

Gaac-L	PRCQWRAKAHQGTPIPLSLPLQFLYVHHTYEPSSPCLTFPNCSDMRAMQ
Onmy-L1	PRCQWGAAPYRGSPFPLALPLPFLYIHHTYEPDRPCHSFRQCSRSMRAMQ
Onmy-L3	PRCQWGAAPYRGTPTPLSLPLSFMYIHHTYQPGQPCLTFQQCSADMSSMQ
Onmy-L4	PRCQWGAAPYRGTPTPLSLPLSFMYIHHTYQPGQPCLTFQQCSADMRSMQ
Sasa-L	PRCQWGAAPYRGTPTPLSLPLSFMYIHHTYQPGQPCLTFQQCSADMRSMQ
Orla-L1	ARCTWGAAPYIGTPTMLSLPLTYLFIHHTASPSQPCLTFEQCSADMRSMQ
Orla-L2	ARCTWGAAPYIGTPTMLSLPLTYLFIHHTASPSQPCLTFEQCSADMRSMQ
Fuhe-L	PRCQWGAKANRDTPIPLSLPLQFLYVHHTYEPSSPCLSFSSCSRNMRSMQ
Xetr-S	SRSSWGGVPSKQCAK-LPRSVKYVIIHHTAG--ASCNSESACKAQARNIQ
Epbu	NREEWGARSPNETTT-LTPPQPLVIIHHTNW--NSCWTLEQCKSEVRKVQ
Hosa-S	PRNEWKALASECAQH-LSLPLRYVVVSHTAG--SSCNTPASCQQQARNVQ
Susc-S	SRREWGALASECSAN-LRRPVRYVVVSHTAG--STCDNPASCRRQVQNVQ
Cadr-S	PRREWALASECER-LTRPVRYVVVSHTAG--SHCDTPASCAQQAQNVQ
Bota-S	SRGKWGALASKCSQR-LRQPVRYVVVSHTAG--SVCNTPASCQRQAQNVQ
Rano-S	PRSEWKALPSECSKG-LKKPVRYVVISHTAG--SFCSSPDSCQQQARNVQ
Mumu-S	PRSEWRALPSECSSR-LGHPVRYVVISHTAG--SFCNSPDSCQQQARNVQ
Modo-S	PRSEWGALPSSCLKP-LNLPEYVVVSHTAG--QPCNSASSCEQQMRNIQ
Xela-S	TKAQWGGRAATCRTA-MTTPVPYVIIHHTAG--AHCSSQTSCISQAKSIQ
Dare-F1	SRRGWDVAVQPREMTQ-MESPAHTVIVHHTAL--RFAHPRESVTELAHIQ
Furu-F1	SRAQWGAAPPKRREN-LTGPAQKVVIHHTAL--PKCSGLSGCRDLLSIQ
Hosa-Ia-N	SRKEWGARPLACRAL-LTLPVAYIITDQLPG--MQCQQQSVCSQMLRGLQ
Rano-Ia-N	SRKVWGASSLTRVP-LSLVPYLIIEQVTR--MQCQDQTSCSQVLRVLH
Mumu-Ia-N	SRKEWGASSLTRVP-LSLVPYLIIEQVTR--MQCQDQITCSQVVRVLQ
Hosa-Ib-N	SRKAWGAEAVGCSIQ-LTTPVNVLVIIHHPG--LECHDQTVCSQRLRELQ
Rano-Ib-N	SRKGWGAEATGCSSK-LGRPVDVLVIHHPG--LECHNQTVCSSQLRELQ
Mumu-Ib-N	SREEWGAEAIGCSSK-LSRPVDVLVIHHPG--LECHNKTVCSSQLRELQ
Modo-I-N	SRSEWGKGPSGCNIQ-LRTPVPYLIHHILG--QECHEKATCRQVRKGLQ
Hosa-Ia-C	KRSAWEARETHCPK--MNLPAKYVIIHHTAG--TSCTVSTDCQTVVRNIQ
Rano-Ia-C	PRTAWEARETHCSQ--MNLPAKFVIIHHTAG--ESCNESADCLIRVRDTQ
Mumu-Ia-C	PRSAWEARETHCPQ--MNLPAKFVIIHHTAG--KSCNESADCLVRVRGTQ
