



E3

Ncras	KGSEEQRTQWPKRKESLGVLRGHGSEGTTGKGMGTMGKEMGKGMGKEKREITA-IPVGS-	161
Ntetr	----EQRTQWPKRKESLGVLRGHGSEGTTGKGMGTMGKEMGKGMGKEKREITA-IPVGS-	158
Ndisc	SGNEEPMRQWPKRKESLGVLRGHGSEEGKGKVMQMKGKGTMGKGT-TGKGEITANIHVGS	172
Foxys	-----	
Fvert	-----	
Fgram	-----	
Trees	-----	
Tvire	-----	
Tatro	-----	
Vdahl	-----	
Moryz	-----	
Tterr	-----	
Sscle	-----	
Nfisc	-----	
Afumi	-----	
Aclav	-----	
Anige	-----	
<b>Anidu</b>	-----	
Aoryz	-----	
Aflav	-----	
Aterr	-----	
Pchry	-----	
Pmarn	-----	
Tstip	-----	
Cimmi	-----	
Cposa	-----	
Ttons	-----	
Trubr	-----	
Tverr	-----	
Abenh	-----	
Mgyps	-----	
Mcani	-----	
Pb-01	-----	
Pb-03	-----	
Aderm	-----	
Mfiji	-----	
Mgram	-----	
Ptrit	-----	
Chete	-----	
Snodo	-----	

E3

Ncras	-----NRRSSISRTRTISRSPSLRRLPLQGVRTP--SRTRLQTTAAAAASAAT-----	206
Ntetr	-----NRRSSISRTRTISRSPSLRRLPLQGARTP--SRTRLQATAASAATAPT-----	203
Ndisc	NNNNNNNNNNNNRRRTISRSPSLRRLPLQGARTPSTSRTRQTATVAAAAAAITPTTPTTPA	232
Foxys	-----AKNANIKKQFDHVDDDDHALPSTRVS-----	93
Fvert	-----AKNANIKKQFDHVDDDDHALPSTRVS-----	93
Fgram	-----AKNIKPKPKPDHVDDDDHDLPKSRVP-----	94
Trees	---QQKQATQDEKIAAHQDDDFSVPPSRVP-----	100
Tvire	---QQGQAKQEEKKIAHQDDNLTVPSSRVP-----	95
Tatro	---EEQPPPEQEEKKFVHQDDDLTVPPSRVP-----	104
Vdahl	---TGASKRRNGSQAHNDAADPFKPPPPVP-----	102
Moryz	-----TRDDQKQPP-----	67
Tterr	---GRSQSQSTAQSRSLSRAKRQQQPPSLPTS-----	127
Sscle	---PRESDYLPSSPSRSLTKKSNQSPASLK-----	96
Nfisc	-----	
Afumi	-----	
Aclav	-----	
Anige	-----	
<b>Anidu</b>	-----	
Aoryz	-----	
Aflav	-----	
Aterr	-----	
Pchry	-----	
Pmarn	-----	
Tstip	-----	
Cimmi	-----	
Cposa	-----	
Ttons	-----	
Trubr	-----	
Tverr	-----	
Abenh	-----	
Mgyps	-----	
Mcani	-----	
Pb-01	-----	
Pb-03	-----	
Aderm	-----	
Mfiji	-----	
Mgram	-----	
Ptrit	-----	
Chete	-----	
Snodo	-----	

E3

Ncras	TPTTPTAPTAAPAPASTPALRTASTSGVSSAGKG - RKGKTTGNSSSSR - - - RSESHSP	261
Ntetr	TPTAPTATTTTTAPASTPASRTTSALGVSSAGKG - RKGKTTGNSSSSRSSSSRRSASHSP	262
Ndisc	TPATTTTTTTTTASAPASSTRTTSTLGVPSGARGGRKGMGTGSSSSSNSS - - RSASHSP	290
Foxys	.....	
Fvert	.....	
Fgram	.....	
Trees	.....	
Tvire	.....	
Tatro	.....	
Vdahl	.....	
Moryz	.....	
Tterr	.....	
Sscle	.....	DDAS 131
Nfisc	.....	
Afumi	.....	
Aclav	.....	
Anige	.....	
<b>Anidu</b>	.....	
Aoryz	.....	
Aflav	.....	
Aterr	.....	
Pchry	.....	
Pmarn	.....	
Tstip	.....	
Cimmi	.....	
Cposa	.....	
Ttons	.....	
Trubr	.....	
Tverr	.....	
Abenh	.....	
Mgyps	.....	
Mcani	.....	
Pb-01	.....	
Pb-03	.....	
Aderm	.....	
Mfiji	.....	
Mgram	.....	
Ptrit	.....	
Chete	.....	
Snodo	.....	



