD**	G**D**SV**TSDY**
1DQJ-H2	YMG**Y**I**SYSGS**T**Y**Y	**Y**I**SYSGS**T**Y**YHPSLKS	**SYSGS**	I**SYSGS**T

1DQJ-H3	SWGGDV	WGGDV	WGGDV	ASWGGDV
1E4W-L1	QDISHYLN	RASQDISHYLN	RASQDISHYLN	QDISHY
1E4W-L2	LLIYYTSTLHS	YTSTLHS	YTSTLHS	YTS
1E4W-L3	QQGGALPF	QQGGALPFT	QQGGALPFT	QQGGALPFT
1E4W-H1	FTFTNYWMH	NYWMH	GFTFTNY	GFTFTNYW
1E4W-H2	WIGEILPSNGRTNY	EILPSNGRTNYNEKFKT	LPSNGR	ILPSNGRT
1E4W-H3	RSPSDY	SPSDY	SPSDY	ARSPSDY
1E4X-L1	QDISHYLN	RASQDISHYLN	RASQDISHYLN	QDISHY
1E4X-L2	LLIYYTSTLHS	YTSTLHS	YTSTLHS	YTS
1E4X-L3	QQGGALPF	QQGGALPFT	QQGGALPFT	QQGGALPFT
1E4X-H1	FTFTNYWMH	NYWMH	GFTFTNY	GFTFTNYW
1E4X-H2	WIGEILPSNGRTNY	EILPSNGRTNYNEKFKT	LPSNGR	ILPSNGRT
1E4X-H3	RSPSDY	SPSDY	SPSDY	ARSPSDY
1E6J-L1	SSVSYMH	SASSSVSYMH	SASSSVSYMH	SSVSY
1E6J-L2	PWIYEISKLAS	EISKLAS	EISKLAS	EIS
1E6J-L3	QQWNYPF	QQWNYPFT	QQWNYPFT	QQWNYPFT
1E6J-H1	YTFTSYTMH	SYTMH	GYTFTSY	GYTFTSYT
1E6J-H2	WIGYINPSSGYSNY	YINPSSGYSNYNQKFKD	NPSSGY	INPSSGYS
1E6J-H3	RPVVRLGYNFDY	PVVRLGYNFDY	PVVRLGYNFDY	SRPVVRLGYNFDY
1EGJ-L1	ESVYSYGDSFMH	RANESVYSYGDSFMH	RANESVYSYGDSFMH	ESVYSYGDSF
1EGJ-L2	LLIYLASNLAS	LASNLAS	LASNLAS	LAS
1EGJ-L3	QQNNEDPW	QQNNEDPWT	QQNNEDPWT	QQNNEDPWT
1EGJ-H1	YTFTDYYMK	DYYMK	GYTFTDY	GYTFTDYY
1EGJ-H2	WIGDINPSNGGTLY	DINPSNGGTLYNQKFKG	NPSNGG	INPSNGGT
1EGJ-H3	RGDGIHGGFAY	GDGIHGGFAY	GDGIHGGFAY	SRGDGIHGGFAY
1EO8-L1	SDISYMH	SASSDISYMH	SASSDISYMH	SDISY
1EO8-L2	IWIYDTSKLAS	DTSKLAS	DTSKLAS	DTS
1EO8-L3	HQRSSYP	HQRSSYPT	HQRSSYPT	HQRSSYPT
1EO8-H1	YSFSTYFIE	TYFIE	GYSFSTY	GYSFSTYF
1EO8-H2	WIGEILPGSDNTNF	EILPGSDNTNFNEKFKD	LPGSDN	ILPGSDNT
1EO8-H3	RPTGRLWFSY	PTGRLWFSY	PTGRLWFSY	ARPTGRLWFSY
1F58-L1	QGVDFDGASFMN	KASQGVDFDGASFMN	KASQGVDFDGASFMN	QGVDFDGASF
1F58-L2	LLIFAASTLES	AASTLES	AASTLES	AAS
1F58-L3	QQSHEDPL	QQSHEDPLT	QQSHEDPLT	QQSHEDPLT
1F58-H1	YSITSGYSWH	SGYSWH	GYSITSGY	GYSITSGY
1F58-H2	WMGYIHYSAGTNY	YIHYSAGTNYNPSLKS	HYSAG	IHYSAGT
1F58-H3	REEAMPYGNQAYYYAMDC	EEAMPYGNQAYYYAMDC	EEAMPYGNQAYYYAMDC	AREEAMPYGNQAYYYAMDC
1F90-L1	QSLLYSNGKTYLN	ESSQSLLYSNGKTYLN	ESSQSLLYSNGKTYLN	QSLLYSNGKTY
1F90-L2	RLIYLVSKLDS	LVSKLDS	LVSKLDS	LVS
1F90-L3	VQGTHFPR	VQGTHFPRT	VQGTHFPRT	VQGTHFPRT
1F90-H1	YSITSDYAWN	SDYAWN	GYSITSDY	GYSITSDY
1F90-H2	WMGYITYSGSTGY	YITYSGSTGYNPSLKS	TYSGS	ITYSGST
1F90-H3	SYDDYTWFTY	YDDYTWFTY	YDDYTWFTY	ASYDDYTWFTY
1FBI-L1	QDISNYLN	RASQDISNYLN	RASQDISNYLN	QDISNY
1FBI-L2	LLIYYTSRLHS	YTSRLHS	YTSRLHS	YTS
1FBI-L3	QQGYTLPY	QQGYTLPYT	QQGYTLPYT	QQGYTLPYT
1FBI-H1	YTFTSYWMH	SYWMH	GYTFTSY	GYTFTSYW
1FBI-H2	WIGEIDPSDSYPNY	EIDPSDSYPNYNEKFKG	DPSDSY	IDPSDSYP
1FBI-H3	SLYYYGTSYGVLDY	LYYYGTSYGVLDY	LYYYGTSYGVLDY	ASLYYYGTSYGVLDY
1FE8-L1	QDIGNYLN	RASQDIGNYLN	RASQDIGNYLN	QDIGNY

1FE8-L2	LLIYYTSRLHS	YTSRLHS	YTSRLHS	YTS
1FE8-L3	QNGGTNPW	QNGGTNPWT	QNGGTNPWT	QNGGTNPWT
1FE8-H1	FSLTTYGVS	TYGVS	GFSLTTY	GFSLTTYG
1FE8-H2	WLGVIWGDGNTTY	VIWGDGNTTYHSALIS	WGDGN	IWGDGNT
1FE8-H3	GNYYGMDY	NYYGMDY	NYYGMDY	AGNYYGMDY
1FJ1-L1	QDINKYIA	KASQDINKYIA	KASQDINKYIA	QDINKY
1FJ1-L2	LLIHYTSTLQP	YTSTLQP	YTSTLQP	YTS
1FJ1-L3	LQYDNLQR	LQYDNLQRT	LQYDNLQRT	LQYDNLQRT
1FJ1-H1	YTFTDYSMY	DYSMY	GYTFTDY	GYTFTDYS
1FJ1-H2	RMGWINTETGEPTY	WINTETGEPTYADDFKG	NTETGE	INTETGEP
1FJ1-H3	RGLDS	GLDS	GLDS	ARGLDS
1FNS-L1	QDINKYLN	SASQDINKYLN	SASQDINKYLN	QDINKY
1FNS-L2	LLIFYTSSLHS	YTSSLHS	YTSSLHS	YTS
1FNS-L3	QQYEKLPW	QQYEKLPWT	QQYEKLPWT	QQYEKLPWT
1FNS-H1	FSLTDYGVD	DYGVD	GFSLTDY	GFSLTDYG
1FNS-H2	WLGMIWGDGSTDY	MIWGDGSTDYNSALKS	WGDGS	IWGDGST
1FNS-H3	RDPADYGNYDYALDY	DPADYGNYDYALDY	DPADYGNYDYALDY	VRDPADYGNYDYALDY
1FPT-L1	QSLVHSNGKTYLH	SSSQSLVHSNGKTYLH	SSSQSLVHSNGKTYLH	QSLVHSNGKTY
1FPT-L2	LLIYKVSNRFS	KVSNRFS	KVSNRFS	KVS
1FPT-L3	SQSTHVPY	SQSTHVPYT	SQSTHVPYT	SQSTHVPYT
1FPT-H1	YAFTNYLIQ	NYLIQ	GYAFTNY	GYAFTNYL
1FPT-H2	WIGVINPGSGGTDY	VINPGSGGTDYNANFKG	NPGSGG	INPGSGGT
1FPT-H3	RDFYDYDVGFDY	DFYDYDVGFDY	DFYDYDVGFDY	ARDFYDYDVGFDY
1FRG-L1	QSLFNSGKRKNFLT	KSSQSLFNSGKRKNFLT	KSSQSLFNSGKRKNFLT	QSLFNSGKRKNF
1FRG-L2	LLIYWASTRES	WASTRES	WASTRES	WAS
1FRG-L3	QNDYSHPL	QNDYSHPLT	QNDYSHPLT	QNDYSHPLT
1FRG-H1	FTFSSFGMS	SFGMS	GFTFSSF	GFTFSSFG
1FRG-H2	WVATISNGGGYTYY	TISNGGGYTYYQDSVKG	SNGGGY	ISNGGGYT
1FRG-H3	RRERYDEKGFAY	RERYDEKGFAY	RERYDEKGFAY	ARRERYDEKGFAY
1FSK-L1	ENVDTYVF	KASENVDTYVF	KASENVDTYVF	ENVDTY
1FSK-L2	LLLYGPSNRYT	GPSNRYT	GPSNRYT	GPS
1FSK-L3	GQSYSYPY	GQSYSYPYT	GQSYSYPYT	GQSYSYPYT
1FSK-H1	YTFTSYWIN	SYWIN	GYTFTSY	GYTFTSYW
1FSK-H2	WVGNIFPSDSYTNY	NIFPSDSYTNYNQKFKD	FPSDSY	IFPSDSYT
1FSK-H3	RGARDTWFAY	GARDTWFAY	GARDTWFAY	TRGARDTWFAY
1G9N-L1	ESVSSDLA	RASESVSSDLA	RASESVSSDLA	ESVSSD
1G9N-L2	LLIYGASTRAT	GASTRAT	GASTRAT	GAS
1G9N-L3	QQYNNWPPRY	QQYNNWPPRYT	QQYNNWPPRYT	QQYNNWPPRYT
1G9N-H1	DTFIRYSFT	RYSFT	GDTFIRY	GDTFIRYS
1G9N-H2	WMGRIITILDVAHY	RIITILDVAHYAPHLQG	ITILDV	IITILDVA
1G9N-H3	GVYEGEADEGEYRNNGFLKH	VYEGEADEGEYRNNGFLKH	VYEGEADEGEYRNNGFLKH	AGVYEGEADEGEYRNNGFLKH
1GGI-L1	ESVDDDGNSFLH	RASESVDDDGNSFLH	RASESVDDDGNSFLH	ESVDDDGNSF
1GGI-L2	LLIYRSSNLIS	RSSNLIS	RSSNLIS	RSS
1GGI-L3	QQSNEDPL	QQSNEDPLT	QQSNEDPLT	QQSNEDPLT
1GGI-H1	FSLSTYGMGVS	TYGMGVS	GFSLSTYGM	GFSLSTYG
1GGI-H2	WLAHIFWDGDKRY	HIFWDGDKRYNPSLKS	FWDGD	IFWDGDK
1GGI-H3	QEGYIY	EGYIY	EGYIY	VQEGYIY
1H0D-L1	ESVDNYGISFMS	RASESVDNYGISFMS	RASESVDNYGISFMS	ESVDNYGISF
1H0D-L2	LLIYAASNQGS	AASNQGS	AASNQGS	AAS
1H0D-L3	QQSKEVPL	QQSKEVPLT	QQSKEVPLT	QQSKEVPLT

1H0D-H1	FTFSSYTMS	SYTMS	GFTFSSY	GFTFSSYT
1H0D-H2	WVATISSGGGNTYY	TISSGGGNTYYPDSVKG	SSGGGN	ISSGGGNT
1H0D-H3	RLGDYGYAYTMDY	LGDYGYAYTMDY	LGDYGYAYTMDY	TRLGDYGYAYTMDY
1HH9-L1	QDINSFLT	KASQDINSFLT	KASQDINSFLT	QDINSF
1HH9-L2	TLIYRANRLMI	RANRLMI	RANRLMI	RAN
1HH9-L3	LQYDDFPL	LQYDDFPLT	LQYDDFPLT	LQYDDFPLT
1HH9-H1	YIFTDYEIH	DYEIH	GYIFTDY	GYIFTDYE
1HH9-H2	WIGGIHPGSSGTAY	GIHPGSSGTAYNQKFKG	HPGSSG	IHPGSSGT
1HH9-H3	RKDY	KDY	KDY	TRKDY
1HI6-L1	QDINSFLT	KASQDINSFLT	KASQDINSFLT	QDINSF
1HI6-L2	TLIYRANRLMI	RANRLMI	RANRLMI	RAN
1HI6-L3	LQYDDFPL	LQYDDFPLT	LQYDDFPLT	LQYDDFPLT
1HI6-H1	YIFTDYEIH	DYEIH	GYIFTDY	GYIFTDYE
1HI6-H2	WIGGIHPGSSGTAY	GIHPGSSGTAYNQKFKG	HPGSSG	IHPGSSGT
1HI6-H3	RKDY	KDY	KDY	TRKDY
1HIM-L1	QSLFNSGKQKNYLT	TSSQSLFNSGKQKNYLT	TSSQSLFNSGKQKNYLT	QSLFNSGKQKNY
1HIM-L2	VLIYWASTRES	WASTRES	WASTRES	WAS
1HIM-L3	QNDYSNPL	QNDYSNPLT	QNDYSNPLT	QNDYSNPLT
1HIM-H1	FSFSSYGMS	SYGMS	GFSFSSY	GFSFSSYG
1HIM-H2	WVATISNGGGYTYY	TISNGGGYTYYPDSVKG	SNGGGY	ISNGGGYT
1HIM-H3	RRERYDENGFAY	RERYDENGFAY	RERYDENGFAY	ARRERYDENGFAY
1HYS-L1	QDISSYLN	SASQDISSYLN	SASQDISSYLN	QDISSY
1HYS-L2	LLIYYTSSLHS	YTSSLHS	YTSSLHS	YTS
1HYS-L3	QQYSKFPW	QQYSKFPWT	QQYSKFPWT	QQYSKFPWT
1HYS-H1	FSLSTSGIGVT	TSGIGVT	GFSLSTSGI	GFSLSTSG
1HYS-H2	WLATIWWDDDNRY	TIWWDDDNRYNPSLKS	WWDDD	IWWDDDN
1HYS-H3	QSAITSVTDSAMDH	SAITSVTDSAMDH	SAITSVTDSAMDH	AQSAITSVTDSAMDH
1I8K-L1	TDIDDDMN	MTSTDIDDDMN	MTSTDIDDDMN	TDIDDD
1I8K-L2	FLISEGNTLRP	EGNTLRP	EGNTLRP	EGN
1I8K-L3	LQSFNVPL	LQSFNVPLT	LQSFNVPLT	LQSFNVPLT
1I8K-H1	FTFRKFGMS	KFGMS	GFTFRKF	GFTFRKFG
1I8K-H2	WVASISTGGYNTYY	SISTGGYNTYYSDNVKG	STGGYN	ISTGGYNT
1I8K-H3	RGYSSTSYAMDY	GYSSTSYAMDY	GYSSTSYAMDY	TRGYSSTSYAMDY
1I9R-L1	QRVSSSTYSYMH	RASQRVSSSTYSYMH	RASQRVSSSTYSYMH	QRVSSSTYSY
1I9R-L2	LLIKYASNLES	YASNLES	YASNLES	YAS
1I9R-L3	QHSWEIPP	QHSWEIPPT	QHSWEIPPT	QHSWEIPPT
1I9R-H1	YIFTSYYMY	SYYMY	GYIFTSY	GYIFTSYY
1I9R-H2	WIGEINPSNGDTNF	EINPSNGDTNFNEKFKS	NPSNGD	INPSNGDT
1I9R-H3	RSDGRNDMDS	SDGRNDMDS	SDGRNDMDS	TRSDGRNDMDS
1IGC-L1	ENVVTYVS	KASENVVTYVS	KASENVVTYVS	ENVVTY
1IGC-L2	LLIYGASNRYT	GASNRYT	GASNRYT	GAS
1IGC-L3	GQGNSYPY	GQGNSYPYT	GQGNSYPYT	GQGNSYPYT
1IGC-H1	FTFSSFGMH	SFGMH	GFTFSSF	GFTFSSFG
1IGC-H2	WVAYISSGSSTLHY	YISSGSSTLHYADTVKG	SSGSST	ISSGSSTL
1IGC-H3	RWGNYPYYAMDY	WGNYPYYAMDY	WGNYPYYAMDY	ARWGNYPYYAMDY
1IQD-L1	QSFSSSYLA	RASQSFSSSYLA	RASQSFSSSYLA	QSFSSSY
1IQD-L2	LLIYGASTRAT	GASTRAT	GASTRAT	GAS
1IQD-L3	QKYGTSAI	QKYGTSAIT	QKYGTSAIT	QKYGTSAIT
1IQD-H1	YTLTELPVH	ELPVH	GYTLTEL	GYTLTELP
1IQD-H2	WVGSFDPESGESIY	SFDPESGESIYAREFQG	DPESGE	FDPESGES