Hosa-Ib-C	PRSVWGARETHCPR--MTLPAKYGIIHHTAG--RTCNISDECRLLVLDIQ
Rano-Ib-C	PRSAWGARESHCFK--MTLPAKYAIIHHTAG--RTCSQPDECRLLIQDLQ
Mumu-Ib-C	PRSVWGARDSHCSR--MTLPAKYAIIHHTAG--RTCSQPDECRLLVRLDQ
Modo-I-C	PRSSWGAQDTDCKSK--LPGPAKYVVIHHTGG--RNCNETEECQIALRYIQ
Dare-L2-N	TRSQWGAASYIGSPSYLSLPVRYLFIHHTYQPSKPCTTFEQCAAEMRSMQ
Dare-L2-C	TRSQWGAASYIGSPSYLSLPVRYLFIHHTYQPSKPCTTFEQCAAEMRSMQ
Susc-L	PRCRWGAAPYRGSPKPLKLPLGFLYIHHTYVPPARPCTDFALCAANMRSMQ
Patr-L	PRCRWGAAPYGRPKLLQLPLGFLYVHHTYVPPAPPCTDFTRCAANMRSMQ
Hosa-L	PRCRWGAAPYGRPKLLQLPLGFLYVHHTYVPPAPPCTDFTRCAANMRSMQ
Mumu-L	PRCRWGAAPYRGHPTPLRLPLGFLYVHHTYVPPAPPCTTFQSCAADMRSMQ
Modo-L	PRCRWGAAPYRGSPTMLNLPLGFLYVHHTYEPHQPCTSFQSCAANMKSMQ
Xetr-L	PRCMWGAKRYKGKPIFLGLPLSRVFIHHTYEPSQPCTSFQSCAANMRSMQ
Gaga-L	PRCMWGARPYRGTPRPLSPPLGSIYIHHTFVPSAPCRSFTACARDMRSMQ
Dare-L1	PRCIWGAAPPQVPLELLSPMSFLYIHHTAIPSKPCLNLQTCNQNMAMQ
Taru-L	PRCQWGAEAHRGTPMPLSLPLPFLYVHHTYEPSSPCLSFPCNSHDMRSMQ
Cyca-L	SRSQWGAAAFIGSPSYLSLPMPLYFIHHTYQPSKPCTTFDQCDSDMRSMQ
Onmy-L2	PRCQWGAAPYRGTPTPLSLPLSFMYIHHTYQPGQPCLTFQQCSADMRSMQ
Oidi	PAHWEARLPLGIDNYFHYDYGIVIGHHTHW-DR-CFDIVDCIKEVKKVQ

Gaac-L	RFHQEDRGWEDIG-----YSFVVGSDGYVYEGRGWKLGRH-TR
Onmy-L1	RFHQEDRGWADIG-----YSFVVGSDGYIYEGRGWYHLGTH-TR
Onmy-L3	RFHQDDRGWDDIG-----YSFVAGSDGYLYEGRGWHWQGAH-TK
Onmy-L4	RFHQDDRGWDDIG-----YSFVAGSDGYLYEGRGWNWQGAH-TK
Sasa-L	RFHQDDRGWDDIG-----YSFVAGSDGYLYEGRGWHWQGAH-TK

Orla-L1	RFHQQTNGWDDIG-----	YSFVAGSDGNIYEGRGWKWQGAH-TG
Orla-L2	RFHQQTNGWDDIG-----	YSFVAGSDGNIYEGRGWKWQGAH-AG
Fuhe-L	RFHQDDRGWNDIG-----	YSFVVGSDGYIYEGTGNHVGGRH-TR
Xetr-S	NFHMKSNGWCDTG-----	YNFLIGEDGQVYEGRGWETVGAH-AK
Epbu	DFHMDVRNWWDIG-----	YNFLVGEDGRAYEGRGWTEGAH-AE
Hosa-S	HYHMKTLGWCDVG-----	YNFLIGEDGLVYEGRGWNFTGAHSGH
Susc-S	HYHVRTLHWCDVG-----	YNFLIGEDGLVYEGRGWNTVGAHSGP