Ncras	-NRKKDELSAQRWSAVKVL E EYDPNN - - - LDEVSRPYAYVADHVVVRVDGAADILAEVRRY	317
Ntetr	-NRKKDELSAQRWSAVKVL E EYDPNN - - - LDEVSRPYAYVADHVVVRVDGAADILAEVRRY	318
Ndisc	PNHKKDELSAQRWSAVKVL E EYDPNN - - - LDEVSRPYAYVADHVVVRVDGAADILAEVRRY	347
Foxys	- - DAEDAVLMHSWSPVKL L E EFDVDE - - MVTACRPYAYVADYVVVRV DLSVDVAGQMAKY	148
Fvert	- - DAEDAVLMHSWSPVKL L E EFDVDE - - MVTACRPYAYVADYVVVRV DLSVDVAGQMAKY	148
Fgram	- - DAEDAVLMHSWSPVRL L E EFDVDE - - MTMACRPYAYVADHVVRI DLSVDVAGEMAKY	149
Trees	- - YSEDSVLVNQFSVPVKL L E EYDPEE - - TSISARPFAYVADHVIRI DLSANVLEEMAKY	155
Tvire	- - DSEDSVLVNQTSAPVKL L E EHDPEE - - TSISARPFAYVADHVIRI DLSVNMLEEMARY	150
Tatro	- - DSEDSVLVNQTSAPVKL L E EHDPEE - - TTISARPYAYVADHVIRI DLSADVLQE IANY	159
Vdahl	- - PEEDDVLLNSWSAVK L L E EYDPTD - - LTSVSRPYAFVADHVVVRV DLSVSVVEEMAGY	157
Moryz	- - AATDSASSQAWSAIRL L E EYDPSM - - LGEAARPHAYVADHVVVRV DLSASVVD E MARY	122
Tterr	SVVSEDDFSAQAWSAIKL L E EYDPRD - - LTAVSRPYAYVADYAA RIDLSCSIVDEIARY	188
Sscle	- - - SPSPNDKPSLTLKKITSHRNKN - - SFESEALHSRSASGSTNPNSGGPQAKEMEKS	150
Nfisc	..... LQFIEQYDPED TDSATAVSQPYAYVAAKVITLSEPGAK - - APGLS	105
Afumi	..... LQFIEQYDPED TDSATAVSQPYAYVAAKVITLSEPGAK - - APGLS	105
Aclav	..... LRFIEQYDPED TTSEMAVSQPYAYVAAKVITLSEPGAR - - APALS	105
Anige	..... LRFIEQYDPED - TSDDAVSKPYAYVGGKVISIPEVDGP - - TPETS	104
<b>Anidu</b>	..... <b>LRFIEQYDPED - ESDEAVSKPYAYVAAKTISIPEAGSP - - NAGSS</b>	<b>104</b>
Aoryz	..... LRFIEQYDPDD - TSDEAVSKPYAYVAAKVITMPESG - - - - ALS	100
Aflav	..... LRFIEQYDPDD - TSDEAVSKPYAYVAAKVITMPESG - - - - ALS	100
Aterr	..... LRFIEQYDPDD TTSETAVSKPFAYVAGKVLTMPDMTSA - - GMSLG	105
Pchry	..... LSFIEQYDPAD - ETSGTVSQDHAYVSTRVLEIPEDGSD - - GGGGA	104
Pmarn	..... LQLIEQYDPLD - MTDAAVSQPHAFVADSVTILPDTARP - - VRGLS	104
Tstip	..... LQLIEQYDPLD - MTDAAVSQPYAFVADNVTVLPDTARP - - VQGLS	104
Cimmi	..... LRIIEQYDPDD - IGDALRQPYAFVAAKVITMPDEGRP - - GQMLS	107
Cposa	..... LRIIEQYDPDD - IGDALRQPYAFVAAKVITMPDEGRP - - GQMLS	107
Ttons	..... LALIEQYDPED - TRTSALSQPYAFVCSKVVPIDGSEPQFNFFLS	109
Trubr	..... LALIEQYDPED - TRTSALSQPYAFVCSKVVPIDGSEPQFNFFLS	109
Tverr	..... LALIEQYDSED - TSISALSQPYAFVCSKVVPIDGSEPQFNFFLS	109
Abenh	..... LALIEQYDPED - TRISALSQPYAFVCSKVVPIDGSEPQFNFFLS	109
Mgyps	..... LALIEQYDPED - TRTSTLCQPYAFVCSKVVPIDGSEPQFNFFLS	109
Mcani	..... LALIEQYDPPD - TRTSTLCQPYAFVCAKVVPIDGSSAPQFTSFLS	109
Pb-01	..... LQLIEQYDPDD - LGADAVSQPYAYVSAKTLTMG - - AKALSRAGLG	107
Pb-03	..... LQLIEQYDPPD - LSADAVSQPYAYVSAKTLTMG - - AKALSRTGLG	107
Aderm	..... LQLIEQYDPED - LSPDAVSQPYAYVAAKTMTMG - - AEALSGAGLG	107
Mfiji	..... LRFVEQYDPND - ISSASSQPYAYVADICEEVK - - - - -	91
Mgram	..... LRFVEQYDPND - MSS - - LSQPYAYVADIVEEVK - - - - -	89
Ptrit	..... LRFIEQYDPPD - LTAK - - DQPYAYVCDIVQEIK - - - - -	89
Chete	..... LQFIEQYDPPD - FTVK - - DQPHAYVCDIVHEIK - - - - -	89
Snodo	..... LRFIEQYDPED - LTVK - - DQPYAYVCDQVHEIK - - - - -	89