1IQD-H3	VPDPDAFDI	PDPDAFDI	PDPDAFDI	AVPDPDAFDI
1J1P-L1	QSIGNNLH	RASQSIGNNLH	RASQSIGNNLH	QSIGNN
1J1P-L2	LLIKYASQSIS	YASQSIS	YASQSIS	YAS
1J1P-L3	QQANSWPY	QQANSWPYT	QQANSWPYT	QQANSWPYT
1J1P-H1	DSITSDYWS	SDYWS	GDSITSD	GDSITSDY
1J1P-H2	YMGYVSYSGSTYY	YVSYSGSTYYNPSLKS	SYSGS	VSYSGST
1J1P-H3	NWDGDY	WDGDY	WDGDY	ANWDGDY
1JHL-L1	KSISKSLA	RASKSISKSLA	RASKSISKSLA	KSISKS
1JHL-L2	LLIYSGSTLQS	SGSTLQS	SGSTLQS	SGS
1JHL-L3	QQHNEYPW	QQHNEYPWT	QQHNEYPWT	QQHNEYPWT
1JHL-H1	YTFISYWIN	SYWIN	GYTFISY	GYTFISYW
1JHL-H2	WIGNIYPSDSYTNY	NIYPSDSYTNYNQKFKD	YPSDSY	IYPSDSYT
1JHL-H3	RDDNYGAMDY	DDNYGAMDY	DDNYGAMDY	TRDDNYGAMDY
1JPS-L1	RDIKSYLN	RASRDIKSYLN	RASRDIKSYLN	RDIKSY
1JPS-L2	VLIYYATSLAE	YATSLAE	YATSLAE	YAT
1JPS-L3	LQHGESPW	LQHGESPWT	LQHGESPWT	LQHGESPWT
1JPS-H1	FNIKEYYMH	EYYMH	GFNIKEY	GFNIKEYY
1JPS-H2	WVGLIDPEQGNTIY	LIDPEQGNTIYDPKFQD	DPEQGN	IDPEQGNT
1JPS-H3	RDTAAYFDY	DTAAYFDY	DTAAYFDY	ARDTAAYFDY
1JRH-L1	EDIYNRLA	KASEDIYNRLA	KASEDIYNRLA	EDIYNR
1JRH-L2	LLISGATSLET	GATSLET	GATSLET	GAT
1JRH-L3	QQYWSTW	QQYWSTWT	QQYWSTWT	QQYWSTWT
1JRH-H1	FSLTTYGMGVG	TYGMGVG	GFSLTTYGM	GFSLTTYG
1JRH-H2	WLAHIWWDDDKYY	HIWWDDDKYYNPSLKS	WWDDD	IWWDDDK
1JRH-H3	RRAPFYGNHAMDY	RAPFYGNHAMDY	RAPFYGNHAMDY	ARRAPFYGNHAMDY
1KB5-L1	KNIYSYLA	RASKNIYSYLA	RASKNIYSYLA	KNIYSY
1KB5-L2	LLVYNAKTLGE	NAKTLGE	NAKTLGE	NAK
1KB5-L3	QHHYGTPY	QHHYGTPYT	QHHYGTPYT	QHHYGTPYT
1KB5-H1	YSFTGYNMN	GYNMN	GYSFTGY	GYSFTGYN
1KB5-H2	WIGNIDPYYGGISY	NIDPYYGGISYNQKFKG	DPYYGG	IDPYYGGI
1KB5-H3	RSRTDLYYFDY	SRTDLYYFDY	SRTDLYYFDY	ARSRTDLYYFDY
1KB9-L1	QDINNFLN	RASQDINNFLN	RASQDINNFLN	QDINNF
1KB9-L2	LLIYYTSRLHA	YTSRLHA	YTSRLHA	YTS
1KB9-L3	QHHIKFPW	QHHIKFPWT	QHHIKFPWT	QHHIKFPWT
1KB9-H1	YSITSGYYWN	SGYYWN	GYSITSGY	GYSITSGY
1KB9-H2	WVGYISNVGDNNY	YISNVGDNNYNPSLKD	SNVGD	ISNVGDN
1KB9-H3	RSEYYSVTGYAMDY	SEYYSVTGYAMDY	SEYYSVTGYAMDY	ARSEYYSVTGYAMDY
1KC5-L1	ENVDTYVS	KASENVDTYVS	KASENVDTYVS	ENVDTY
1KC5-L2	LLIYGASNRYT	GASNRYT	GASNRYT	GAS
1KC5-L3	GQSYSYPL	GQSYSYPLT	GQSYSYPLT	GQSYSYPLT
1KC5-H1	YSITSDYAWN	SDYAWN	GYSITSDY	GYSITSDY
1KC5-H2	WMAYISYSGSTTY	YISYSGSTTYNPSLKS	SYSGS	ISYSGST
1KC5-H3	RGGTGFDY	GGTGFDY	GGTGFDY	ARGGTGFDY
1KCR-L1	ENVGTYVS	KASENVGTYVS	KASENVGTYVS	ENVGTY
1KCR-L2	LLIYGASNRYT	GASNRYT	GASNRYT	GAS
1KCR-L3	GQTYSYP	GQTYSYPT	GQTYSYPT	GQTYSYPT
1KCR-H1	YSITSDYAWN	SDYAWN	GYSITSDY	GYSITSDY
1KCR-H2	WMGYIRNGGSTTY	YIRNGGSTTYNPSLAS	RNGGS	IRNGGST
1KCR-H3	RGGTGFTY	GGTGFTY	GGTGFTY	ARGGTGFTY
1KCS-L1	ENVGTYVS	KASENVGTYVS	KASENVGTYVS	ENVGTY

1KCS-L2	LLIYGASNRYT	GASNRYT	GASNRYT	GAS
1KCS-L3	G**QSYSSPL**	G**QSYSSPL**T	G**QSYSSPL**T	G**QSYSSPL**T
1KCS-H1	YSITS**DYA**W**N**	S**DYA**W**N**	SYSITS**DY**	SYSITS**DY**
1KCS-H2	**W**MG**Y**I**SY**SGST**S**Y	**Y**I**SY**SGST**S**YNPSLKS	**SY**SGS	I**SY**SGST
1KCS-H3	**RGGTGF**PY	**GGTGF**PY	**GGTGF**PY	A**RGGTGF**PY
1KEN-L1	STIT**SS**FLY	SASSTIT**SS**FLY	SASSTIT**SS**FLY	STIT**SS**F
1KEN-L2	LWI**Y**STS**NLAS**	STS**NLAS**	STS**NLAS**	STS
1KEN-L3	HQWETFPR	HQWETFPRT	HQWETFPRT	HQWETFPRT
1KEN-H1	**Y**SITSG**Y**YWT	SG**Y**YWT	G**Y**SITSG**Y**	G**Y**SITSG**Y**
1KEN-H2	WMGYISYDGSNNYN	YISYDGSNNYNPSLKN	SYDGS	ISYDGSN
1KEN-H3	AF**YYDYDFFF**D**Y**	F**YYDYDFFF**D**Y**	F**YYDYDFFF**D**Y**	AAF**YYDYDFFF**D**Y**
1KTR-L1	QSIV**HSN**G**N**T**Y**L**E**	RSSQSIV**HSN**G**N**T**Y**L**E**	RSSQSIV**HSN**G**N**T**Y**L**E**	QSIV**HSN**G**N**T**Y**
1KTR-L2	LLIYKVSNRFS	KVSNRFS	KVSNRFS	KVS
1KTR-L3	**FQGSHV**P**F**	**FQGSHV**P**F**T	**FQGSHV**P**F**T	**FQGSHV**P**F**T
1KTR-H1	YTFTDY**Y**M**N**	DY**Y**M**N**	GYTFTDY	GYTFTDY**Y**
1KTR-H2	**W**IG**D**INPNNGGT**S**Y	**D**INPNNGGT**S**YNQKFKG	NPNNGG	INPNNGGT
1KTR-H3	S**QSGA**Y	**QSGA**Y	**QSGA**Y	**E**S**QSGA**Y
1LK3-L1	ESVTS**R**M**H**	KASESVTS**R**M**H**	KASESVTS**R**M**H**	ESVTS**R**
1LK3-L2	LLIY**K**ASNLAS	**K**ASNLAS	**K**ASNLAS	**K**AS
1LK3-L3	QQ**SWNGPL**	QQ**SWNGPL**T	QQ**SWNGPL**T	QQ**SWNGPL**T
1LK3-H1	YTFTDF**Y**I**H**	DF**Y**I**H**	GYTFTDF	GYTFTDF**Y**
1LK3-H2	**W**IG**Y**I**N**P**NSGYTNY**	**Y**I**N**P**NSGYTNY**NEKFKN	**N**P**NSGY**	I**N**P**NSGYT**
1LK3-H3	RG**VPGNNW**FPY	G**VPGNNW**FPY	G**VPGNNW**FPY	TRG**VPGNNW**FPY
1MHP-L1	S**SVNH**MF	SASS**SVNH**MF	SASS**SVNH**MF	S**SVNH**
1MHP-L2	PWIY**L**TSNLAS	**L**TSNLAS	**L**TSNLAS	**L**TS
1MHP-L3	QQ**WSGNPW**	QQ**WSGNPW**T	QQ**WSGNPW**T	QQ**WSGNPW**T
1MHP-H1	FTF**SRYT**MS	**RYT**MS	GFTF**SRY**	GFTF**SRYT**
1MHP-H2	**W**VA**TISGG**G**H**T**YY**	**TISGG**G**H**T**YY**LDSVKG	**SGG**G**H**	**ISGG**G**H**T
1MHP-H3	RGF**GDGG**YFDV	GF**GDGG**YFDV	GF**GDGG**YFDV	TRGF**GDGG**YFDV
1MLC-L1	Q**S**ISN**N**LH	RASQ**S**ISN**N**LH	RASQ**S**ISN**N**LH	Q**S**ISN**N**
1MLC-L2	LLIK**Y**VSQSSS	**Y**VSQSSS	**Y**VSQSSS	**Y**VS
1MLC-L3	QQ**SNSW**P**R**	QQ**SNSW**P**R**T	QQ**SNSW**P**R**T	QQ**SNSW**P**R**T
1MLC-H1	YTF**STYW**I**E**	**TYW**I**E**	GYTF**STY**	GYTF**STYW**
1MLC-H2	**W**IG**E**I**L**PG**SGSTY**Y	**E**I**L**PG**SGSTY**YNEKFKG	**L**PG**SGS**	I**L**PG**SGST**
1MLC-H3	R**GDG**NYGY	**GDG**NYGY	**GDG**NYGY	AR**GDG**NYGY
1MPA-L1	QALV**HSN**G**N**T**Y**LH	RSSQALV**HSN**G**N**T**Y**LH	RSSQALV**HSN**G**N**T**Y**LH	QALV**HSN**G**N**T**Y**
1MPA-L2	LLIYKVSNRFS	KVSNRFS	KVSNRFS	KVS
1MPA-L3	S**QSTHVPR**	S**QSTHVPR**T	S**QSTHVPR**T	S**QSTHVPR**T
1MPA-H1	YSF**TSYWLH**	**SYWLH**	GYSF**TSY**	GYSF**TSYW**
1MPA-H2	**W**IG**GIY**PGNRDT**R**Y	**GIY**PGNRDT**R**YTQRFKD	**Y**PGNRD	I**Y**PGNRDT
1MPA-H3	**IIYFD**YADFIMDY	**IYFD**YADFIMDY	**IYFD**YADFIMDY	S**IIYFD**YADFIMDY
1N0X-L1	**HSIRSRR**VA	RSS**HSIRSRR**VA	RSS**HSIRSRR**VA	**HSIRSRR**
1N0X-L2	LVIHGVSNRAS	GVSNRAS	GVSNRAS	GVS
1N0X-L3	Q**VYGASS**Y	Q**VYGASS**YT	Q**VYGASS**YT	Q**VYGASS**YT
1N0X-H1	YRFSNFVIH	NFVIH	GYRFSNF	GYRFSNFV
1N0X-H2	WMG**W**INPYNG**NKE**F	**W**INPYNG**NKE**FSAKFQD	NPYNG**N**	INPYNG**NK**
1N0X-H3	RVGPYSWDD**SPQ**DNYYMDV	VGPYSWDD**SPQ**DNYYMDV	VGPYSWDD**SPQ**DNYYMDV	ARVGPYSWDD**SPQ**DNYYMDV
1N64-L1	QSLL**N**S**RT**RKN**Y**LA	KSSQSLL**N**S**RT**RKN**Y**LA	KSSQSLL**N**S**RT**RKN**Y**LA	QSLL**N**S**RT**RKN**Y**
1N64-L2	VLIYWASTRES	WASTRES	WASTRES	WAS
1N64-L3	KQ**AYIP**P**L**	KQ**AYIP**P**L**T	KQ**AYIP**P**L**T	KQ**AYIP**P**L**T

1N64-H1	YT**FTDFSMH**	**DFSMH**	GYT**FTDF**	GYT**FTDFS**
1N64-H2	**W**MG**WVNTET**GEPTY	**WVNTET**GEPTYADDFKG	**NTET**GE	**VNTET**GEP
1N64-H3	R**FLLRQ**YFDV	**FLLRQ**YFDV	**FLLRQ**YFDV	AR**FLLRQ**YFDV
1N6Q-L1	QDISS**Y**LN	SASQDISS**Y**LN	SASQDISS**Y**LN	QDISS**Y**
1N6Q-L2	LLIY**Y**TSSLHS	**Y**TSSLHS	**Y**TSSLHS	**Y**TS
1N6Q-L3	QQ**YSKFPW**	QQ**YSKFPW**T	QQ**YSKFPW**T	QQ**YSKFPW**T
1N6Q-H1	FSL**STSG**IGVT	**TSG**IGVT	GFSL**STSG**I	GFSL**STSG**
1N6Q-H2	WLATI**WWD**D**D**N**R**Y	TI**WWD**D**D**N**R**YNPSLKS	**WWD**D**D**	I**WWD**D**D**N
1N6Q-H3	QSA**ITSVTDS**AMDH	SA**ITSVTDS**AMDH	SA**ITSVTDS**AMDH	AQSA**ITSVTDS**AMDH
1N8Z-L1	Q**DVNTA**VA	RASQ**DVNTA**VA	RASQ**DVNTA**VA	Q**DVNTA**
1N8Z-L2	LLI**YS**AS**F**LYS	**S**AS**F**LYS	**S**AS**F**LYS	**S**AS
1N8Z-L3	QQ**HYTT**PP	QQ**HYTT**PPT	QQ**HYTT**PPT	QQ**HYTT**PPT
1N8Z-H1	FNIKDT**Y**IH	DT**Y**IH	GFNIKDT	GFNIKDT**Y**
1N8Z-H2	WVA**R**I**Y**PT**N**G**YTR**Y	**R**I**Y**PT**N**G**YTR**YADSVKG	**Y**PT**N**G**Y**	I**Y**PT**N**G**YT**
1N8Z-H3	R**W**G**GDGFY**AMDY	**W**G**GDGFY**AMDY	**W**G**GDGFY**AMDY	SR**W**G**GDGFY**AMDY
1NAK-L1	QSLGHSSGNT**Y**L**H**	RSSQSLGHSSGNT**Y**L**H**	RSSQSLGHSSGNT**Y**L**H**	QSLGHSSGNT**Y**
1NAK-L2	**L**LI**YK**VSNR**F**S	**K**VSNR**F**S	**K**VSNR**F**S	**K**VS
1NAK-L3	**F**Q**TT**HDP**Y**	**F**Q**TT**HDP**Y**T	**F**Q**TT**HDP**Y**T	**F**Q**TT**HDP**Y**T
1NAK-H1	VSIT**SGYWN**	**SGYWN**	GVSIT**SG**	GVSIT**SGY**
1NAK-H2	**Y**M**GYI**SKSGSAYY	**YI**SKSGSAYYNPSLKS	SKSGS	**I**SKSGSA
1NAK-H3	**IDDFD**I	**DDFD**I	**DDFD**I	A**IDDFD**I
1NCD-L1	QDV**ST**AVV	KASQDV**ST**AVV	KASQDV**ST**AVV	QDV**ST**A
1NCD-L2	LLI**YW**A**STRHI**	**W**A**STRHI**	**W**A**STRHI**	**W**A**S**
1NCD-L3	QQ**HYSP**P**W**	QQ**HYSP**P**W**T	QQ**HYSP**P**W**T	QQ**HYSP**P**W**T
1NCD-H1	YTF**TNYG**MN	**NYG**MN	GYTF**TNY**	GYTF**TNYG**
1NCD-H2	WMG**WINTNT**G**E**PTY	**WINTNT**G**E**PTYG**E**EF**K**G	**NTNT**G**E**	**INTNT**G**E**P
1NCD-H3	R**GEDNF**G**SL**S**D**Y	**GEDNF**G**SL**S**D**Y	**GEDNF**G**SL**S**D**Y	AR**GEDNF**G**SL**S**D**Y
1NDG-L1	Q**SISNN**LH	RASQ**SISNN**LH	RASQ**SISNN**LH	Q**SISNN**
1NDG-L2	LLI**KY**AS**Q**SIS	**Y**AS**Q**SIS	**Y**AS**Q**SIS	**Y**AS
1NDG-L3	QQ**SNSW**P**Y**	QQ**SNSW**P**Y**T	QQ**SNSW**P**Y**T	QQ**SNSW**P**Y**T
1NDG-H1	**D**S**IIRDY**WS	**RDY**WS	G**D**S**IIRD**	G**D**S**IIRDY**
1NDG-H2	YMG**Y**I**SFSGN**T**F**Y	**Y**I**SFSGN**T**F**YHPSLKS	**SFSGN**	I**SFSGN**T
1NDG-H3	**NWD**G**TY**	**WD**G**TY**	**WD**G**TY**	A**NWD**G**TY**
1NDM-L1	Q**SISNN**LH	RASQ**SISNN**LH	RASQ**SISNN**LH	Q**SISNN**
1NDM-L2	LLI**KY**AS**Q**SIS	**Y**AS**Q**SIS	**Y**AS**Q**SIS	**Y**AS
1NDM-L3	QQ**SNSW**P**Y**	QQ**SNSW**P**Y**T	QQ**SNSW**P**Y**T	QQ**SNSW**P**Y**T
1NDM-H1	**DS**I**TSDY**WS	**SDY**WS	G**DS**I**TSD**	G**DS**I**TSDY**
1NDM-H2	YMG**Y**I**SYSGS**T**Y**Y	**Y**I**SYSGS**T**Y**YHPSLKS	**SYSGS**	I**SYSGS**T
1NDM-H3	**RWE**M**D**Y	**WE**M**D**Y	**WE**M**D**Y	A**RWE**M**D**Y
1NFD-L1	Q**LPKNFAY**	SGDQ**LPKNFAY**	SGDQ**LPKNFAY**	Q**LPKNF**
1NFD-L2	LLI**YMD**N**K**RPS	**MD**N**K**RPS	**MD**N**K**RPS	**MD**N
1NFD-L3	L**SS**YGDN**NDL**	L**SS**YGDN**NDL**V	L**SS**YGDN**NDL**V	L**SS**YGDN**NDL**V
1NFD-H1	FTFSDF**W**M**Y**	DF**W**M**Y**	GFTFSDF	GFTFSDF**W**
1NFD-H2	WVG**R**I**K**NIP**N**NYATEY	**R**I**K**NIP**N**NYATEYADSVRG	**K**NIP**N**NYA	I**K**NIP**N**NYAT
1NFD-H3	R**AGRFDHF**DY	**AGRFDHF**DY	**AGRFDHF**DY	TR**AGRFDHF**DY
1NL0-L1	TSNIG**NN**YVS	SGSTSNIG**NN**YVS	SGSTSNIG**NN**YVS	TSNIG**NN**Y
1NL0-L2	LMIYDVSKRPS	DVSKRPS	DVSKRPS	DVS
1NL0-L3	AA**W**D**D**SLSE**F**	AA**W**D**D**SLSE**F**L	AA**W**D**D**SLSE**F**L	AA**W**D**D**SLSE**F**L
1NL0-H1	FTF**STYA**M**H**	**TYA**M**H**	GFTF**STY**	GFTF**STYA**
1NL0-H2	**W**VA**IISYD**GS**KKY**Y	**IISYD**GS**KKY**YADSVKG	**SYD**GS**K**	**ISYD**GS**KK**