Cadr-S	SYHVRNLGWCDVG-----	YNFLIGEDGLVYEGRGWNIKGAHAGP
Bota-S	YYHVRERGWCDVG-----	YNFLIGEDGLVYEGRGWNTLGAHSGP
Rano-S	LYQMQLGWCDVA-----	YNFLIGEDGHVYEGRGWTIKGDHTGP
Mumu-S	HYHKNELGWCDVA-----	YNFLIGEDGHVYEGRGWNIKGDHTGP
Modo-S	FYHINTLGWCDIA-----	YNFLIGEDGLIYEGRGWSTLGAHTGP
Xela-S	NYHMNSNAWCDVG-----	YSFLVGEDGNVYEGRGWNSVGAH-AP
Dare-F1	RMHMQERGFDDIG-----	YNFLISGDGTVEYEGRGWGIVGAH-AK
Furu-F1	RSHMNDRNFFDDIG-----	YNFLVGFDGTVFEGRGWGVVGAH-AK
Hosa-Ia-N	SHSVYTIGWCDVA-----	YNFLVGDDGRVYEGVGWNIQGLH-TQ
Rano-Ia-N	SHYVHNKGWCDVA-----	FNFLVGNDGKVYEGVGWHVQGLH-TQ
Mumu-Ia-N	SQYVHNKGWCDIA-----	FNFLVGDDGKVYEGVGWYVQGLH-TQ
Hosa-Ib-N	AHHVHNNSGCDVA-----	YNFLVGDDGRVYEGVGWNIQGVH-TQ
Rano-Ib-N	AYHIRN-HWCDVA-----	YNFLVGDDGKVYEGVGWNVQGS-DQ
Mumu-Ib-N	AYHIHN-SWCDVA-----	YNFLVGDDGRVYEGVGWNVQGS-DQ
Modo-I-N	ELHIKINGWCDVA-----	YNFLIGEDGNVYEGGLWTLEGTH-TM
Hosa-Ia-C	SFHMDTRNFCDIG-----	YHFLVGQDGGVYEGVGWHIQGS-TY
Rano-Ia-C	SFHMDKQDFCDIA-----	YHFLVGQDGVVYEGVGWTEIGSH-TY
Mumu-Ia-C	SFHIDNQDFCDIA-----	YHFLVGQDGEVYEGVGWNIEGSH-TY
Hosa-Ib-C	SFYIDRLKSCDIG-----	YNFLVGQDGAIEYEGVGWNVQGS-TP
Rano-Ib-C	SFFMDRLNACDIG-----	YNFLVGQDGGVYEGVGWNNQGSK-TD
Mumu-Ib-C	SFFMNRNLNACDIG-----	YNFLVGQDGGVYEGVGWNNQGSK-TD
Modo-I-C	SYHIEKMKFCEDIA-----	YNFLVGEDGKAYEGVGWDEGAH-TY
Dare-L2-N	RYHQQSNGWSDIG-----	YSFVAGSDGNLYEGRGWNWVGAH-TY
Dare-L2-C	RYHQQSNGWSDIG-----	YSFVAGSDGNLYEGRGWNWVGAH-TY
Susc-L	RFHLDQTQGWDDIG-----	YSFVVGSDGYVYEGRGWHWVGAH-TR
Patr-L	RYHQDQTQGWGDIG-----	YSFVVGSDGYVYEGRGWHWVGAH-TL
Hosa-L	RYHQDQTQGWGDIG-----	YSFVVGSDGYVYEGRGWHWVGAH-TL
Mumu-L	RFHQDVRKWDDIG-----	YSFVVGSDGYLYQGRGWHWVGAH-TR
Modo-L	RYHQDTNGWDDIG-----	YSFVVGTDGYVYEGRGWHWVGAH-TL
Xetr-L	RFHQQDRGWDDIGYRTCNRSSPLSY	YSFVVGSDGNLYYEGRGWNRAGAH-TR
Gaga-L	RFHQDTRGWDDIG-----	YSFVVGSDGYLYQGRGWRWVGAH-TR
Dare-L1	RFHQKDRGWYDIG-----	YSFVVGSDGYIYEGRGWMSQGAH-TK