1NL0-H3	R**ASIAAAR**VLDY	**ASIAAAR**VLDY	**ASIAAAR**VLDY	AR**ASIAAAR**VLDY
1NMA-L1	**QD**I**SNY**LN	RAS**QD**I**SNY**LN	RAS**QD**I**SNY**LN	**QD**I**SNY**
1NMA-L2	LLIY**Y**TSNLHS	**Y**TSNLHS	**Y**TSNLHS	**Y**TS
1NMA-L3	QQ**DFTL**PF	QQ**DFTL**PFT	QQ**DFTL**PFT	QQ**DFTL**PFT
1NMA-H1	YTFTNYNMY	NYNMY	GYTFTNY	GYTFTNYN
1NMA-H2	WIGIF**Y**P**GNGDTS**Y	IF**Y**P**GNGDTS**YNQKFKD	**Y**P**GNGD**	F**Y**P**GNGDT**
1NMA-H3	RSGG**SYRYD**GGFDY	SGG**SYRYD**GGFDY	SGG**SYRYD**GGFDY	ARSGG**SYRYD**GGFDY
1NSN-L1	QSV**STSSF**R**Y**MH	RASQSV**STSSF**R**Y**MH	RASQSV**STSSF**R**Y**MH	QSV**STSSF**R**Y**
1NSN-L2	LLI**KY**AS**N**L**E**S	**Y**AS**N**L**E**S	**Y**AS**N**L**E**S	**Y**AS
1NSN-L3	QHS**WEIPY**	QHS**WEIPY**T	QHS**WEIPY**T	QHS**WEIPY**T
1NSN-H1	**Y**SI**TSD**Y**A**W**N**	**SD**Y**A**W**N**	G**Y**SI**TSD**Y	G**Y**SI**TSD**Y
1NSN-H2	WMG**Y**I**TYSGTTS**Y	**Y**I**TYSGTTS**YNPSLKS	**TYSGT**	I**TYSGTT**
1NSN-H3	R**GN**GD	**GN**GD	**GN**GD	TR**GN**GD
1OAZ-L1	TGAVT**TSNY**AN	RSSTGAVT**TSNY**AN	RSSTGAVT**TSNY**AN	TGAVT**TSNY**
1OAZ-L2	GLIGGT**NNRAP**	GT**NNRAP**	GT**NNRAP**	GT**N**
1OAZ-L3	ALWY**SN**HL	ALWY**SN**HLV	ALWY**SN**HLV	ALWY**SN**HLV
1OAZ-H1	**YT**F**TSYW**MH	**SYW**MH	**GYT**F**TSY**	**GYT**F**TSYW**
1OAZ-H2	WIGRI**D**P**N**GGGTKY	RI**D**P**N**GGGTKYNEKFKS	**D**P**N**GGG	I**D**P**N**GGGT
1OAZ-H3	**R**M**WYYGTYY**FDY	M**WYYGTYY**FDY	M**WYYGTYY**FDY	A**R**M**WYYGTYY**FDY
1OB1-L1	SS**LSSSY**LH	TATSS**LSSSY**LH	TATSS**LSSSY**LH	SS**LSSSY**
1OB1-L2	LWIYTTSNLAS	TTSNLAS	TTSNLAS	TTS
1OB1-L3	HQ**FHHS**P**Y**	HQ**FHHS**P**Y**T	HQ**FHHS**P**Y**T	HQ**FHHS**P**Y**T
1OB1-H1	YT**FTTAGI**Q	**TAGI**Q	GYT**FTTA**	GYT**FTTAG**
1OB1-H2	WIG**WINTHS**GVP**Q**Y	**WINTHS**GVP**Q**YADDFKG	**NTHS**GV	**INTHS**GVP
1OB1-H3	R**NYYRFDG**GMDF	**NYYRFDG**GMDF	**NYYRFDG**GMDF	AR**NYYRFDG**GMDF
1ORQ-L1	SSVSSS**Y**LH	RARSSVSSS**Y**LH	RARSSVSSS**Y**LH	SSVSSS**Y**
1ORQ-L2	LWIYSTSNLAS	STSNLAS	STSNLAS	STS
1ORQ-L3	QQ**Y**SGNPW	QQ**Y**SGNPWT	QQ**Y**SGNPWT	QQ**Y**SGNPWT
1ORQ-H1	YSI**TSLYA**WN	**SLYA**WN	GYSI**TSLY**	GYSI**TSLY**
1ORQ-H2	WMG**YINYS**G**Y**TSY	**YINYS**G**Y**TSYNPSLKS	**NYS**G**Y**	**INYS**G**Y**T
1ORQ-H3	R**GVDYF**AMDY	**GVDYF**AMDY	**GVDYF**AMDY	TR**GVDYF**AMDY
1ORS-L1	SSVSSS**Y**LH	TASSSVSSS**Y**LH	TASSSVSSS**Y**LH	SSVSSS**Y**
1ORS-L2	LWIYSTSNLAS	STSNLAS	STSNLAS	STS
1ORS-L3	HQ**FH**RSL	HQ**FH**RSLT	HQ**FH**RSLT	HQ**FH**RSLT
1ORS-H1	YSI**TNNYA**WN	**NNYA**WN	GYSI**TNNY**	GYSI**TNNY**
1ORS-H2	WMG**YINYS**G**T**TSY	**YINYS**G**T**TSYNPSLKS	**NYS**G**T**	I**NYS**G**T**T
1ORS-H3	R**GYDYF**AMDY	**GYDYF**AMDY	**GYDYF**AMDY	VR**GYDYF**AMDY
1OSP-L1	E**D**I**YSRL**A	KASE**D**I**YSRL**A	KASE**D**I**YSRL**A	E**D**I**YSR**
1OSP-L2	LLI**SGATSLE**T	**GATSLE**T	**GATSLE**T	**GAT**
1OSP-L3	QQ**YW**SPPP	QQ**YW**SPPPT	QQ**YW**SPPPT	QQ**YW**SPPPT
1OSP-H1	**E**PIT**SG**FWD	**SG**FWD	G**E**PIT**SG**	G**E**PIT**SG**F
1OSP-H2	FMGYIR**Y**GGGTYY	YIR**Y**GGGTYYNPSLKS	R**Y**GGG	IR**Y**GGGT
1OSP-H3	**R**S**RDYYGSS**GFAF	S**RDYYGSS**GFAF	S**RDYYGSS**GFAF	A**R**S**RDYYGSS**GFAF
1OTS-L1	SSVSYIH	SASSSVSYIH	SASSSVSYIH	SSVSY
1OTS-L2	RWI**YD**TS**K**LTS	**D**TS**K**LTS	**D**TS**K**LTS	**D**TS
1OTS-L3	QQWSSHPQ	QQWSSHPQT	QQWSSHPQT	QQWSSHPQT
1OTS-H1	FDYSRYWMS	RYWMS	GFDYSRY	GFDYSRYW
1OTS-H2	WIGEINPVSSTINY	EINPVSSTINYTPSLKD	NPVSST	INPVSSTI
1OTS-H3	RL**YYGY**GYW**Y**FDV	L**YYGY**GYW**Y**FDV	L**YYGY**GYW**Y**FDV	ARL**YYGY**GYW**Y**FDV
1P2C-L1	**QSI**SN**N**LH	RAS**QSI**SN**N**LH	RAS**QSI**SN**N**LH	**QSI**SN**N**

1P2C-L2	LLIK**Y**TSQSMS	**Y**TSQSMS	**Y**TSQSMS	**Y**TS
1P2C-L3	QQ**SGSW**P**R**	QQ**SGSW**P**R**T	QQ**SGSW**P**R**T	QQ**SGSW**P**R**T
1P2C-H1	YTF**TTYWIE**	**TYWIE**	GYTF**TTY**	GYTF**TTYW**
1P2C-H2	**W**IG**E**I**LP**G**SDSTY**Y	**E**I**LP**G**SDSTY**YNEKVKG	**LP**G**SDS**	I**LP**G**SDST**
1P2C-H3	**RGDGF**YVY	**GDGF**YVY	**GDGF**YVY	A**RGDGF**YVY
1P4B-L1	GAVTT**S**N**Y**ASW	RSSTGAVTT**S**N**Y**AS	RSSTGAVTT**S**N**Y**AS	TGAVTT**S**N**Y**
1P4B-L2	L**IGG**T**NNRAP**G	**G**T**NNRAP**	**G**T**NNRAP**	**G**T**N**
1P4B-L3	L**W**YSNH**W**V	AL**W**YSNH**W**V	AL**W**YSNH**W**V	AL**W**YSNH**W**V
1P4B-H1	**F**SLT**DYG**VN	**DYG**VN	G**F**SLT**DY**	G**F**SLT**DYG**
1P4B-H2	WLGVI**WGD**G**I**T**D**Y	VI**WGD**G**I**T**D**YNSALKS	**WGD**G**I**	I**WGD**G**I**T
1P4B-H3	**TGLFDY**	**GLFDY**	**GLFDY**	V**TGLFDY**
1PKQ-L1	QSL**LNSGN**QKN**Y**LA	KSSQSL**LNSGN**QKN**Y**LA	KSSQSL**LNSGN**QKN**Y**LA	QSL**LNSGN**QKN**Y**
1PKQ-L2	LLI**Y**GASTRES	GASTRES	GASTRES	GAS
1PKQ-L3	QN**DHSY**PL	QN**DHSY**PLT	QN**DHSY**PLT	QN**DHSY**PLT
1PKQ-H1	Y**T**F**SSFWIE**	**SFWIE**	GY**T**F**SSF**	GY**T**F**SSFW**
1PKQ-H2	WIG**E**I**L**PG**R**G**R**T**N**Y	**E**I**L**PG**R**G**R**T**N**YNEKFKG	**L**PG**R**G**R**	I**L**PG**R**G**R**T
1PKQ-H3	**TGNTMVNMP**Y	**GNTMVNMP**Y	**GNTMVNMP**Y	A**TGNTMVNMP**Y
1PZ5-L1	QSLL**H**S**D**G**N**T**Y**L**H**	RSSQSLL**H**S**D**G**N**T**Y**L**H**	RSSQSLL**H**S**D**G**N**T**Y**L**H**	QSLL**H**S**D**G**N**T**Y**
1PZ5-L2	LLIY**K**VSNRFS	**K**VSNRFS	**K**VSNRFS	**K**VS
1PZ5-L3	SQ**TTHVP**	SQ**TTHVP**T	SQ**TTHVP**T	SQ**TTHVP**T
1PZ5-H1	FTFS**NYW**M**E**	**NYW**M**E**	GFTFS**NY**	GFTFS**NYW**
1PZ5-H2	**W**VA**E**I**RL**KSNNYAT**HY**	**E**I**RL**KSNNYAT**HY**AESVKG	**RL**KSNNYA	I**RL**KSNNYAT
1PZ5-H3	R**GGAVGAM**DY	**GGAVGAM**DY	**GGAVGAM**DY	TR**GGAVGAM**DY
1Q1J-L1	SSNIGNN**Y**VL	SGSSSNIGNN**Y**VL	SGSSSNIGNN**Y**VL	SSNIGNN**Y**
1Q1J-L2	LLIY**G**NNKRPS	**G**NNKRPS	**G**NNKRPS	**G**NN
1Q1J-L3	A**TW**DSGLS**ADW**	A**TW**DSGLS**ADW**V	A**TW**DSGLS**ADW**V	A**TW**DSGLS**ADW**V
1Q1J-H1	FTFSDV**W**LN	DV**W**LN	GFTFSDV	GFTFSDV**W**
1Q1J-H2	WVG**R**I**K**SRT**D**GGTT**D**Y	**R**I**K**SRT**D**GGTT**D**YAASVKG	**K**SRT**D**GGT	I**K**SRT**D**GGTT
1Q1J-H3	T**DG**FIMIRGV**SEDYYYYY**MDV	**DG**FIMIRGV**SEDYYYYY**MDV	**DG**FIMIRGV**SEDYYYYY**MDV	TT**DG**FIMIRGV**SEDYYYYY**MDV
1QFU-L1	QTLVHSNGNTYLH	RSSQTLVHSNGNTYLH	RSSQTLVHSNGNTYLH	QTLVHSNGNTY
1QFU-L2	LLI**Y**KVSN**RFS**	KVSN**RFS**	KVSN**RFS**	KVS
1QFU-L3	SQNTHVPY	SQNTHVPYT	SQNTHVPYT	SQNTHVPYT
1QFU-H1	**YT**L**TTY**WMN	**TY**WMN	**GYT**L**TTY**	**GYT**L**TTY**W
1QFU-H2	WIGRI**D**P**YD**SETHY	RI**D**P**YD**SETHYNQKFKD	**D**P**YD**SE	I**D**P**YD**SET
1QFU-H3	**R**F**LQITTII**YGM**DY**	F**LQITTII**YGM**DY**	F**LQITTII**YGM**DY**	T**R**F**LQITTII**YGM**DY**
1QFW-L1	ESVDS**YGN**S**F**MQ	RASEDS**YGN**S**F**MQ	RASEDS**YGN**S**F**MQ	EDS**YGN**S**F**
1QFW-L2	LLIYRASNLES	RASNLES	RASNLES	RAS
1QFW-L3	QQSD**EY**PYMY	QQSD**EY**PYMYT	QQSD**EY**PYMYT	QQSD**EY**PYMYT
1QFW-H1	YTFTSYWMH	SYWMH	DYTFTSY	DYTFTSYW
1QFW-H2	WIGEINPTNGRTYY	EINPTNGRTYYNEK	NPTNGR	INPTNGRT
1QFW-H3	RRYGNSFDY	RYGNSFDY	RYGNSFDY	ARRYGNSFDY
1QKZ-L1	QSLV**HSN**GNT**Y**LH	RSSQSLV**HSN**GNT**Y**LH	RSSQSLV**HSN**GNT**Y**LH	QSLV**HSN**GNT**Y**
1QKZ-L2	LLIYTVSNRFS	TVSNRFS	TVSNRFS	TVS
1QKZ-L3	S**QSTHFP**	S**QSTHFP**T	S**QSTHFP**T	S**QSTHFP**T
1QKZ-H1	FTFS**DYY**M**F**	**DYY**M**F**	GFTFS**DY**	GFTFS**DYY**
1QKZ-H2	**W**V**AT**IS**D**GGAYT**YY**	**T**IS**D**GGAYT**YY**PDSVKG	S**D**GGAY	IS**D**GGAYT
1QKZ-H3	R**DPLEYYG**MDY	**DPLEYYG**MDY	**DPLEYYG**MDY	AR**DPLEYYG**MDY
1RJL-L1	QNINV**W**LN	HASQNINV**W**LN	HASQNINV**W**LN	QNINV**W**
1RJL-L2	LLIYMASNLHT	MASNLHT	MASNLHT	MAS
1RJL-L3	QQ**GQSF**P**L**	QQ**GQSF**P**L**T	QQ**GQSF**P**L**T	QQ**GQSF**P**L**T

1RJL-H1	F**T**F**TSSW**MH	**SSW**MH	GF**T**F**TSS**	GF**T**F**TSSW**
1RJL-H2	WIG**E**I**H**P**N**SGNT**H**Y	**E**I**H**P**N**SGNT**H**YNEKFKG	**H**P**N**SGN	I**H**P**N**SGNT
1RJL-H3	RMR**YGD**Y**Y**AMDN	MR**YGD**Y**Y**AMDN	MR**YGD**Y**Y**AMDN	ARMR**YGD**Y**Y**AMDN
1RZK-L1	ESVSSDLA	RASESVSSDLA	RASESVSSDLA	ESVSSD
1RZK-L2	LLIYGASTRAT	GASTRAT	GASTRAT	GAS
1RZK-L3	QQYNN**WPP**RY	QQYNN**WPP**RYT	QQYNN**WPP**RYT	QQYNN**WPP**RYT
1RZK-H1	DTFIRYSFT	RYSFT	GDTFIRY	GDTFIRYS
1RZK-H2	WMGRI**I**T**IL**D**V**A**H**Y	RI**I**T**IL**D**V**A**H**YAPHLQG	**I**T**IL**D**V**	I**I**T**IL**D**V**A
1RZK-H3	GVYEG**EA**D**EGEYDN**NGFLKH	VYEG**EA**D**EGEYDN**NGFLKH	VYEG**EA**D**EGEYDN**NGFLKH	AGVYEG**EA**D**EGEYDN**NGFLKH
1S78-L1	QDVSIGVA	KASQDVSIGVA	KASQDVSIGVA	QDVSIG
1S78-L2	**L**LIY**S**AS**Y**R**YT**	**S**AS**Y**R**YT**	**S**AS**Y**R**YT**	**S**AS
1S78-L3	QQYYI**Y**PY	QQYYI**Y**PYT	QQYYI**Y**PYT	QQYYI**Y**PYT
1S78-H1	F**T**F**TDYT**MD	**DYT**MD	GF**T**F**TDY**	GF**T**F**TDYT**
1S78-H2	WVADV**NPNSGGSIY**	DV**NPNSGGSIYNQ**RF**K**G	**NPNSGG**	V**NPNSGGS**
1S78-H3	**R**N**LGPS**F**Y**F**DY**	N**LGPS**F**Y**F**DY**	N**LGPS**F**Y**F**DY**	A**R**N**LGPS**F**Y**F**DY**
1SM3-L1	TGAVTT**S**N**Y**AN	RSSTGAVTT**S**N**Y**AN	RSSTGAVTT**S**N**Y**AN	TGAVTT**S**N**Y**
1SM3-L2	GLIGGTNNR**AP**	GTNNR**AP**	GTNNR**AP**	GTN
1SM3-L3	AL**W**Y**SN**H**W**	AL**W**Y**SN**H**W**V	AL**W**Y**SN**H**W**V	AL**W**Y**SN**H**W**V
1SM3-H1	**FT**FS**NYW**MN	**NYW**MN	**GFT**FS**NY**	**GFT**FS**NYW**
1SM3-H2	WVA**E**I**RL**KSNNYATHY	**E**I**RL**KSNNYATHYAESVKG	**RL**KSNNYA	I**RL**KSNNYAT
1SM3-H3	G**VGQ**F**AY**	**VGQ**F**AY**	**VGQ**F**AY**	TG**VGQ**F**AY**
1SY6-L1	SSV**SY**MN	SASSSV**SY**MN	SASSSV**SY**MN	SSV**SY**
1SY6-L2	RWIY**D**TSKLAS	**D**TSKLAS	**D**TSKLAS	**D**TS
1SY6-L3	QQ**WSSN**PF	QQ**WSSN**PFT	QQ**WSSN**PFT	QQ**WSSN**PFT
1SY6-H1	YTFT**RYT**M**H**	**RYT**M**H**	GYTFT**RY**	GYTFT**RYT**
1SY6-H2	WIG**Y**I**N**P**SR**G**Y**T**N**Y	**Y**I**N**P**SR**G**Y**T**N**YNQKFKD	**N**P**SR**G**Y**	I**N**P**SR**G**Y**T
1SY6-H3	R**Y**Y**DD**H**Y**CLDY	**Y**Y**DD**H**Y**CLDY	**Y**Y**DD**H**Y**CLDY	AR**Y**Y**DD**H**Y**CLDY
1TET-L1	QSIV**HSSGN**T**Y**FE	KSSQSIV**HSSGN**T**Y**FE	KSSQSIV**HSSGN**T**Y**FE	QSIV**HSSGN**T**Y**
1TET-L2	LLIY**K**VSNRFS	**K**VSNRFS	**K**VSNRFS	**K**VS
1TET-L3	FQ**GSHI**P**F**	FQ**GSHI**P**F**T	FQ**GSHI**P**F**T	FQ**GSHI**P**F**T
1TET-H1	YT**FTTYGMS**	**TYGMS**	GYT**FTTY**	GYT**FTTYG**
1TET-H2	**W**MG**WINTYS**GVPTY	**WINTYS**GVPTYADDFKG	**NTYS**GV	**INTYS**GVP
1TET-H3	R**RSW**Y**F**DV	**RSW**Y**F**DV	**RSW**Y**F**DV	AR**RSW**Y**F**DV
1TJI-L1	**Q**GVTSALA	RA**SQ**GVTSALA	RA**SQ**GVTSALA	**Q**GVTSA
1TJI-L2	LLIYDASSLES	DASSLES	DASSLES	DAS
1TJI-L3	QQ**LHFYPH**	QQ**LHFYPH**T	QQ**LHFYPH**T	QQ**LHFYPH**T
1TJI-H1	FSLSD**FGV**GVG	D**FGV**GVG	GFSLSD**FGV**	GFSLSD**FG**
1TJI-H2	WLAII**Y**S**D**D**D**K**R**Y	II**Y**S**D**D**D**K**R**YSPSLNT	**Y**S**D**D**D**	I**Y**S**D**D**D**K
1TJI-H3	H**RRGP**TTLFGV**PIARG**P**VN**AMDV	**RRGP**TTLFGV**PIARG**P**VN**AMDV	**RRGP**TTLFGV**PIARG**P**VN**AMDV	AH**RRGP**TTLFGV**PIARG**P**VN**AMDV
1TPX-L1	QSLL**D**S**DGKTYLN**	KSSQSLL**D**S**DGKTYLN**	KSSQSLL**D**S**DGKTYLN**	QSLL**D**S**DGKTY**
1TPX-L2	**R**LIY**L**VS**RLDS**	**L**VS**RLDS**	**L**VS**RLDS**	**L**VS
1TPX-L3	**WQGSHF**P**Q**	**WQGSHF**P**Q**T	**WQGSHF**P**Q**T	**WQGSHF**P**Q**T
1TPX-H1	Y**T**F**TNYGMN**	**NYGMN**	GY**T**F**TNY**	GY**T**F**TNYG**
1TPX-H2	**W**MG**WINTFT**GEPTY	**WINTFT**GEPTYADDFKG	**NTFT**GE	**INTFT**GEP
1TPX-H3	**RGTD**Y	**GTD**Y	**GTD**Y	T**RGTD**Y
1TZH-L1	**QASY**SSVA	RAS**QASY**SSVA	RAS**QASY**SSVA	**QASY**SS
1TZH-L2	LLIYAASYLYS	AASYLYS	AASYLYS	AAS
1TZH-L3	QSSASPA	QSSASPAT	QSSASPAT	QSSASPAT
1TZH-H1	FDIYDDDIH	DDDIH	GFDIYDD	GFDIYDDD

1TZH-H2	WVAYIAPS**YGYT**DY	YIAPS**YGYT**DYADSVKG	APS**YGY**	IAPS**YGYT**
1TZH-H3	RSSDASYSYSAMDY	SSDASYSYSAMDY	SSDASYSYSAMDY	SRSSDASYSYSAMDY
1TZI-L1	QS**Y**AYAVA	RASQS**Y**AYAVA	RASQS**Y**AYAVA	QS**Y**AYA
1TZI-L2	LLIYDASYLYS	DASYLYS	DASYLYS	DAS
1TZI-L3	QQA**Y**SSPD	QQA**Y**SSPDT	QQA**Y**SSPDT	QQA**Y**SSPDT
1TZI-H1	FAI**Y**DYDIH	DYDIH	GFAI**Y**DY	GFAI**Y**DYD
1TZI-H2	WVADIA**PYAG**ATAY	DIA**PYAG**ATAYADSVKG	A**PYAG**A	IA**PYAG**AT
1TZI-H3	RSS**Y**AYYAAMDY	SS**Y**AYYAAMDY	SS**Y**AYYAAMDY	SRSS**Y**AYYAAMDY
1U8L-L1	QGVTS**A**LA	RASQGVTS**A**LA	RASQGVTS**A**LA	QGVTS**A**
1U8L-L2	LLIYDASSLES	DASSLES	DASSLES	DAS
1U8L-L3	Q**QLHFYPH**	Q**QLHFYPH**T	Q**QLHFYPH**T	Q**QLHFYPH**T
1U8L-H1	FSLSD**FGV**GVG	D**FGV**GVG	GFSLSD**FGV**	GFSLSD**FG**
1U8L-H2	WLAII**YSDDD**K**R**Y	II**YSDDD**K**R**YSPSLNT	**YSDDD**	I**YSDDD**K
1U8L-H3	H**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	AH**RRGP**TTLFGVPIA**R**GP**VN**AMDV
1U8M-L1	QGVTSALA	RASQGVTSALA	RASQGVTSALA	QGVTSA
1U8M-L2	LLIYDASSLES	DASSLES	DASSLES	DAS
1U8M-L3	QQ**LHFYPH**	QQ**LHFYPH**T	QQ**LHFYPH**T	QQ**LHFYPH**T
1U8M-H1	FSLSD**FGV**GVG	D**FGV**GVG	GFSLSD**FGV**	GFSLSD**FG**
1U8M-H2	WLAII**Y**S**D**D**D**K**R**Y	II**Y**S**D**D**D**K**R**YSPSLNT	**Y**S**D**D**D**	I**Y**S**D**D**D**K
1U8M-H3	H**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	AH**RRGP**TTLFGVPIA**R**GP**VN**AMDV
1U8N-L1	QGVTSALA	RASQGVTSALA	RASQGVTSALA	QGVTSA
1U8N-L2	LLIYDASSLES	DASSLES	DASSLES	DAS
1U8N-L3	QQ**LHFYPH**	QQ**LHFYPH**T	QQ**LHFYPH**T	QQ**LHFYPH**T
1U8N-H1	FSLSD**FGV**GVG	D**FGV**GVG	GFSLSD**FGV**	GFSLSD**FG**
1U8N-H2	WLAII**Y**S**D**D**D**K**R**Y	II**Y**S**D**D**D**K**R**YSPSLNT	**Y**S**D**D**D**	I**Y**S**D**D**D**K
1U8N-H3	H**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	AH**RRGP**TTLFGVPIA**R**GP**VN**AMDV
1U8O-L1	QGV**T**SALA	RASQGV**T**SALA	RASQGV**T**SALA	QGV**T**SA
1U8O-L2	LLIYDASSLES	DASSLES	DASSLES	DAS
1U8O-L3	QQ**LHFYPH**	QQ**LHFYPH**T	QQ**LHFYPH**T	QQ**LHFYPH**T
1U8O-H1	FSLSDF**G**VGVG	DF**G**VGVG	GFSLSDF**G**V	GFSLSDF**G**
1U8O-H2	WLAII**Y**S**D**D**D**K**R**Y	II**Y**S**D**D**D**K**R**YSPSLNT	**Y**S**D**D**D**	I**Y**S**D**D**D**K
1U8O-H3	H**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	AH**RRGP**TTLFGVPIA**R**GP**VN**AMDV
1U8P-L1	QGVTSALA	RASQGVTSALA	RASQGVTSALA	QGVTSA
1U8P-L2	LLIYDASSLES	DASSLES	DASSLES	DAS
1U8P-L3	QQ**LHFYPH**	QQ**LHFYPH**T	QQ**LHFYPH**T	QQ**LHFYPH**T
1U8P-H1	FSLSD**FGV**GVG	D**FGV**GVG	GFSLSD**FGV**	GFSLSD**FG**
1U8P-H2	WLAII**Y**S**D**D**D**K**R**Y	II**Y**S**D**D**D**K**R**YSPSLNT	**Y**S**D**D**D**	I**Y**S**D**D**D**K
1U8P-H3	H**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	AH**RRGP**TTLFGVPIA**R**GP**VN**AMDV
1U8Q-L1	QG**VTSA**LA	RASQG**VTSA**LA	RASQG**VTSA**LA	QG**VTSA**
1U8Q-L2	LLIYDASSLES	DASSLES	DASSLES	DAS
1U8Q-L3	Q**QLHFYPH**	Q**QLHFYPH**T	Q**QLHFYPH**T	Q**QLHFYPH**T
1U8Q-H1	FSLSD**FGV**GVG	D**FGV**GVG	GFSLSD**FGV**	GFSLSD**FG**
1U8Q-H2	WLA**I**I**Y**S**D**D**D**K**R**Y	**I**I**Y**S**D**D**D**K**R**YSPSLNT	**Y**S**D**D**D**	I**Y**S**D**D**D**K
1U8Q-H3	H**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	AH**RRGP**TTLFGVPIA**R**GP**VN**AMDV
1U92-L1	QGVTS**A**LA	RASQGVTS**A**LA	RASQGVTS**A**LA	QGVTS**A**
1U92-L2	LLIYDASSLES	DASSLES	DASSLES	DAS

1U92-L3	QQ**LHFYPH**	QQ**LHFYPH**T	QQ**LHFYPH**T	QQ**LHFYPH**T
1U92-H1	FSLSD**FGV**GVG	D**FGV**GVG	GFSLSD**FGV**	GFSLSD**FG**
1U92-H2	WLAII**Y**S**DDD**K**R**Y	II**Y**S**DDD**K**R**YSPSLNT	**Y**S**DDD**	I**Y**S**DDD**K
1U92-H3	H**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	AH**RRGP**TTLFGVPIA**R**GP**VN**AMDV
1U93-L1	QGV**T**SALA	RASQGV**T**SALA	RASQGV**T**SALA	QGV**T**SA
1U93-L2	LLIYDASSLES	DASSLES	DASSLES	DAS
1U93-L3	QQ**LHFYPH**	QQ**LHFYPH**T	QQ**LHFYPH**T	QQ**LHFYPH**T
1U93-H1	FSLSD**FGV**GVG	D**FGV**GVG	GFSLSD**FGV**	GFSLSD**FG**
1U93-H2	WLAII**Y**S**D**D**D**K**R**Y	II**Y**S**D**D**D**K**R**YSPSLNT	**Y**S**D**D**D**	I**Y**S**D**D**D**K
1U93-H3	H**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	AH**RRGP**TTLFGVPIA**R**GP**VN**AMDV
1U95-L1	QGVTSALA	RASQGVTSALA	RASQGVTSALA	QGVTSA
1U95-L2	LLIYDASSLES	DASSLES	DASSLES	DAS
1U95-L3	QQ**LHFYPH**	QQ**LHFYPH**T	QQ**LHFYPH**T	QQ**LHFYPH**T
1U95-H1	FSLSD**FGV**GVG	D**FGV**GVG	GFSLSD**FGV**	GFSLSD**FG**
1U95-H2	WLAII**Y**S**D**D**D**K**R**Y	II**Y**S**D**D**D**K**R**YSPSLNT	**Y**S**D**D**D**	I**Y**S**D**D**D**K
1U95-H3	H**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	**RRGP**TTLFGVPIA**R**GP**VN**AMDV	AH**RRGP**TTLFGVPIA**R**GP**VN**AMDV
1UAC-L1	QS**IGNN**LH	RASQS**IGNN**LH	RASQS**IGNN**LH	QS**IGNN**
1UAC-L2	LLI**KY**A**SQ**SIS	**Y**A**SQ**SIS	**Y**A**SQ**SIS	**Y**A**S**
1UAC-L3	QQ**SNSW**P**Y**	QQ**SNSW**P**Y**T	QQ**SNSW**P**Y**T	QQ**SNSW**P**Y**T
1UAC-H1	**D**SI**TSDY**WS	**SDY**WS	G**D**SI**TSD**	G**D**SI**TSDY**
1UAC-H2	YMG**Y**V**SSF**G**S**T**F**Y	**Y**V**SSF**G**S**T**F**YNPSLKS	**SSF**G**S**	V**SSF**G**S**T
1UAC-H3	**NWD**GDY	**WD**GDY	**WD**GDY	A**NWD**GDY
1UJ3-L1	**Q**DI**K**S**F**LS	KAS**Q**DI**K**S**F**LS	KAS**Q**DI**K**S**F**LS	**Q**DI**K**S**F**
1UJ3-L2	SLIY**Y**ATSLAD	**Y**ATSLAD	**Y**ATSLAD	**Y**AT
1UJ3-L3	LQ**HGESPY**	LQ**HGESPY**T	LQ**HGESPY**T	LQ**HGESPY**T
1UJ3-H1	**FNIKDYY**M**H**	**DYY**M**H**	G**FNIKDY**	G**FNIKDYY**
1UJ3-H2	WIGG**NDPANGHSMY**	G**NDPANGHSMY**DPKF**Q**G	**DPANGH**	**NDPANGHS**
1UJ3-H3	R**DSGYA**MDY	**DSGYA**MDY	**DSGYA**MDY	AR**DSGYA**MDY
1UWX-L1	QTIGT**W**LA	LASQTIGT**W**LA	LASQTIGT**W**LA	QTIGT**W**
1UWX-L2	LLIYAATSLAD	AATSLAD	AATSLAD	AAT
1UWX-L3	QQ**LSS**TP**Y**	QQ**LSS**TP**Y**T	QQ**LSS**TP**Y**T	QQ**LSS**TP**Y**T
1UWX-H1	YT**FTNFGL**N	**NFGL**N	GYT**FTNF**	GYT**FTNFG**
1UWX-H2	WMG**WINTYT**GESTY	**WINTYT**GESTYADDFKG	**NTYT**GE	**INTYT**GES
1UWX-H3	R**GFYYYG**SR**YF**YFDY	**GFYYYG**SR**YF**YFDY	**GFYYYG**SR**YF**YFDY	AR**GFYYYG**SR**YF**YFDY
1V7M-L1	SSV**SY**M**Y**	SASSSV**SY**M**Y**	SASSSV**SY**M**Y**	SSV**SY**
1V7M-L2	**L**WI**YS**TS**N**LAS	**S**TS**N**LAS	**S**TS**N**LAS	**S**TS
1V7M-L3	QQ**R**SG**Y**P**R**	QQ**R**SG**Y**P**R**T	QQ**R**SG**Y**P**R**T	QQ**R**SG**Y**P**R**T
1V7M-H1	F**T**FS**DAWM**D	**DAWM**D	GF**T**FS**DA**	GF**T**FS**DAW**
1V7M-H2	WVA**E**I**RS**K**VN**NHAIHY	**E**I**RS**K**VN**NHAIHYAESVKG	**RS**K**VN**NHA	I**RS**K**VN**NHAI
1V7M-H3	**GWS**F**LY**	**WS**F**LY**	**WS**F**LY**	S**GWS**F**LY**
1VFB-L1	G**NIHNY**LA	RASG**NIHNY**LA	RASG**NIHNY**LA	G**NIHNY**
1VFB-L2	LLV**YY**T**TT**LAD	**Y**T**TT**LAD	**Y**T**TT**LAD	**Y**T**T**
1VFB-L3	QH**FWST**P**R**	QH**FWST**P**R**T	QH**FWST**P**R**T	QH**FWST**P**R**T
1VFB-H1	F**S**L**TGYG**VN	**GYG**VN	GF**S**L**TGY**	GF**S**L**TGYG**
1VFB-H2	WLGMI**WGDG**NT**D**Y	MI**WGDG**NT**D**YNSALKS	**WGDG**N	I**WGDG**NT
1VFB-H3	**R**E**RDYR**LDY	E**RDYR**LDY	E**RDYR**LDY	A**R**E**RDYR**LDY
1W72-L1	NIGSRSVH	GGNNIGSRSVH	GGNNIGSRSVH	NIGSRS
1W72-L2	LVVYDDSDRPS	DDSDRPS	DDSDRPS	DDS

1W72-L3	QVWDSRTDHW	QVWDSRTDHWV	QVWDSRTDHWV	QVWDSRTDHWV
1W72-H1	FTFDDYAMH	DYAMH	GFTFDDY	GFTFDDYA
1W72-H2	WVSGISWNSGSIGY	GISWNSGSIGYADSVKG	SWNSGS	ISWNSGSI
1W72-H3	RGRGFHYYYYGMDI	GRGFHYYYYGMDI	GRGFHYYYYGMDI	ARGRGFHYYYYGMDI
1WEJ-L1	GNIHNYLA	RASGNIHNYLA	RASGNIHNYLA	GNIHNY
1WEJ-L2	LLVYNAKTLAD	NAKTLAD	NAKTLAD	NAK
1WEJ-L3	QHFWSTPW	QHFWSTPWT	QHFWSTPWT	QHFWSTPWT
1WEJ-H1	FNIKDTYMH	DTYMH	GFNIKDT	GFNIKDTY
1WEJ-H2	WIGRIDPASGNTKY	RIDPASGNTKYDPKFQD	DPASGN	IDPASGNT
1WEJ-H3	GYDYGNFDY	YDYGNFDY	YDYGNFDY	AGYDYGNFDY
1XCQ-L1	QSLLNSRTRKNYLA	KSSQSLLNSRTRKNYLA	KSSQSLLNSRTRKNYLA	QSLLNSRTRKNY
1XCQ-L2	VLIYWASTRES	WASTRES	WASTRES	WAS
1XCQ-L3	KQAYIPPL	KQAYIPPLT	KQAYIPPLT	KQAYIPPLT
1XCQ-H1	YTFTDFSMH	DFSMH	GYTFTDF	GYTFTDFS
1XCQ-H2	WMGWVNTETGEPTY	WVNTETGEPTYADDFKG	NTETGE	VNTETGEP
1XCQ-H3	RFLLRQYFDV	FLLRQYFDV	FLLRQYFDV	ARFLLRQYFDV
1XCT-L1	QSLLNSRTRKNYLA	KSSQSLLNSRTRKNYLA	KSSQSLLNSRTRKNYLA	QSLLNSRTRKNY
1XCT-L2	VLIYWASTRES	WASTRES	WASTRES	WAS
1XCT-L3	KQAYIPPL	KQAYIPPLT	KQAYIPPLT	KQAYIPPLT
1XCT-H1	YTFTDFSMH	DFSMH	GYTFTDF	GYTFTDFS
1XCT-H2	WMGWVNTETGEPTY	WVNTETGEPTYADDFKG	NTETGE	VNTETGEP
1XCT-H3	RFLLRQYFDV	FLLRQYFDV	FLLRQYFDV	ARFLLRQYFDV
1XGU-L1	QSISNNLH	RASQSISNNLH	RASQSISNNLH	QSISNN
1XGU-L2	LLIKYASQSIS	YASQSIS	YASQSIS	YAS
1XGU-L3	QQSNSWPY	QQSNSWPYT	QQSNSWPYT	QQSNSWPYT
1XGU-H1	DSVTSDFWS	SDFWS	GDSVTSD	GDSVTSDF
1XGU-H2	YMGYISYSGSTYY	YISYSGSTYYHPSLKS	SYSGS	ISYSGST
1XGU-H3	SWGGDV	WGGDV	WGGDV	ASWGGDV
1XGY-L1	KSLLHSNGITYLY	RSSKSLLHSNGITYLY	RSSKSLLHSNGITYLY	KSLLHSNGITY
1XGY-L2	LLIYRMSNLAS	RMSNLAS	RMSNLAS	RMS
1XGY-L3	GQMLEHPL	GQMLEHPLT	GQMLEHPLT	GQMLEHPLT
1XGY-H1	YTFTDYYIN	DYYIN	GYTFTDY	GYTFTDYY
1XGY-H2	WIGWIFPRNGNTKY	WIFPRNGNTKYNEKFKG	FPRNGN	IFPRNGNT
1XGY-H3	TTVSYVMDY	TVSYVMDY	TVSYVMDY	ATTVSYVMDY
1XIW-L1	QDIRNYLN	RASQDIRNYLN	RASQDIRNYLN	QDIRNY
1XIW-L2	LLIYYTSRLHS	YTSRLHS	YTSRLHS	YTS
1XIW-L3	QQGNTLPW	QQGNTLPWT	QQGNTLPWT	QQGNTLPWT
1XIW-H1	YSFTGYTMN	GYTMN	GYSFTGY	GYSFTGYT
1XIW-H2	WMGLINPYKGVSTY	LINPYKGVSTYNQKFKD	NPYKGV	INPYKGVS
1XIW-H3	RSGYYGDSDWYFDV	SGYYGDSDWYFDV	SGYYGDSDWYFDV	ARSGYYGDSDWYFDV
1YJD-L1	QNIYVWLN	HASQNIYVWLN	HASQNIYVWLN	QNIYVW
1YJD-L2	LLIYKASNLHT	KASNLHT	KASNLHT	KAS
1YJD-L3	QQGQTYPY	QQGQTYPYT	QQGQTYPYT	QQGQTYPYT
1YJD-H1	YTFTSYYIH	SYYIH	GYTFTSY	GYTFTSYY
1YJD-H2	WIGCIYPGNVNTNY	CIYPGNVNTNYNEKFKD	YPGNVN	IYPGNVNT
1YJD-H3	RSHYGLDWNFDV	SHYGLDWNFDV	SHYGLDWNFDV	TRSHYGLDWNFDV
1YNT-L1	QDISNYLN	RASQDISNYLN	RASQDISNYLN	QDISNY
1YNT-L2	LLIYYTSRLHS	YTSRLHS	YTSRLHS	YTS
1YNT-L3	QQGNTLPY	QQGNTLPYT	QQGNTLPYT	QQGNTLPYT
1YNT-H1	YTFTDYGMH	DYGMH	GYTFTDY	GYTFTDYG