Taru-L	RFHQDQDRGWNDIG-----	YSFVVGSDGYIYEGRGWNTLGS-TR
Cyca-L	RYHQQTNGWSDIG-----	YSFVAGSDGNLYEGRGWNWVGAH-TY
Onmy-L2	RFHQDDRGWDDIG-----	YSFVAGSDGYLYEGRGWHWQGAH-TK
Oidi	DYHMDGNGWWDVG-----	YNFLIGEDGRIYEGRG-----AH-CS

Gaac-L	GHNAIGYGVSIIIGNYTATLPSRHAADLLRHRLVRC	AVDGGWLAAN-FTIQ
Onmy-L1	GQNPYGYGVAFIGNYSSSLPSLHALDLVRQH	LAKCAVDGGRLQAN-FTLH
Onmy-L3	GYNSKGYGVSFIGDYTSSLPSEQTMELVRDRL	LASCAGGGGRLVGN-FTLY
Onmy-L4	GYNSKGYGVSFIGDYTSSLPSEQTMELVRDRL	LASCAGGGGRLVGN-FTLY
Sasa-L	GYNSKGYGVSFIGDYTSSLPQQTIQLVRDRL	LASCAGGGGRLVGN-FTLY
Orla-L1	GYNSKGYGVSFIGDYTSTLPSQHAMALVRDQL	LASCAGAGGQLVSS-YILK
Orla-L2	GYNSKGYGVSFIGDYTSTLPSQHAMALVRDQL	VSCAGAGGQLVSS-YILK
Fuhe-L	GHNSIGYGVSIIIGNYVTTLPSRHAMDLLRHKL	LALCAVNGGVL-TAN-FTIQ
Xetr-S	NYNFNSIGISFMGTFTNRPNTAAQKA	AKD-LISCGVAKKVINSD-YTLK
Epbu	GYNNCSIGISVMGTFEDAAPNITALHTLQK-	IITFGVTEGFIDLN-YTLY
Hosa-S	LWNPMSIGISFMGNYMDRVPTPQAIRAAQ	G-LLACGVAQGALRSN-YVLK
Susc-S	TWNPLSLGISFMGNYNMRVPPAIRAAQ	S-LLACGVALGVL-RPN-YEVK
Cadr-S	TWNPISIGISFMGNYNMRVPPPRALRAA	QN-LLACGVALGALRSN-YEVK

Bota-S	TWNP
Rano-S	IWNP
Mumu-S	IWNP
Modo-S	AWN
Xela-S	NYNS
Dare-F1	EHN
Furu-F1	GFNN
Hosa-Ia-N	GYNN
Rano-Ia-N	GYNN
Mumu-Ia-N	GYNN
Hosa-Ib-N	GYNN
Rano-Ib-N	GYNN
Mumu-Ib-N	GYNN
Modo-I-N	GYNR
Hosa-Ia-C	GFND
Rano-Ia-C	GYND
Mumu-Ia-C	GYND
Hosa-Ib-C	GYDD
Rano-Ib-C	GYND
Mumu-Ib-C	SYND
Modo-I-C	GYND
Dare-L2-N	GYNS
Dare-L2-C	GYNS
Susc-L	DHNS
Patr-L	GHNS
Hosa-L	GHNS
Mumu-L	GYNS
Modo-L	GHNF
Xetr-L	GYNS
Gaga-L	GHNT
Dare-L1	GRNN
Taru-L	GHNS
Cyca-L	EYNS
Onmy-L2	GYNS
Oidi	GWNT

Gaac-L	GHRQ
Onmy-L1	GHRQ
Onmy-L3	GHRQ
Onmy-L4	GHRQ
Sasa-L	GHRQ
Orla-L1	GHRQ
Orla-L2	GHRQ
Fuhe-L	GHRQ
Xetr-S	GHRD
Epbu	GHRQ
Hosa-S	GHRD
Susc-S	GHRD
Cadr-S	GHRD
Bota-S	GHRD
Rano-S	GHRD
Mumu-S	GHRD
Modo-S	GHRD
Xela-S	GHRN
Dare-F1	GHKD
Furu-F1	GHRD
Hosa-Ia-N	LLLK

Rano-Ia-N	FLLKEET-CLVPQHSEIPK-----