1YNT-H2	WIG**IISTYSGDASY**	**IISTYSGDASY**N**Q**KFKG	**STYSGD**	**ISTYSGDA**
1YNT-H3	R**SSTWY**YFDY	**SSTWY**YFDY	**SSTWY**YFDY	AR**SSTWY**YFDY
1YQV-L1	SSV**NY**M**Y**	SASSSV**NY**M**Y**	SASSSV**NY**M**Y**	SSV**NY**
1YQV-L2	RWIY**D**TSKLAS	**D**TSKLAS	**D**TSKLAS	**D**TS
1YQV-L3	Q**QWGRNP**	Q**QWGRNP**T	Q**QWGRNP**T	Q**QWGRNP**T
1YQV-H1	YTF**SDYW**I**E**	**DYW**I**E**	GYTF**SDY**	GYTF**SDYW**
1YQV-H2	**W**IG**E**I**L**PG**SGSTN**Y	**E**I**L**PG**SGSTN**YHERFKG	**L**PG**SGS**	I**L**PG**SGST**
1YQV-H3	H**GNYD**FDG	**GNYD**FDG	**GNYD**FDG	LH**GNYD**FDG
1YY9-L1	**QS**IGT**N**IH	RA**SQS**IGT**N**IH	RA**SQS**IGT**N**IH	**QS**IGT**N**
1YY9-L2	LLI**KY**ASESIS	**Y**ASESIS	**Y**ASESIS	**Y**AS
1YY9-L3	QQ**NNNWPT**	QQ**NNNWPT**T	QQ**NNNWPT**T	QQ**NNNWPT**T
1YY9-H1	FSLT**N**YGVH	**N**YGVH	GFSLT**N**Y	GFSLT**N**YG
1YY9-H2	WLGVI**WSGGNTDY**	VI**WSGGNTDY**NTPFTS	**WSGGN**	I**WSGGNT**
1YY9-H3	RAL**TYYDYE**FAY	AL**TYYDYE**FAY	AL**TYYDYE**FAY	ARAL**TYYDYE**FAY
1Z3G-L1	SSVS**Y**MN	SASSSVS**Y**MN	SASSSVS**Y**MN	SSVS**Y**
1Z3G-L2	RWIYDTSKLAS	DTSKLAS	DTSKLAS	DTS
1Z3G-L3	QQ**W**SSNPP	QQ**W**SSNPPT	QQ**W**SSNPPT	QQ**W**SSNPPT
1Z3G-H1	Y**T**F**TSYW**M**H**	**SYW**M**H**	GY**T**F**TSY**	GY**T**F**TSYW**
1Z3G-H2	WIG**M**I**H**P**HS**G**STN**Y	**M**I**H**P**HS**G**STN**YNEKFKS	**H**P**HS**G**S**	I**H**P**HS**G**ST**
1Z3G-H3	**RGWD**VAY	**GWD**VAY	**GWD**VAY	A**RGWD**VAY
1ZA3-L1	**QDVNTA**VA	RAS**QDVNTA**VA	RAS**QDVNTA**VA	**QDVNTA**
1ZA3-L2	LLIY**A**ASYLYS	**A**ASYLYS	**A**ASYLYS	**A**AS
1ZA3-L3	QSS**SSPY**	QSS**SSPY**T	QSS**SSPY**T	QSS**SSPY**T
1ZA3-H1	FSIY**S**YSIH	**S**YSIH	GFSIY**S**Y	GFSIY**S**YS
1ZA3-H2	WVASISP**YSGYT**SY	SISP**YSGYT**SYA**DSVKG**	SP**YSGY**	ISP**YSGYT**
1ZA3-H3	R**Y**S**SYYSYY**YSSSS**Y**S**Y**AMDY	**Y**S**SYYSYY**YSSSS**Y**S**Y**AMDY	**Y**S**SYYSYY**YSSSS**Y**S**Y**AMDY	SR**Y**S**SYYSYY**YSSSS**Y**S**Y**AMDY
1ZTX-L1	QDV**STA**VA	KASQDV**STA**VA	KASQDV**STA**VA	QDV**STA**
1ZTX-L2	LLIS**W**ASTRHT	**W**ASTRHT	**W**ASTRHT	**W**AS
1ZTX-L3	QQ**HYTT**P**L**	QQ**HYTT**P**L**T	QQ**HYTT**P**L**T	QQ**HYTT**P**L**T
1ZTX-H1	**YTF**S**DYW**I**E**	**DYW**I**E**	**GYTF**S**DY**	**GYTF**S**DYW**
1ZTX-H2	WIGDI**L**CGTG**R**T**R**Y	DI**L**CGTG**R**T**R**YNEKLKA	**L**CGTG**R**	I**L**CGTG**R**T
1ZTX-H3	**RSASYGDY**ADY	**SASYGDY**ADY	**SASYGDY**ADY	A**RSASYGDY**ADY
2A6I-L1	QDISN**Y**LN	RASQDISN**Y**LN	RASQDISN**Y**LN	QDISN**Y**
2A6I-L2	LLI**Y**YTSR**L**HS	YTSR**L**HS	YTSR**L**HS	YTS
2A6I-L3	QQGNT**L**P**R**	QQGNT**L**P**R**T	QQGNT**L**P**R**T	QQGNT**L**P**R**T
2A6I-H1	YTF**TSYGIN**	**SYGIN**	GYTF**TSY**	GYTF**TSYG**
2A6I-H2	**W**IG**YINP**GNGYTKY	**YINP**GNGYTKYNEKFKG	**NP**GNGY	**INP**GNGYT
2A6I-H3	**RSVYYGG**S**YYF**DY	**SVYYGG**S**YYF**DY	**SVYYGG**S**YYF**DY	**ARSVYYGG**S**YYF**DY
2ADF-L1	QDINK**Y**IA	KASQDINK**Y**IA	KASQDINK**Y**IA	QDINK**Y**
2ADF-L2	LLI**HY**TS**T**L**QP**	**Y**TS**T**L**QP**	**Y**TS**T**L**QP**	**Y**TS
2ADF-L3	LQ**YDNLR**	LQ**YDNLR**T	LQ**YDNLR**T	LQ**YDNLR**T
2ADF-H1	Y**T**F**INYG**M**N**	**NYG**M**N**	GY**T**F**INY**	GY**T**F**INYG**
2ADF-H2	**W**MG**W**K**N**T**NT**G**E**TTY	**W**K**N**T**NT**G**E**TTYGEEFRG	**N**T**NT**G**E**	K**N**T**NT**G**E**T
2ADF-H3	**RDNPYY**ALD**Y**	**DNPYY**ALD**Y**	**DNPYY**ALD**Y**	A**RDNPYY**ALD**Y**
2AEP-L1	QN**V**G**TN**VA	KASQN**V**G**TN**VA	KASQN**V**G**TN**VA	QN**V**G**TN**
2AEP-L2	PLM**YS**A**SYR**Y**S**	**S**A**SYR**Y**S**	**S**A**SYR**Y**S**	**S**A**S**
2AEP-L3	QQ**FN**R**Y**PL	QQ**FN**R**Y**PLT	QQ**FN**R**Y**PLT	QQ**FN**R**Y**PLT
2AEP-H1	F**T**F**ID**Y**Y**MS	**D**Y**Y**MS	GF**T**F**ID**Y	GF**T**F**ID**Y**Y**
2AEP-H2	WLG**L**I**RNKGNG**Y**T**M**E**Y	**L**I**RNKGNG**Y**T**M**E**YSASLKG	**RNKGNG**Y**T**	I**RNKGNG**Y**T**M
2AEP-H3	RV**DYGTN**YDY	V**DYGTN**YDY	V**DYGTN**YDY	ARV**DYGTN**YDY

2AP2-L1	SLL**N**SG**N**QKN**Y**LTW	KSSQSLL**N**SG**N**QKN**Y**LT	KSSQSLL**N**SG**N**QKN**Y**LT	QSLL**N**SG**N**QKN**Y**
2AP2-L2	LIY**W**ASTRESG	**W**ASTRES	**W**ASTRES	**W**AS
2AP2-L3	**NDYSY**P**L**T	Q**NDYSY**P**L**T	Q**NDYSY**P**L**T	Q**NDYSY**P**L**T
2AP2-H1	FNIKDD**F**MH	DD**F**MH	GFNIKDD	GFNIKDD**F**
2AP2-H2	WIG**R**I**D**PA**N**DNT**K**Y	**R**I**D**PA**N**DNT**K**YAPKFQD	**D**PA**N**DN	I**D**PA**N**DNT
2AP2-H3	R**REVYSYYS**PLDV	**REVYSYYS**PLDV	**REVYSYYS**PLDV	AR**REVYSYYS**PLDV
2ARJ-L1	QNVR**NN**IA	KASQNVR**NN**IA	KASQNVR**NN**IA	QNVR**NN**
2ARJ-L2	LLI**YY**AS**Y**RYT	**Y**AS**Y**RYT	**Y**AS**Y**RYT	**Y**AS
2ARJ-L3	QR**IYNS**P**Y**	QR**IYNS**P**Y**T	QR**IYNS**P**Y**T	QR**IYNS**P**Y**T
2ARJ-H1	F**S**L**TSNS**VH	**SNS**VH	GF**S**L**TSN**	GF**S**L**TSNS**
2ARJ-H2	WMGGI**WGD**G**D**TDY	GI**WGD**G**D**TDYNSALKS	**WGD**G**D**	I**WGD**G**D**T
2ARJ-H3	P**LIGSWY**F**D**F	**LIGSWY**F**D**F	**LIGSWY**F**D**F	TP**LIGSWY**F**D**F
2B0S-L1	SSNVE**NNY**V**Y**	SGTSSNVE**NNY**V**Y**	SGTSSNVE**NNY**V**Y**	SSNVE**NNY**
2B0S-L2	LLIY**RN**DHRSS	**RN**DHRSS	**RN**DHRSS	**RN**D
2B0S-L3	AA**WDD**SR**GGPD**W	AA**WDD**SR**GGPD**WV	AA**WDD**SR**GGPD**WV	AA**WDD**SR**GGPD**WV
2B0S-H1	YSF**SDYW**IG	**DYW**IG	GYSF**SDY**	GYSF**SDYW**
2B0S-H2	WMG**I**F**Y**P**GD**S**DSR**Y	**I**F**Y**P**GD**S**DSR**YSPSFEG	**Y**P**GD**S**D**	F**Y**P**GD**S**DS**
2B0S-H3	R**L**GG**DYEDSGAD**AFDF	**L**GG**DYEDSGAD**AFDF	**L**GG**DYEDSGAD**AFDF	AR**L**GG**DYEDSGAD**AFDF
2B1A-L1	SSNVE**NNYVY**	SGTSSNVE**NNYVY**	SGTSSNVE**NNYVY**	SSNVE**NNY**
2B1A-L2	LLIY**RN**DHRSS	**RN**DHRSS	**RN**DHRSS	**RN**D
2B1A-L3	AA**WDD**SR**GGP**DW	AA**WDD**SR**GGP**DWV	AA**WDD**SR**GGP**DWV	AA**WDD**SR**GGP**DWV
2B1A-H1	YSFS**DYW**IG	**DYW**IG	GYSFS**DY**	GYSFS**DYW**
2B1A-H2	WMG**I**F**Y**PG**D**S**DSR**Y	**I**F**Y**PG**D**S**DSR**YSPSFEG	**Y**PG**D**S**D**	F**Y**PG**D**S**DS**
2B1A-H3	R**LGGDYEDSGAD**AFDF	**LGGDYEDSGAD**AFDF	**LGGDYEDSGAD**AFDF	AR**LGGDYEDSGAD**AFDF
2B1H-L1	SSNVE**NNY**V**Y**	SGTSSNVE**NNY**V**Y**	SGTSSNVE**NNY**V**Y**	SSNVE**NNY**
2B1H-L2	LLIY**R**NDHRSS	**R**NDHRSS	**R**NDHRSS	**R**ND
2B1H-L3	AA**WDD**SR**GGP**DW	AA**WDD**SR**GGP**DWV	AA**WDD**SR**GGP**DWV	AA**WDD**SR**GGP**DWV
2B1H-H1	YSFS**DYW**IG	**DYW**IG	GYSFS**DY**	GYSFS**DYW**
2B1H-H2	WMG**I**F**Y**PG**D**S**DSR**Y	**I**F**Y**PG**D**S**DSR**YSPSFEG	**Y**PG**D**S**D**	F**Y**PG**D**S**DS**
2B1H-H3	R**L**GGDY**EDSGAD**AFDF	**L**GGDY**EDSGAD**AFDF	**L**GGDY**EDSGAD**AFDF	AR**L**GG**D**Y**EDSGAD**AFDF
2B2X-L1	**SQVNH**MF	SAS**SQVNH**MF	SAS**SQVNH**MF	**SQVNH**
2B2X-L2	PWI**YL**TS**Y**LAS	**L**TS**Y**LAS	**L**TS**Y**LAS	**L**TS
2B2X-L3	Q**QWSGNPW**	Q**QWSGNPW**T	Q**QWSGNPW**T	Q**QWSGNPW**T
2B2X-H1	FTF**SR**Y**T**MS	**R**Y**T**MS	GFTF**SR**Y	GFTF**SR**Y**T**
2B2X-H2	**W**VA**VISGG**G**H**T**YY**	**VISGG**G**H**T**YYL**DSVEG	**SGG**G**H**	**ISGG**G**H**T
2B2X-H3	RG**FGDGG**YFDV	G**FGDGG**YFDV	G**FGDGG**YFDV	TRG**FGDGG**YFDV
2B4C-L1	QSV**S**SGSLA	RASQSV**S**SGSLA	RASQSV**S**SGSLA	QSV**S**SGS
2B4C-L2	LLIYGASTRAT	GASTRAT	GASTRAT	GAS
2B4C-L3	QQY**GTSP**Y	QQY**GTSP**YT	QQY**GTSP**YT	QQY**GTSP**YT
2B4C-H1	G**T**F**SM**YGFN	**M**YGFN	GG**T**F**SM**Y	GG**T**F**SM**YG
2B4C-H2	WMGGIIP**IF**G**T**S**NY**	GIIP**IF**G**T**S**NY**A**Q**KF**R**G	IP**IF**G**T**	IIP**IF**G**T**S
2B4C-H3	RDFG**PDWE**D**GDSYDG**SGRGFFDF	DFG**PDWE**D**GDSYDG**SGRGFFDF	DFG**PDWE**D**GDSYDG**SGRGFFDF	ARDFG**PDWE**D**GDSYDG**SGRGFFDF
2BDN-L1	EDI**YNR**LA	KATEDI**YNR**LA	KATEDI**YNR**LA	EDI**YNR**
2BDN-L2	LLI**SGA**T**S**L**ET**	**GA**T**S**L**ET**	**GA**T**S**L**ET**	**GA**T
2BDN-L3	QQ**FW**SAPY	QQ**FW**SAPYT	QQ**FW**SAPYT	QQ**FW**SAPYT
2BDN-H1	**LNIKDTY**MH	**DTY**MH	**GLNIKDT**	**GLNIKDTY**
2BDN-H2	WIG**R**I**DPA**NGNTKF	**R**I**DPA**NGNTKFDPKFQG	**DPA**NGN	I**DPA**NGNT
2BDN-H3	**RGVF**G**F**F**DY**	**GVF**G**F**F**DY**	**GVF**G**F**F**DY**	A**RGVF**G**F**F**DY**
2BOC-L1	**QS**IGT**D**IH	RAS**QS**IGT**D**IH	RAS**QS**IGT**D**IH	**QS**IGT**D**
2BOC-L2	LLIK**Y**ASESIS	**Y**ASESIS	**Y**ASESIS	**Y**AS

2BOC-L3	QQSNRWPF	QQSNRWPFT	QQSNRWPFT	QQSNRWPFT
2BOC-H1	YTFTSDWIH	SDWIH	GYTFTSD	GYTFTSDW
2BOC-H2	WIGEIIPSYGRANY	EIIPSYGRANYNEKIQK	IPSYGR	IIPSYGRA
2BOC-H3	RERGDGYFAV	ERGDGYFAV	ERGDGYFAV	ARERGDGYFAV
2BRR-L1	SSVSSSYLH	RASSSVSSSYLH	RASSSVSSSYLH	SSVSSSY
2BRR-L2	LWIYSTSNLAS	STSNLAS	STSNLAS	STS
2BRR-L3	QQYSGYPY	QQYSGYPYT	QQYSGYPYT	QQYSGYPYT
2BRR-H1	YTFTNYGMN	NYGMN	GYTFTNY	GYTFTNYG
2BRR-H2	WMGWINTYTGEPTY	WINTYTGEPTYADDFKE	NTYTGE	INTYTGEP
2BRR-H3	RDYYGSTYPYYAMDY	DYYGSTYPYYAMDY	DYYGSTYPYYAMDY	ARDYYGSTYPYYAMDY
2CK0-L1	QNLLHSITRKNYLA	KSSQNLLHSITRKNYLA	KSSQNLLHSITRKNYLA	QNLLHSITRKNY
2CK0-L2	LLIYWASTRGS	WASTRGS	WASTRGS	WAS
2CK0-L3	KQSYNLY	KQSYNLYT	KQSYNLYT	KQSYNLYT
2CK0-H1	FTFNTDAMN	TDAMN	GFTFNTD	GFTFNTDA
2CK0-H2	WVARIRSKGFNFATYY	RIRSKGFNFATYYADSVRD	RSKGFNFA	IRSKGFNFAT
2CK0-H3	RGRDGEAMDY	GRDGEAMDY	GRDGEAMDY	VRGRDGEAMDY
2CMR-L1	EGIYHWLA	RASEGIYHWLA	RASEGIYHWLA	EGIYHW
2CMR-L2	LLIYKASSLAS	KASSLAS	KASSLAS	KAS
2CMR-L3	QQYSNYPL	QQYSNYPLT	QQYSNYPLT	QQYSNYPLT
2CMR-H1	DTFSSYAIS	SYAIS	GDTFSSY	GDTFSSYA
2CMR-H2	WMGGIIPIFGTANY	GIIPIFGTANYAQAFQG	IPIFGT	IIPIFGTA
2CMR-H3	RDNPTLLGSDY	DNPTLLGSDY	DNPTLLGSDY	ARDNPTLLGSDY
2DD8-L1	NIGSKSVH	GGNNIGSKSVH	GGNNIGSKSVH	NIGSKS
2DD8-L2	LVVYDDSDRPS	DDSDRPS	DDSDRPS	DDS
2DD8-L3	QVWDSSSDY	QVWDSSSDYV	QVWDSSSDYV	QVWDSSSDYV
2DD8-H1	GTFSSYTIS	SYTIS	GGTFSSY	GGTFSSYT
2DD8-H2	WMGGITPILGIANY	GITPILGIANYAQKFQG	TPILGI	ITPILGIA
2DD8-H3	RDTVMGGMDV	DTVMGGMDV	DTVMGGMDV	ARDTVMGGMDV
2DTG-L1	QSLLYSSNQKNFLA	KSSQSLLYSSNQKNFLA	KSSQSLLYSSNQKNFLA	QSLLYSSNQKNF
2DTG-L2	LLIYWASTRES	WASTRES	WASTRES	WAS
2DTG-L3	QQYFRYR	QQYFRYRT	QQYFRYRT	QQYFRYRT
2DTG-H1	FPLTAYGVN	AYGVN	GFPLTAY	GFPLTAYG
2DTG-H2	WLGMIWGDGNTDY	MIWGDGNTDYNSALKS	WGDGN	IWGDGNT
2DTG-H3	RDPYGSKPMDY	DPYGSKPMDY	DPYGSKPMDY	ARDPYGSKPMDY
2EH8-L1	QSLLYSNGKTYLN	KSSQSLLYSNGKTYLN	KSSQSLLYSNGKTYLN	QSLLYSNGKTY
2EH8-L2	RLIYLVSKLDS	LVSKLDS	LVSKLDS	LVS
2EH8-L3	VQGTHFPQ	VQGTHFPQT	VQGTHFPQT	VQGTHFPQT
2EH8-H1	YAFSSSWMN	SSWMN	GYAFSSS	GYAFSSSW
2EH8-H2	WIGRIYPGDGDTNY	RIYPGDGDTNYAQKFQG	YPGDGD	IYPGDGDT
2EH8-H3	REYDEAY	EYDEAY	EYDEAY	AREYDEAY
2F58-L1	QGVDFDGASFMN	KASQGVDFDGASFMN	KASQGVDFDGASFMN	QGVDFDGASF
2F58-L2	LLIFAASTLES	AASTLES	AASTLES	AAS
2F58-L3	QQSHEDPL	QQSHEDPLT	QQSHEDPLT	QQSHEDPLT
2F58-H1	YSITSGYSWH	SGYSWH	GYSITSGY	GYSITSGY
2F58-H2	WMGYIHYSAGTNY	YIHYSAGTNYNPSLKS	HYSAG	IHYSAGT
2F58-H3	REEAMPYGNQAYYYAMDC	EEAMPYGNQAYYYAMDC	EEAMPYGNQAYYYAMDC	AREEAMPYGNQAYYYAMDC
2FJG-L1	QDVSTAVA	RASQDVSTAVA	RASQDVSTAVA	QDVSTA
2FJG-L2	LLIYSASFLYS	SASFLYS	SASFLYS	SAS
2FJG-L3	QQSYTTPP	QQSYTTPPT	QQSYTTPPT	QQSYTTPPT
2FJG-H1	FTISDYWIH	DYWIH	GFTISDY	GFTISDYW

2FJG-H2	WVAG**ITPAGGYT**YY	G**ITPAGGYT**YYADSVKG	**TPAGGY**	**ITPAGGYT**
2FJG-H3	RFV**F**FLP**Y**AMDY	FV**F**FLP**Y**AMDY	FV**F**FLP**Y**AMDY	ARFV**F**FLP**Y**AMDY
2FJH-L1	QVI**RRS**LA	RASQVI**RRS**LA	RASQVI**RRS**LA	QVI**RRS**
2FJH-L2	LLI**Y**AA**SNL**AS	AA**SNL**AS	AA**SNL**AS	AA**S**
2FJH-L3	QQ**SNTSPL**	QQ**SNTSPL**T	QQ**SNTSPL**T	QQ**SNTSPL**T
2FJH-H1	FTINAS**W**I**H**	AS**W**I**H**	GFTINAS	GFTINAS**W**
2FJH-H2	**W**VG**A**I**Y**PY**S**G**Y**T**N**Y	**A**I**Y**PY**S**G**Y**T**N**YADSVKG	**Y**PY**S**G**Y**	I**Y**PY**S**G**Y**T
2FJH-H3	R**WGHSTSPW**AMDY	**WGHSTSPW**AMDY	**WGHSTSPW**AMDY	AR**WGHSTSPW**AMDY
2FX7-L1	QSV**GN**N**K**LA	RASQSV**GN**N**K**LA	RASQSV**GN**N**K**LA	QSV**GN**N**K**
2FX7-L2	LLIYGASSRPS	GASSRPS	GASSRPS	GAS
2FX7-L3	**QQYGQSLS**	**QQYGQSLS**T	**QQYGQSLS**T	**QQYGQSLS**T
2FX7-H1	G**S**F**STYALS**	**TYALS**	GG**S**F**STY**	GG**S**F**STYA**
2FX7-H2	**W**MGG**VI**P**LL**T**ITN**Y	**GVI**P**LL**T**ITN**YAPRFQG	**I**P**LL**T**I**	**VI**P**LL**T**IT**
2FX7-H3	R**E**GTTGWGW**LGKPIGAF**AH	**E**GTTGWGW**LGKPIGAF**AH	**E**GTTGWGW**LGKPIGAF**AH	AR**E**GTTGWGW**LGKPIGAF**AH
2G5B-L1	QS**LFN**S**KT**RRN**Y**LA	KSSQS**LFN**S**KT**RRN**Y**LA	KSSQS**LFN**S**KT**RRN**Y**LA	QS**LFN**S**KT**RRN**Y**
2G5B-L2	LLIYWASTRES	WASTRES	WASTRES	WAS
2G5B-L3	KQ**SYNLR**	KQ**SYNLR**T	KQ**SYNLR**T	KQ**SYNLR**T
2G5B-H1	FTFI**DNY**MS	**DNY**MS	GFTFI**DN**	GFTFI**DNY**
2G5B-H2	WLG**F**I**RN**K**VN**GYTT**E**Y	**F**I**RN**K**VN**GYTT**E**YGPSVKG	**RN**K**VN**GYT	I**RN**K**VN**GYTT
2G5B-H3	RDN**GS**D**Y**R**W**YFDV	DN**GS**D**Y**R**W**YFDV	DN**GS**D**Y**R**W**YFDV	VRDN**GS**D**Y**R**W**YFDV
2GSI-L1	KSVR**T**SGYS**Y**MD	GASKSVR**T**SGYS**Y**MD	GASKSVR**T**SGYS**Y**MD	KSVR**T**SGYS**Y**
2GSI-L2	RLIYLVSNLES	LVSNLES	LVSNLES	LVS
2GSI-L3	SH**IREL**P**R**	SH**IREL**P**R**S	SH**IREL**P**R**S	SH**IREL**P**R**S
2GSI-H1	N**IKDYY**M**Y**W	**DYY**M**Y**	GFN**IKDY**	GFN**IKDYY**
2GSI-H2	IG**W**I**DPE**NG**D**T**E**YV	**W**I**DPE**NG**D**T**E**YVPTFQG	**DPE**NG**D**	I**DPE**NG**D**T
2GSI-H3	**GVITM**MGYQA	**GVITM**AMDY	**GVITM**AMDY	NA**GVITM**AMDY
2H1P-L1	**QSLVHSN**GNT**Y**LH	RSS**QSLVHSN**GNT**Y**LH	RSS**QSLVHSN**GNT**Y**LH	**QSLVHSN**GNT**Y**
2H1P-L2	LLIYKVSNRFS	KVSNRFS	KVSNRFS	KVS
2H1P-L3	S**QSTHVPW**	S**QSTHVPW**T	S**QSTHVPW**T	S**QSTHVPW**T
2H1P-H1	FTFS**S**Y**F**LS	**S**Y**F**LS	GFTFS**S**Y	GFTFS**S**Y**F**
2H1P-H2	LVA**TINS**NGD**KTY**H	**TINS**NGD**KTY**HPDTMKG	**NS**NGD**K**	**INS**NGD**KT**
2H1P-H3	R**R**D**SSA**S**L**YFDY	**R**D**SSA**S**L**YFDY	**R**D**SSA**S**L**YFDY	AR**R**D**SSA**S**L**YFDY
2H9G-L1	QDVSTAVA	RASQDVSTAVA	RASQDVSTAVA	QDVSTA
2H9G-L2	LLI**YS**AS**FLYS**	**S**AS**FLYS**	**S**AS**FLYS**	**S**AS
2H9G-L3	QQSYTTPP	QQSYTTPPT	QQSYTTPPT	QQSYTTPPT
2H9G-H1	**FS**I**GKSG**IH	**KSG**IH	G**FS**I**GKS**	G**FS**I**GKSG**
2H9G-H2	WVAVIYP**H**DGNTAY	VIYP**H**DGNTAYADSVKG	YP**H**DGN	IYP**H**DGNT
2H9G-H3	**RRLALVR**M**W**M**DY**	**RLALVR**M**W**M**DY**	**RLALVR**M**W**M**DY**	A**RRLALVR**M**W**M**DY**
2HFG-L1	QDVSTAVA	RASQDVSTAVA	RASQDVSTAVA	QDVSTA
2HFG-L2	LLI**YS**AS**FL**YS	**S**AS**FL**YS	**S**AS**FL**YS	**S**AS
2HFG-L3	Q**QSQISPP**	Q**QSQISPP**T	Q**QSQISPP**T	Q**QSQISPP**T
2HFG-H1	FTIS**SSS**I**H**	**SSS**I**H**	GFTIS**SS**	GFTIS**SSS**
2HFG-H2	WVA**W**V**L**P**SV**G**F**T**D**Y	**W**V**L**P**SV**G**F**T**D**YADSVKG	**L**P**SV**G**F**	V**L**P**SV**G**F**T
2HFG-H3	R**RVCYNRLGVCA**GGMDY	**RVCYNRLGVCA**GGMDY	**RVCYNRLGVCA**GGMDY	AR**RVCYNRLGVCA**GGMDY
2HH0-L1	QDIG**NN**L**N**	RASQDIG**NN**L**N**	RASQDIG**NN**L**N**	QDIG**NN**
2HH0-L2	**R**LIYATSSLDS	ATSSLDS	ATSSLDS	ATS
2HH0-L3	**L**Q**HDTF**P**L**	**L**Q**HDTF**P**L**T	**L**Q**HDTF**P**L**T	**L**Q**HDTF**P**L**T
2HH0-H1	**N**I**EDSY**I**H**W	**DSY**I**H**	GF**N**I**EDS**	GF**N**I**EDSY**
2HH0-H2	IG**R**I**DPE**DGETKYA	**R**I**DPE**DGETKYAPKFQG	**DPE**DGE	I**DPE**DGET

2HH0-H3	**GAYYI**	**GAYYIK**EDF	**GAYYIK**EDF	**GRGAYYIK**EDF
2HKF-L1	QSLV**H**S**N**G**N**T**Y**L**H**	RSSQSLV**H**S**N**G**N**T**Y**L**H**	RSSQSLV**H**S**N**G**N**T**Y**L**H**	QSLV**H**S**N**G**N**T**Y**
2HKF-L2	LLI**YK**VSNRFS	**K**VSNRFS	**K**VSNRFS	**K**VS
2HKF-L3	SQ**ST**HVP**F**	SQ**ST**HVP**F**T	SQ**ST**HVP**F**T	SQ**ST**HVP**F**T
2HKF-H1	**STL**N**NYA**M**N**	**NYA**M**N**	**GSTL**N**NY**	**GSTL**N**NYA**
2HKF-H2	WVA**RIRS**KS**N**NYAT**Y**Y	**RIRS**KS**N**NYAT**Y**YADSVKD	**RS**KS**N**NYA	**IRS**KS**N**NYAT
2HKF-H3	**TYGNH**PFA**Y**	**YGNH**PFA**Y**	**YGNH**PFA**Y**	V**TYGNH**PFA**Y**
2HRP-L1	ESVD**YY**G**K**S**F**MN	RASESVD**YY**G**K**S**F**MN	RASESVD**YY**G**K**S**F**MN	ESVD**YY**G**K**S**F**
2HRP-L2	LLIYAASNQGS	AASNQGS	AASNQGS	AAS
2HRP-L3	QQ**SKEV**P**W**	QQ**SKEV**P**W**T	QQ**SKEV**P**W**T	QQ**SKEV**P**W**T
2HRP-H1	FTFMRFGM**H**	RFGM**H**	GFTFMRF	GFTFMRFG
2HRP-H2	WVA**Y**ISSGSS**T**I**Y**Y	**Y**ISSGSS**T**I**Y**YADTVKG	SSGSS**T**	ISSGSS**T**I
2HRP-H3	R**S**GG**I**E**RYDGTYYV**MDY	**S**GG**I**E**RYDGTYYV**MDY	**S**GG**I**E**RYDGTYYV**MDY	AR**S**GG**I**E**RYDGTYYV**MDY
2I9L-L1	QTLLNSR**T**R**K**N**Y**LA	KSSQTLLNSR**T**R**K**N**Y**LA	KSSQTLLNSR**T**R**K**N**Y**LA	QTLLNSR**T**R**K**N**Y**
2I9L-L2	LLIYWASTRES	WASTRES	WASTRES	WAS
2I9L-L3	KQ**SY**N**LW**	KQ**SY**N**LW**T	KQ**SY**N**LW**T	KQ**SY**N**LW**T
2I9L-H1	Y**T**F**TRYW**MH	**RYW**MH	GY**T**F**TRY**	GY**T**F**TRYW**
2I9L-H2	WIG**Y**I**NPSTGYTE**Y	**Y**I**NPSTGYTE**YNQKFKD	**NPSTGY**	I**NPSTGYT**
2I9L-H3	RTT**VDGY**DFAY	TT**VDGY**DFAY	TT**VDGY**DFAY	ARTT**VDGY**DFAY
2IFF-L1	SS**VNY**M**Y**	SASSS**VNY**M**Y**	SASSS**VNY**M**Y**	SS**VNY**
2IFF-L2	RWIY**D**TSKLAS	**D**TSKLAS	**D**TSKLAS	**D**TS
2IFF-L3	Q**QWGRNP**	Q**QWGRNP**T	Q**QWGRNP**T	Q**QWGRNP**T
2IFF-H1	YTF**SD**Y**W**I**E**	**D**Y**W**I**E**	GYTF**SD**Y	GYTF**SD**Y**W**
2IFF-H2	**W**IG**E**I**L**PG**SGSTNY**	**E**I**L**PG**SGSTNY**HERFKG	**L**PG**SGS**	I**L**PG**SGST**
2IFF-H3	H**GNYD**FDG	**GNYD**FDG	**GNYD**FDG	LH**GNYD**FDG
2IGF-L1	QTIL**L**S**D**G**D**T**Y**LE	RSNQTIL**L**S**D**G**D**T**Y**LE	RSNQTIL**L**S**D**G**D**T**Y**LE	QTIL**L**S**D**G**D**T**Y**
2IGF-L2	LLIY**K**VSNRFS	**K**VSNRFS	**K**VSNRFS	**K**VS
2IGF-L3	**FQGSHVPP**	**FQGSHVPP**T	**FQGSHVPP**T	**FQGSHVPP**T
2IGF-H1	FTF**SRCAM**S	**RCAM**S	GFTF**SRC**	GFTF**SRCA**
2IGF-H2	**W**VA**GISSGGSY**T**F**Y	**GISSGGSY**T**F**YPDTVKG	**SSGGSY**	**ISSGGSY**T
2IGF-H3	R**YSSDPFYF**DY	**YSSDPFYF**DY	**YSSDPFYF**DY	TR**YSSDPFYF**DY
2IPU-L1	QSI**VHSN**G**N**T**Y**LE	RSSQSI**VHSN**G**N**T**Y**LE	RSSQSI**VHSN**G**N**T**Y**LE	QSI**VHSN**G**N**T**Y**
2IPU-L2	LLIYKVSNRFS	KVSNRFS	KVSNRFS	KVS
2IPU-L3	FQ**GSHVPL**	FQ**GSHVPL**T	FQ**GSHVPL**T	FQ**GSHVPL**T
2IPU-H1	FSLSTS**G**MGVG	TS**G**MGVG	GFSLSTS**G**M	GFSLSTS**G**
2IPU-H2	**W**LA**H**I**WWD**D**D**R**S**Y	**H**I**WWD**D**D**R**S**YNPSLKS	**WWD**D**D**	I**WWD**D**D**R
2IPU-H3	R**RAHTT**VLG**D**W**F**AY	**RAHTT**VLG**D**W**F**AY	**RAHTT**VLG**D**W**F**AY	VR**RAHTT**VLG**D**W**F**AY
2J4W-L1	SSVS**Y**MH	RARSSVS**Y**MH	RARSSVS**Y**MH	SSVS**Y**
2J4W-L2	PWIHATSNLAS	ATSNLAS	ATSNLAS	ATS
2J4W-L3	QQ**WSSH**PP	QQ**WSSH**PPT	QQ**WSSH**PPT	QQ**WSSH**PPT
2J4W-H1	FIF**SDYYMY**	**DYYMY**	GFIF**SDY**	GFIF**SDYY**
2J4W-H2	WVA**T**I**SDGNSY**T**Y**Y	**T**I**SDGNSY**T**Y**YVDSVKG	**SDGNSY**	I**SDGNSY**T
2J4W-H3	R**D**GP**T**DS**SGYG**GFGY	**D**GP**T**DS**SGYG**GFGY	**D**GP**T**DS**SGYG**GFGY	AR**D**GP**T**DS**SGYG**GFGY
2J5L-L1	**SSV**S**Y**MH	RAR**SSV**S**Y**MH	RAR**SSV**S**Y**MH	**SSV**S**Y**
2J5L-L2	PWIHATSNLAS	ATSNLAS	ATSNLAS	ATS
2J5L-L3	QQ**WSSH**PP	QQ**WSSH**PPT	QQ**WSSH**PPT	QQ**WSSH**PPT
2J5L-H1	FIFS**DYY**M**Y**	**DYY**M**Y**	GFIFS**DY**	GFIFS**DYY**
2J5L-H2	WVA**T**I**SDGN**S**Y**T**Y**Y	**T**I**SDGN**S**Y**T**Y**YVDSVKG	**SDGN**S**Y**	I**SDGN**S**Y**T
2J5L-H3	R**D**GP**T**DS**SGYGG**FGY	**D**GP**T**DS**SGYGG**FGY	**D**GP**T**DS**SGYGG**FGY	AR**D**GP**T**DS**SGYGG**FGY
2J6E-L1	SSNIG**SNY**V**Y**	SGSSSNIG**SNY**V**Y**	SGSSSNIG**SNY**V**Y**	SSNIG**SNY**