Mumu-Ia-N	FLLKEET-CLVPQHSEIPK-----
Hosa-Ib-N	LLVKGEN-CLAPRQKTSLK-----
Rano-Ib-N	LLVKSED-CLVPPQKGKQK-----
Mumu-Ib-N	LLAKSED-CLVPPQKGKQK-----
Modo-I-N	-----
Hosa-Ia-C	GHSDEVN-ILSPGQALYNIISTWPHF-----
Rano-Ia-C	GHSDEVN-ILSPGQALYNIKTWPHFKH-----
Mumu-Ia-C	GHSDEVN-ILSPGQALYNIKTWPHFKH-----
Hosa-Ib-C	GHSDEVN-TLSPGQALYNIISTWPHF-----
Rano-Ib-C	GHSDEVN-TLSPGQALYNIKTWPHFKH-----
Mumu-Ib-C	GHSDEVN-TLSPGQALYNIKTWPHF-----
Modo-I-C	GHSDEVN-TLSPGQALYDQIKTWPHF-----
Dare-L2-N	GHRQAAA-TELCJNI-----
Dare-L2-C	GHRQAAA-TECPGNTLYRQIQTWERYQ-----
Susc-L	GHRQLVR-TDCPGDALFNLRTWPRFNMNVKPRTARRASGRSKRRLPLMI
Patr-L	GHRQLVR-TDCPGDALFDLLRTWPHFTATVKPRPARSVSERSRREPPRT
Hosa-L	GHRQLVR-TDCPGDALFDLLRTWPHFTATVKPRPARSVSKRSRREPPRT
Mumu-L	GHRQLVL-THCPGNALFNLLRTWPHFTEVEN-----
Modo-L	GHRQLVH-TDCPGDALYRHIRTWPHF-----
Xetr-L	GHRQVVS-TSCPGDALYKEIQSWDFKES-----
Gaga-L	GHRQMVN-TSCPGDALFQEIQTWHGFK-----
Dare-L1	GHRQVVTTSCPGNALYSEITTWMHY-----
Taru-L	GHRQVVN-TSCPGDAFFSEIQSWEHF-----
Cyca-L	GHRQATS-TDCPGNSFYREIQTWEHYQ-----
Onmy-L2	GHRQLVK-TSCPGDAFYSEITGWEHFGEVQN-----
Oidi	GHRDKGN-TTCPGDRLFEEFKEWKNF-----
Gaac-L	-----
Onmy-L1	-----
Onmy-L3	-----
Onmy-L4	-----
Sasa-L	-----
Orla-L1	-----
Orla-L2	-----
Fuhe-L	-----
Xetr-S	-----
Epbu	-----
Hosa-S	-----
Susc-S	-----
Cadr-S	-----
Bota-S	-----
Rano-S	-----
Mumu-S	-----
Modo-S	-----
Xela-S	-----
Dare-F1	-----
Furu-F1	-----
Hosa-Ia-N	-----
Rano-Ia-N	-----
Mumu-Ia-N	-----
Hosa-Ib-N	-----
Rano-Ib-N	-----
Mumu-Ib-N	-----
Modo-I-N	-----
Hosa-Ia-C	-----
Rano-Ia-C	-----

Mumu-Ia-C	-----
Hosa-Ib-C	-----
Rano-Ib-C	-----
Mumu-Ib-C	-----
Modo-I-C	-----
Dare-L2-N	-----
Dare-L2-C	-----
Susc-L	PLATDLQ
Patr-L	LPATDLQ
Hosa-L	LPATDLQ
Mumu-L	-----
Modo-L	-----
Xetr-L	-----
Gaga-L	-----
Dare-L1	-----
Taru-L	-----
Cyca-L	-----
Onmy-L2	-----
Oidi	-----