2J6E-L2	LLIY**R**NN**Q**RPS	**R**NN**Q**RPS	**R**NN**Q**RPS	**R**NN
2J6E-L3	AT**W**D**D**SL**S**AV	AT**W**D**D**SL**S**AVI	AT**W**D**D**SL**S**AVI	AT**W**D**D**SL**S**AVI
2J6E-H1	GSISRGSH**Y**WG	RGSH**Y**WG	GGSISRGSH	GGSISRGS
2J6E-H2	WIGSI**Y**YSGNT**Y**F	SI**Y**YSGNT**Y**FNPSLKS	**Y**YSGN	I**Y**YSGNT
2J6E-H3	RLGP**DDYTLDG**MDV	LGP**DDYTLDG**MDV	LGP**DDYTLDG**MDV	ARLGP**DDYTLDG**MDV
2J88-L1	N**IYSY**LTW	RASEN**IYSY**L**T**	RASEN**IYSY**L**T**	EN**IYSY**
2J88-L2	L**VYN**AKTLAEG	**N**AKTLAE	**N**AKTLAE	**N**AK
2J88-L3	H**HYGTR**T	QH**HYGTR**T	QH**HYGTR**T	QH**HYGTR**T
2J88-H1	FSLST**SGMG**VS	T**SGMG**VS	GFSLST**SGM**	GFSLST**SG**
2J88-H2	WLA**H**I**YWD**D**D**K**R**Y	**H**I**YWD**D**D**K**R**YNPSLKS	**YWD**D**D**	I**YWD**D**D**K
2J88-H3	L**YYGSVD**Y	**YYGSVD**Y	**YYGSVD**Y	TL**YYGSVD**Y
2JEL-L1	QSIV**HGN**G**N**T**Y**LE	RSSQSIV**HGN**G**N**T**Y**LE	RSSQSIV**HGN**G**N**T**Y**LE	QSIV**HGN**G**N**T**Y**
2JEL-L2	LLIY**K**ISNRFS	**K**ISNRFS	**K**ISNRFS	**K**IS
2JEL-L3	FQ**GSHV**P**Y**	FQ**GSHV**P**Y**T	FQ**GSHV**P**Y**T	FQ**GSHV**P**Y**T
2JEL-H1	YT**FTTYAMH**	**TYAMH**	GYT**FTTY**	GYT**FTTYA**
2JEL-H2	WIG**LISTYS**G**Y**T**N**Y	**LISTYS**G**Y**T**N**YNQKFKG	**STYS**G**Y**	**ISTYS**G**Y**T
2JEL-H3	R**VMGEQY**FDV	**VMGEQY**FDV	**VMGEQY**FDV	AR**VMGEQY**FDV
2JIX-L1	QGIRNDLG	RASQGIRNDLG	RASQGIRNDLG	QGIRND
2JIX-L2	RLIYAA**SSLQS**	AA**SSLQS**	AA**SSLQS**	AA**S**
2JIX-L3	LQHNTYPP	LQHNTYPPT	LQHNTYPPT	LQHNTYPPT
2JIX-H1	ASISSYYWS	SYYWS	GASISSY	GASISSYY
2JIX-H2	WIGYIGGEGSTNY	YIGGEGSTNYNPSLKS	GGEGS	IGGEGST
2JIX-H3	RERLGIGDY	ERLGIGDY	ERLGIGDY	ARERLGIGDY
2NR6-L1	QIV**STA**VA	KASQIV**STA**VA	KASQIV**STA**VA	QIV**STA**
2NR6-L2	LLIY**S**A**SY**RYT	**S**A**SY**RYT	**S**A**SY**RYT	**S**A**S**
2NR6-L3	**QQHYNSPQ**	**QQHYNSPQ**T	**QQHYNSPQ**T	**QQHYNSPQ**T
2NR6-H1	FN**IKDTY**I**H**	**DTY**I**H**	GFN**IKDT**	GFN**IKDTY**
2NR6-H2	**W**IG**RIDPAN**GNT**R**Y	**RIDPAN**GNT**R**YGPKFLG	**DPAN**GN	**IDPAN**GNT
2NR6-H3	R**WVRQ**MDY	**WVRQ**MDY	**WVRQ**MDY	AR**WVRQ**MDY
2NY7-L1	HSIRSRRVA	RSSHSIRSRRVA	RSSHSIRSRRVA	HSIRSRR
2NY7-L2	LVIHGVSNRAS	GVSNRAS	GVSNRAS	GVS
2NY7-L3	QVYGASSY	QVYGASSYT	QVYGASSYT	QVYGASSYT
2NY7-H1	Y**R**F**SNFV**IH	**NFV**IH	GY**R**F**SNF**	GY**R**F**SNFV**
2NY7-H2	WMG**W**I**NPYN**G**NKE**F	**W**I**NPYN**G**NKE**FSAKFQD	**NPYN**G**N**	I**NPYN**G**NK**
2NY7-H3	R**VGPYSWDD**S**PQ**D**NY**YMDV	**VGPYSWDD**S**PQ**D**NY**YMDV	**VGPYSWDD**S**PQ**D**NY**YMDV	AR**VGPYSWDD**S**PQ**D**NY**YMDV
2NZ9-L1	**ES**V**DSYGHSF**MQ	RAS**ES**V**DSYGHSF**MQ	RAS**ES**V**DSYGHSF**MQ	**ES**V**DSYGHSF**
2NZ9-L2	LLIYRASNLEP	RASNLEP	RASNLEP	RAS
2NZ9-L3	QQ**GNEV**P**F**	QQ**GNEV**P**F**T	QQ**GNEV**P**F**T	QQ**GNEV**P**F**T
2NZ9-H1	FTF**SDHY**M**Y**	**DHY**M**Y**	GFTF**SDH**	GFTF**SDHY**
2NZ9-H2	WVA**T**I**SDGGSYTYY**	**T**I**SDGGSYTYY**SDSVEG	**SDGGSY**	I**SDGGSYT**
2NZ9-H3	R**Y**R**YD**DAMDY	**Y**R**YD**DAMDY	**Y**R**YD**DAMDY	SR**Y**R**YD**DAMDY
2OQJ-L1	**QSIE**T**W**LA	RAS**QSIE**T**W**LA	RAS**QSIE**T**W**LA	**QSIE**T**W**
2OQJ-L2	LLIYKASTLKT	KASTLKT	KASTLKT	KAS
2OQJ-L3	Q**HYAGYS**A	Q**HYAGYS**AT	Q**HYAGYS**AT	Q**HYAGYS**AT
2OQJ-H1	FRISAHTMN	AHTMN	NFRISAH	NFRISAHT
2OQJ-H2	WVASISTSS**TY**R**D**Y	SISTSS**TY**R**D**YADAVKG	STSS**TY**	ISTSS**TY**R
2OQJ-H3	RKGSDRLS**DN**DPFDA	KGSDRLS**DN**DPFDA	KGSDRLS**DN**DPFDA	ARKGSDRLS**DN**DPFDA
2OR9-L1	ESVDNYG**F**SFMN	RASESVDNYG**F**SFMN	RASESVDNYG**F**SFMN	ESVDNYG**F**SF
2OR9-L2	**L**LIY**A**I**SN**RGS	**A**I**SN**RGS	**A**I**SN**RGS	**A**I**S**
2OR9-L3	QQTKEVPW	QQTKEVPWT	QQTKEVPWT	QQTKEVPWT

2OR9-H1	FTF**SHYG**MS	**HYG**MS	GFTF**SHY**	GFTF**SHYG**
2OR9-H2	WVAT**IGSR**GTYTHY	T**IGSR**GTYTHYPDSVKG	**GSR**GTY	**IGSR**GTYT
2OR9-H3	R**RSEFYYYG**N**TYYY**S**A**M**D** Y	**RSEFYYYG**N**TYYY**S**A**M**D**Y	**RSEFYYYG**N**TYYY**S**A**M**D** Y	AR**RSEFYYYG**N**TYYY**S**A** M**D**Y
2OSL-L1	SSVSYIH	RASSSVSYIH	RASSSVSYIH	SSVSY
2OSL-L2	PWIYATSNLAS	ATSNLAS	ATSNLAS	ATS
2OSL-L3	QQ**W**T**SNPP**	QQ**W**T**SNPP**T	QQ**W**T**SNPP**T	QQ**W**T**SNPP**T
2OSL-H1	YTFTSY**NMH**	SY**NMH**	GYTFTSY	GYTFTSY**N**
2OSL-H2	**W**I**GAIY**PG**N**G**DTSY**	**AIY**PG**N**G**DTSY**NQKFKG	**Y**PG**N**G**D**	**IY**PG**N**G**DT**
2OSL-H3	R**ST**Y**Y**GGD**W**YFNV	**ST**Y**Y**GGD**W**YFNV	**ST**Y**Y**GGD**W**YFNV	AR**ST**Y**Y**GGD**W**YFNV
2OTU-L1	**SQHSTYTIE**	TL**SSQHSTYTIE**	TL**SSQHSTYTIE**	**SQHSTYT**
2OTU-L2	YVM**E**LKKDGSHSTGD	LKKDGSHSTGD	LKKDGSHSTGD	LKK
2OTU-L3	G**VGDTIK**EQ**F**VY	G**VGDTIK**EQ**F**VYV	G**VGDTIK**EQ**F**VYV	G**VGDTIK**EQ**F**VYV
2OTU-H1	FTF**RDYYMY**	**DYYMY**	GFTF**RDY**	GFTF**RDYY**
2OTU-H2	WVA**F**IS**N**GGGST**Y**Y	**F**IS**N**GGGST**Y**YPDTVKG	S**N**GGGS	IS**N**GGGST
2OTU-H3	**RGRGYVWF**AY	**GRGYVWF**AY	**GRGYVWF**AY	A**RGRGYVWF**AY
2OZ4-L1	QS**I**G**TS**I**H**	RASQS**I**G**TS**I**H**	RASQS**I**G**TS**I**H**	QS**I**G**TS**
2OZ4-L2	**L**LI**EY**ASES**IS**	**Y**ASES**IS**	**Y**ASES**IS**	**Y**AS
2OZ4-L3	**QQSNVW**P**F**	**QQSNVW**P**F**T	**QQSNVW**P**F**T	**QQSNVW**P**F**T
2OZ4-H1	Y**TFSEFTMH**	**EFTMH**	**G**Y**TFSEF**	**G**Y**TFSEFT**
2OZ4-H2	WIG**GINTINGGSS**Y	**GINTINGGSS**YKQSF**K**D	**NTINGG**	**INTINGGS**
2OZ4-H3	**TKGFAY**	**KGFAY**	**KGFAY**	A**TKGFAY**
2Q8A-L1	QSVSN**DVV**	KASQSVSN**DVV**	KASQSVSN**DVV**	QSVSN**D**
2Q8A-L2	**L**LI**YY**AS**IRYT**	**Y**AS**IRYT**	**Y**AS**IRYT**	**Y**AS
2Q8A-L3	QQ**GF**SSP**R**	QQ**GF**SSP**R**T	QQ**GF**SSP**R**T	QQ**GF**SSP**R**T
2Q8A-H1	**FKIKDTS**MH	**DTS**MH	**GFKIKDT**	**GFKIKDTS**
2Q8A-H2	WIG**R**I**D**P**A**NDNS**E**Y	**R**I**D**P**A**NDNS**E**YDPKFQG	**D**P**A**NDN	I**D**P**A**NDNS
2Q8A-H3	**LSHF**	**SHF**	**SHF**	T**LSHF**
2QAD-L1	QSISN**W**LA	RASQSISN**W**LA	RASQSISN**W**LA	QSISN**W**
2QAD-L2	LLMYKASSLKS	KASSLKS	KASSLKS	KAS
2QAD-L3	QQ**HDSS**P**Y**	QQ**HDSS**P**Y**T	QQ**HDSS**P**Y**T	QQ**HDSS**P**Y**T
2QAD-H1	GTFSNYAIN	NYAIN	GGTFSNY	GGTFSNYA
2QAD-H2	WMGGI**IPIF**N**IAH**Y	GI**IPIF**N**IAH**YAQRFQG	**IPIF**N**I**	I**IPIF**N**IA**
2QAD-H3	SPYPNDY**ND**Y**APEEGM**S**W** YFDL	PYPND**NDAPEEGM**S**W**YFDL	PYPND**NDAPEEGM**S**W**YF DL	ASPYPND**NDAPEEGM**S**W** YFDL
2QHR-L1	R**QHSTYTI**E	TLSR**QHSTYTI**E	TLSR**QHSTYTI**E	R**QHSTYT**
2QHR-L2	YVMELKKDGSHSTGD	LKKDGSHSTGD	LKKDGSHSTGD	LKK
2QHR-L3	G**VGDTIK**EQ**F**VY	G**VGDTIK**EQ**F**VYV	G**VGDTIK**EQ**F**VYV	G**VGDTIK**EQ**F**VYV
2QHR-H1	FAFS**SYD**MS	**SYD**MS	GFAFS**S**Y	GFAFS**SYD**
2QHR-H2	WVA**Y**I**SRGGGY**T**Y**Y	**Y**I**SRGGGY**T**Y**YPDTVKG	**SRGGGY**	I**SRGGGY**T
2QHR-H3	R**HIYYG**S**SHYYA**MDY	**HIYYG**S**SHYYA**MDY	**HIYYG**S**SHYYA**MDY	SR**HIYYG**S**SHYYA**MDY
2QQL-L1	Q**D**V**S**TAVA	RASQ**D**V**S**TAVA	RASQ**D**V**S**TAVA	Q**D**V**S**TA
2QQL-L2	LLIYSASFLYS	SASFLYS	SASFLYS	SAS
2QQL-L3	QQA**WAY**LP	QQA**WAY**LPT	QQA**WAY**LPT	QQA**WAY**LPT
2QQL-H1	FTISGYGIH	GYGIH	GFTISGY	GFTISGYG
2QQL-H2	WVA**Y**I**Y**PD**S**G**Y**T**D**Y	**Y**I**Y**PD**S**G**Y**T**D**YADSVKG	**Y**PD**S**G**Y**	I**Y**PD**S**G**Y**T
2QQL-H3	R**E**D**FRNRR**RL**WY**VMDY	**E**D**FRNRR**RL**WY**VMDY	**E**D**FRNRR**RL**WY**VMDY	AR**E**D**FRNRR**RL**WY**VMDY
2QQN-L1	Q**YFSSY**LA	RASQ**YFSSY**LA	RASQ**YFSSY**LA	Q**YFSSY**
2QQN-L2	LLIYGAS**S**RAS	GAS**S**RAS	GAS**S**RAS	GAS
2QQN-L3	QQY**L**GSPP	QQY**L**GSPPT	QQY**L**GSPPT	QQY**L**GSPPT
2QQN-H1	FTFSSYAMS	SYAMS	GFTFSSY	GFTFSSYA

2QQN-H2	WVSQISPAGGYTNY	QISPAGGYTNYADSVKG	SPAGGY	ISPAGGYT
2QQN-H3	RGELP**YYRMS**KVMDV	GELP**YYRMS**KVMDV	GELP**YYRMS**KVMDV	ARGELP**YYRMS**KVMDV
2QR0-L1	QSV**S**SAVA	RASQSV**S**SAVA	RASQSV**S**SAVA	QSV**S**SA
2QR0-L2	LLIYSASSLYS	SASSLYS	SASSLYS	SAS
2QR0-L3	QQ**YSY**YYY**P**F	QQ**YSY**YYY**P**FT	QQ**YSY**YYY**P**FT	QQ**YSY**YYY**P**FT
2QR0-H1	FNFS**SSS**I**H**	**SSS**I**H**	GFNFS**SS**	GFNFS**SSS**
2QR0-H2	WVA**Y**I**Y**PS**Y**S**Y**TSY	**Y**I**Y**PS**Y**S**Y**TSYADSVKG	**Y**PS**Y**S**Y**	I**Y**PS**Y**S**Y**T
2QR0-H3	R**YYGTG**AMDY	**YYGTG**AMDY	**YYGTG**AMDY	AR**YYGTG**AMDY
2QSC-L1	QDISN**Y**LN	QASQDISN**Y**LN	QASQDISN**Y**LN	QDISN**Y**
2QSC-L2	LLIYTASNLET	TASNLET	TASNLET	TAS
2QSC-L3	QQ**YDNLG**DL	QQ**YDNLG**DLS	QQ**YDNLG**DLS	QQ**YDNLG**DLS
2QSC-H1	FNFSSY**VMH**	SY**VMH**	GFNFSSY	GFNFSSY**V**
2QSC-H2	YLS**AISS**DGE**TTY**H	**AISS**DGE**TTY**HANSVKG	**SS**DGE**T**	**ISS**DGE**TT**
2QSC-H3	R**D**R**Y**YETS**GSN**AFDV	**D**R**Y**YETS**GSN**AFDV	**D**R**Y**YETS**GSN**AFDV	AR**D**R**Y**YETS**GSN**AFDV
2R0K-L1	QDVSTAVA	RASQDVSTAVA	RASQDVSTAVA	QDVSTA
2R0K-L2	LLIYSASFLYS	SASFLYS	SASFLYS	SAS
2R0K-L3	Q**QSYTTPP**	Q**QSYTTPP**T	Q**QSYTTPP**T	Q**QSYTTPP**T
2R0K-H1	**FTITGSA**I**H**	**GSA**I**H**	**GFTITGS**	**GFTITGSA**
2R0K-H2	**W**VA**IINPNGGYT**YY	**IINPNGGYT**YYADSVKG	**NPNGGY**	**INPNGGYT**
2R0K-H3	**RSARF**S**FD**Y	**SARF**S**FD**Y	**SARF**S**FD**Y	A**RSARF**S**FD**Y
2R0L-L1	Q**DVS**T**A**VA	RASQ**DVS**T**A**VA	RASQ**DVS**T**A**VA	Q**DVS**T**A**
2R0L-L2	LLIYSASFLYS	SASFLYS	SASFLYS	SAS
2R0L-L3	**QQSYTTPP**	**QQSYTTPP**T	**QQSYTTPP**T	**QQSYTTPP**T
2R0L-H1	FTI**SNS**GI**H**	**NS**GI**H**	GFTI**SNS**	GFTI**SNS**G
2R0L-H2	**W**VG**W**I**YPTGGATD**Y	**W**I**YPTGGATD**YADSVKG	**YPTGGA**	I**YPTGGAT**
2R0L-H3	**RFWWR**S**F**DY	**FWWR**S**F**DY	**FWWR**S**F**DY	A**RFWWR**S**F**DY
2R0W-L1	QSI**VHSN**G**N**T**Y**LE	RSSQSI**VHSN**G**N**T**Y**LE	RSSQSI**VHSN**G**N**T**Y**LE	QSI**VHSN**G**N**T**Y**
2R0W-L2	LLIYKVSNRFS	KVSNRFS	KVSNRFS	KVS
2R0W-L3	FQ**GSHVPL**	FQ**GSHVPL**T	FQ**GSHVPL**T	FQ**GSHVPL**T
2R0W-H1	FSLRTS**G**MGVG	TS**G**MGVG	GFSLRTS**G**M	GFSLRTS**G**
2R0W-H2	**W**LA**H**I**WWD**D**D**K**N**Y	**H**I**WWD**D**D**K**N**YNPSLKS	**WWD**D**D**	I**WWD**D**D**K
2R0W-H3	R**RAHNV**VLG**D**WFAY	**RAHNV**VLG**D**WFAY	**RAHNV**VLG**D**WFAY	VR**RAHNV**VLG**D**WFAY
2R29-L1	ESVV**RYGN**S**F**MH	RASESVV**RYGN**S**F**MH	RASESVV**RYGN**S**F**MH	ESVV**RYGN**S**F**
2R29-L2	**L**LI**YR**AS**SLES**	**R**AS**SLES**	**R**AS**SLES**	**R**AS
2R29-L3	QQTNVDPW	QQTNVDPWA	QQTNVDPWA	QQTNVDPWA
2R29-H1	**FN**I**KDTY**MH	**DTY**MH	**GFN**I**KDT**	**GFN**I**KDTY**
2R29-H2	WIGRI**DPAN**GYSKY	RI**DPAN**GYSKYDPKFQG	**DPAN**GY	I**DPAN**GYS
2R29-H3	**RDYEG**F**AY**	**DYEG**F**AY**	**DYEG**F**AY**	A**RDYEG**F**AY**
2R4S-L1	QDINS**Y**L**S**	KASQDINS**Y**L**S**	KASQDINS**Y**L**S**	QDINS**Y**
2R4S-L2	**T**LI**YR**ANR**LVD**	**R**ANR**LVD**	**R**ANR**LVD**	**R**AN
2R4S-L3	LQ**YDEF**P**Y**	LQ**YDEF**P**Y**T	LQ**YDEF**P**Y**T	LQ**YDEF**P**Y**T
2R4S-H1	YIFT**DYYIN**	**DYYIN**	GYIFT**DY**	GYIFT**DYY**
2R4S-H2	WIG**E**I**Y**PG**SGN**IDY	**E**I**Y**PG**SGN**IDYNERFKD	**Y**PG**SGN**	I**Y**PG**SGN**I
2R4S-H3	**RGFGY**	**GFGY**	**GFGY**	V**RGFGY**
2R56-L1	QGI**SSRL**A	RASQGI**SSRL**A	RASQGI**SSRL**A	QGI**SSR**
2R56-L2	LLI**YAASSL**QS	**AASSL**QS	**AASSL**QS	**AAS**
2R56-L3	QQ**YH**SYPW	QQ**YH**SYPWT	QQ**YH**SYPWT	QQ**YH**SYPWT
2R56-H1	FTF**RHH**GMT	**HH**GMT	GFTF**RHH**	GFTF**RHH**G
2R56-H2	WVASL**SGSGTK**THF	SL**SGSGTK**THFADSVKG	**SGSGTK**	L**SGSGTK**T
2R56-H3	KA**KRVGAT**G**Y**FDL	A**KRVGAT**G**Y**FDL	A**KRVGAT**G**Y**FDL	AKA**KRVGAT**G**Y**FDL

2UZI-L1	QSISSYLN	RASQSISSYLN	RASQSISSYLN	QSISSY
2UZI-L2	LLIYSASVLQS	SASVLQS	SASVLQS	SAS
2UZI-L3	QQSVMIPM	QQSVMIPMT	QQSVMIPMT	QQSVMIPMT
2UZI-H1	FTFSTFSMN	TFSMN	GFTFSTF	GFTFSTFS
2UZI-H2	WVSYISRTSKTIYY	YISRTSKTIYYADSVKG	SRTSKT	ISRTSKTI
2UZI-H3	RGRFFDY	GRFFDY	GRFFDY	ARGRFFDY
2V17-L1	KSIRKFLA	RASKSIRKFLA	RASKSIRKFLA	KSIRKF
2V17-L2	LLIYSGSTLQS	SGSTLQS	SGSTLQS	SGS
2V17-L3	QQHNDYPL	QQHNDYPLT	QQHNDYPLT	QQHNDYPLT
2V17-H1	FTFTDYYMS	DYYMS	GFTFTDY	GFTFTDYY
2V17-H2	WLALIRNKAKGYTTEY	LIRNKAKGYTTEYSASVKG	RNKAKGYT	IRNKAKGYTT
2V17-H3	RDNGAARATFAY	DNGAARATFAY	DNGAARATFAY	ARDNGAARATFAY
2VDK-L1	QGISSNIG	HASQGISSNIG	HASQGISSNIG	QGISSN
2VDK-L2	GLIYYGTNLVD	YGTNLVD	YGTNLVD	YGT
2VDK-L3	VQYAQLPY	VQYAQLPYT	VQYAQLPYT	VQYAQLPYT
2VDK-H1	FNIKDTYVH	DTYVH	GFNIKDT	GFNIKDTY
2VDK-H2	WIGRIDPANGYTKY	RIDPANGYTKYDPKFQG	DPANGY	IDPANGYT
2VDK-H3	RPLYDYYAMDY	PLYDYYAMDY	PLYDYYAMDY	VRPLYDYYAMDY
2VIS-L1	TGAVTTSNYAN	RSSTGAVTTSNYAN	RSSTGAVTTSNYAN	TGAVTTSNY
2VIS-L2	GLIGGTNNRAP	GTNNRAP	GTNNRAP	GTN
2VIS-L3	ALWYSNHW	ALWYSNHWV	ALWYSNHWV	ALWYSNHWV
2VIS-H1	FLLISNGVH	SNGVH	GFLLISN	GFLLISNG
2VIS-H2	WLGVIWAGGNTNY	VIWAGGNTNYNSALMS	WAGGN	IWAGGNT
2VIS-H3	RDFYDYDVFYYAMDY	DFYDYDVFYYAMDY	DFYDYDVFYYAMDY	ARDFYDYDVFYYAMDY
2VWE-L1	QDISNFLN	RASQDISNFLN	RASQDISNFLN	QDISNF
2VWE-L2	LLIYYTSTLHS	YTSTLHS	YTSTLHS	YTS
2VWE-L3	QQGKTLPP	QQGKTLPPT	QQGKTLPPT	QQGKTLPPT
2VWE-H1	YTFTGFWIH	GFWIH	GYTFTGF	GYTFTGFW
2VWE-H2	WIGHINPGNGGTNY	HINPGNGGTNYNEKFKR	NPGNGG	INPGNGGT
2VWE-H3	RSYSNYVRAMDY	SYSNYVRAMDY	SYSNYVRAMDY	ARSYSNYVRAMDY
2ZCK-L1	QSVDFDGDSYMN	KASQSVDFDGDSYMN	KASQSVDFDGDSYMN	QSVDFDGDSY
2ZCK-L2	LLIFAASNLAS	AASNLAS	AASNLAS	AAS
2ZCK-L3	QQSNEDPY	QQSNEDPYT	QQSNEDPYT	QQSNEDPYT
2ZCK-H1	YTFTTYYIN	TYYIN	GYTFTTY	GYTFTTYY
2ZCK-H2	WIGRIAPASGTTYS	RIAPASGTTYSSEMFKD	APASGT	IAPASGTT
2ZCK-H3	RADYGFNSGEAMDY	ADYGFNSGEAMDY	ADYGFNSGEAMDY	ARADYGFNSGEAMDY
3B2U-L1	QSVSSYLA	RASQSVSSYLA	RASQSVSSYLA	QSVSSY
3B2U-L2	LLIYDASNRAT	DASNRAT	DASNRAT	DAS
3B2U-L3	HQYGSTPL	HQYGSTPLT	HQYGSTPLT	HQYGSTPLT
3B2U-H1	GSISSGDYYWS	SGDYYWS	GGSISSGDY	GGSISSGD
3B2U-H2	WIGYIYYSGSTDY	YIYYSGSTDYNPSLKS	YYSGS	IYYSGST
3B2U-H3	RVSIFGVGTFDY	VSIFGVGTFDY	VSIFGVGTFDY	ARVSIFGVGTFDY
3BKJ-L1	QSIVHSNGHTYLE	RSSQSIVHSNGHTYLE	RSSQSIVHSNGHTYLE	QSIVHSNGHTY
3BKJ-L2	LLIYQVSTRFS	QVSTRFS	QVSTRFS	QVS
3BKJ-L3	FQASLVPL	FQASLVPLT	FQASLVPLT	FQASLVPLT
3BKJ-H1	FSIRTSKVGVS	TSKVGVS	GFSIRTSKV	GFSIRTSK
3BKJ-H2	WLAHIYWDDDKRY	HIYWDDDKRYNPSLES	YWDDD	IYWDDDK
3BKJ-H3	RRGFYGRKYEVNHFDY	RGFYGRKYEVNHFDY	RGFYGRKYEVNHFDY	ARRGFYGRKYEVNHFDY
3BKY-L1	SSVSYMH	RASSSVSYMH	RASSSVSYMH	SSVSY
3BKY-L2	PWIYAPSNLAS	APSNLAS	APSNLAS	APS

3BKY-L3	QQ**W**SF**N**P**P**	QQ**W**SF**N**P**P**T	QQ**W**SF**N**P**P**T	QQ**W**SF**N**P**P**T
3BKY-H1	YTFTSY**NMH**	SY**NMH**	GYTFTSY	GYTFTSY**N**
3BKY-H2	**W**IG**AIY**PG**N**G**DTSY**	**AIY**PG**N**G**DTSY**NQKFKG	**Y**PG**N**G**D**	**IY**PG**N**G**DT**
3BKY-H3	R**VVY**YSNSY**WY**FDV	**VVY**YSNSY**WY**FDV	**VVY**YSNSY**WY**FDV	AR**VVY**YSNSY**WY**FDV
3BN9-L1	Q**G**I**S**S**Y**LA	RASQ**G**I**S**S**Y**LA	RASQ**G**I**S**S**Y**LA	Q**G**I**S**S**Y**
3BN9-L2	LLIYAASSLQS	AASSLQS	AASSLQS	AAS
3BN9-L3	QQH**GNL**P**Y**	QQH**GNL**P**Y**T	QQH**GNL**P**Y**T	QQH**GNL**P**Y**T
3BN9-H1	**FTFSSYAM**S	**SYAM**S	G**FTFSSY**	G**FTFSSYA**
3BN9-H2	WVS**AISGSGGSTY**Y	**AISGSGGSTY**YADSVKG	**SGSGGS**	**ISGSGGST**
3BN9-H3	RPYL**TYPQRRGPQNV**SPFDN	PYL**TYPQRRGPQNV**SPFDN	PYL**TYPQRRGPQNV**SPFDN	ARPYL**TYPQRRGPQNV**SPFDN
3BT2-L1	SSV**SY**MH	SASSSV**SY**MH	SASSSV**SY**MH	SSV**SY**
3BT2-L2	PWIF**E**ISKLAS	**E**ISKLAS	**E**ISKLAS	**E**IS
3BT2-L3	QQ**WNYPF**	QQ**WNYPF**T	QQ**WNYPF**T	QQ**WNYPF**T
3BT2-H1	YSFTNF**Y**IH	NF**Y**IH	GYSFTNF	GYSFTNF**Y**
3BT2-H2	**W**IG**W**I**F**HGS**DNTE**Y	**W**I**F**HGS**DNTE**YNEKFKD	**F**HGS**DN**	I**F**HGS**DNT**
3BT2-H3	R**W**GP**HW**YFDV	**W**GP**HW**YFDV	**W**GP**HW**YFDV	AR**W**GP**HW**YFDV
3C09-L1	SSVT**Y**M**Y**	SASSSVT**Y**M**Y**	SASSSVT**Y**M**Y**	SSVT**Y**
3C09-L2	LLIY**D**TSNLAS	**D**TSNLAS	**D**TSNLAS	**D**TS
3C09-L3	QQ**W**S**SHIF**	QQ**W**S**SHIF**T	QQ**W**S**SHIF**T	QQ**W**S**SHIF**T
3C09-H1	YTF**TSHW**M**H**	**SHW**M**H**	GYTF**TSH**	GYTF**TSHW**
3C09-H2	WIG**E**F**N**P**SN**G**RTN**Y	**E**F**N**P**SN**G**RTN**YNEKFKS	**N**P**SN**G**R**	F**N**P**SN**G**RT**
3C09-H3	S**RDYDYAG**R**Y**FDY	**RDYDYAG**R**Y**FDY	**RDYDYAG**R**Y**FDY	AS**RDYDYAG**R**Y**FDY
3C2A-L1	SSNIGNN**Y**VL	SGSSSNIGNN**Y**VL	SGSSSNIGNN**Y**VL	SSNIGNN**Y**
3C2A-L2	LLIYGNNKRPS	GNNKRPS	GNNKRPS	GNN
3C2A-L3	AT**WD**SGL**SADW**	AT**WD**SGL**SADW**V	AT**WD**SGL**SADW**V	AT**WD**SGL**SADW**V
3C2A-H1	FTFSDV**W**LN	DV**W**LN	GFTFSDV	GFTFSDV**W**
3C2A-H2	WVG**R**I**K**SRT**D**GGTT**D**Y	**R**I**K**SRT**D**GGTT**D**YAASVKG	**K**SRT**D**GGT	I**K**SRT**D**GGTT
3C2A-H3	T**DG**FIMIRGV**SEDYYYYY**MDV	**DG**FIMIRGV**SEDYYYYY**MDV	**DG**FIMIRGV**SEDYYYYY**MDV	TT**DG**FIMIRGV**SEDYYYYY**MDV
3CK0-L1	QNLL**H**S**IT**RKN**Y**LA	KSSQNLL**H**S**IT**RKN**Y**LA	KSSQNLL**H**S**IT**RKN**Y**LA	QNLL**H**S**IT**RKN**Y**
3CK0-L2	LLIYWASTRGS	WASTRGS	WASTRGS	WAS
3CK0-L3	**K**Q**SYNLY**	**K**Q**SYNLY**T	**K**Q**SYNLY**T	**K**Q**SYNLY**T
3CK0-H1	FTFNTD**A**M**N**	TD**A**M**N**	GFTFNTD	GFTFNTD**A**
3CK0-H2	WVA**R**I**R**SKG**F**NFAT**Y**Y	**R**I**R**SKG**F**NFAT**Y**YADSVRD	**R**SKG**F**NFA	I**R**SKG**F**NFAT
3CK0-H3	R**GRDGEA**MDY	**GRDGEA**MDY	**GRDGEA**MDY	VR**GRDGEA**MDY
3CSY-L1	QSVL**Y**SS**N**N**K**S**Y**LA	KSSQSVL**Y**SS**N**N**K**S**Y**LA	KSSQSVL**Y**SS**N**N**K**S**Y**LA	QSVL**Y**SS**N**N**K**S**Y**
3CSY-L2	LLI**YW**AST**RES**	**W**AST**RES**	**W**AST**RES**	**W**AS
3CSY-L3	QQYYSAPL	QQYYSAPLT	QQYYSAPLT	QQYYSAPLT
3CSY-H1	**T**L**INY**RMN	**NY**RN	GF**T**L**INY**	GF**T**L**INY**R
3CSY-H2	WVSSI**SSSSSY**IHY	SI**SSSSSY**IHYADSVKG	**SSSSSY**	I**SSSSSY**I
3CSY-H3	VRE**GPRATGYS**M**A**DVF	E**GPRATGYSA**DVFDI	E**GPRATGYSA**DVFDI	VRE**GPRATGYSA**DVFDI
3CVH-L1	EDIYNRLA	KASEDIYNRLA	KASEDIYNRLA	EDIYNR
3CVH-L2	LLISGATSLET	GATSLET	GATSLET	GAT
3CVH-L3	QQY**WSTP**L	QQY**WSTP**LT	QQY**WSTP**LT	QQY**WSTP**LT
3CVH-H1	YTFTDY**N**MD	DY**N**MD	GYTFTDY	GYTFTDY**N**
3CVH-H2	WIG**D**INPNNGGT**I**Y	**D**INPNNGGT**I**YNQKFKG	NPNNGG	INPNNGGT
3CVH-H3	R**K**P**YYGNF**AWFAY	**K**P**YYGNF**AWFAY	**K**P**YYGNF**AWFAY	AR**K**P**YYGNF**AWFAY
3CXD-L1	ENIYS**FLA**	RASENIYS**FLA**	RASENIYS**FLA**	ENIYS**F**
3CXD-L2	**LLVYA**ATNLAD	**A**ATNLAD	**A**ATNLAD	**A**AT
3CXD-L3	**Q**H**FWGT**P**F**	**Q**H**FWGT**P**F**T	**Q**H**FWGT**P**F**T	**Q**H**FWGT**P**F**T

3CXD-H1	FTFN**IYA**MN	**IYA**MN	GFTFN**IY**	GFTFN**IYA**
3CXD-H2	WVA**RIRSQSN**NYTTYY	**RIRSQSN**NYTTYYADSVKD	**RSQSN**NYT	**IRSQSN**NYTT
3CXD-H3	R**QMGD**Y	**QMGD**Y	**QMGD**Y	VR**QMGD**Y
3D85-L1	QSISD**Y**L**H**	RASQSISD**Y**L**H**	RASQSISD**YLH**	QSISD**Y**
3D85-L2	LLIK**Y**ASQSIS	**Y**ASQSIS	**Y**ASQSIS	**Y**AS
3D85-L3	QN**GHSF**P**F**	QN**GHSF**P**F**T	QN**GHSF**P**F**T	QN**GHSF**P**F**T
3D85-H1	YTF**TSNV**M**H**	**SNV**M**H**	GYTF**TSN**	GYTF**TSNV**
3D85-H2	WIG**Y**I**N**P**YN**DG**TK**Y	**Y**I**N**P**YN**DG**TK**YNEKFKG	**N**P**YN**DG	I**N**P**YN**DG**T**
3D85-H3	**RNWDV**AY	**NWDV**AY	**NWDV**AY	A**RNWDV**AY
3DVG-L1	QSVSS**A**VA	RASQSVSS**A**VA	RASQSVSS**A**VA	QSVSS**A**
3DVG-L2	LLIYSARSLYS	SARSLYS	SARSLYS	SAR
3DVG-L3	QQ**Y**SSYS**S**L**F**	QQ**Y**SSYS**S**L**F**T	QQ**Y**SSYS**S**L**F**T	QQ**Y**SSYS**S**L**F**T
3DVG-H1	F**N**V**KTGL**I**H**	**TGL**I**H**	GF**N**V**KTG**	GF**N**V**KTGL**
3DVG-H2	WVA**Y**I**T**P**YY**GSTSY	**Y**I**T**P**YY**GSTSYADSVKG	**T**P**YY**GS	I**T**P**YY**GST
3DVG-H3	R**EYYR**W**YT**AIDY	**EYYR**W**YT**AIDY	**EYYR**W**YT**AIDY	AR**EYYR**W**YT**AIDY