		←
Ncras	EERMQLRLKLGAEERTGERDPKANRNSGGSGGSSEYHDALEHLEESAKEKE - ETWIEQ	376
Ntetr	EERMQLRLKLGAEKAGERNPKANRNSGGSGGSSEYHDALEHLEESAKEKD - ETWIEQ	377
Ndisc	EERMQ-QQQRKKGEEKLGKRDNKANRNSGGSGGSVEFHDALEHLEEGAKEKDMTWIEQ	406
Foxys	YDKMAG - - - - - EDGWIMK	161
Fvert	YDRMAG - - - - - EDGWIJK	161
Fgram	YERMAG - - - - - EDGWIVK	162
Trees	EALVKER - - - - - NEGNWFER	170
Tvire	EALVKER - - - - - NEGNWLER	165
Tatro	DALVKER - - - - - NEGNWFER	174
Vdahl	EERMGRDSAGGRAMT - - - - - AASSDDFNNGKAGHKKGATSGKKAGWLEK	201
Moryz	QARLKESGAMGGP - - - - - HSDETGRRQRAAKDRKAGWLEK	157
Tterr	EQQQLQSARP - - - - - AISIPSRNAPAEQPGWFEE	217
Sscl	LRFNQWS - - - - - VIKLLEQ	164
Nfisc	WNPEDLAKDSP - - - - - LEPSAMEALTO	127
Afumi	WNPEDLAKDSP - - - - - LEPSEMEALTO	127
Aclav	WNPEDLAKDSP - - - - - LDPAAL EALTK	127
Anige	WKPEDIFKEEP - - - - - LEKDAMEALTE	126
<b>Anidu</b>	<b>WN-TDIFQENP</b> - - - - - <b>LDPASSEALAK</b>	<b>125</b>
Aoryz	LDAEELVKESG - - - - - LDENAMAALTE	122
Aflav	LDAEELVKESG - - - - - LDENAMAALTE	122
Aterr	LDAEELVKKSG - - - - - LDQDAMDALTE	127
Pchry	NIEDCVEQSG - - - - - LTDDQTAALTE	126
Pmarn	MEIDQKFLDDA - - - - - IPPEARDTLAE	126
Tstip	MNIDQRPLDDV - - - - - ILSDAHTALAE	126
Cimmi	LNIGETIEKGPE - - - - - LSPGGPEALRR	130
Cposa	LNIGETIEKGPE - - - - - LSPGGPEALRR	130
Ttons	LDLEDFISKGGP - - - - - LSAAELATFAN	132
Trubr	LDLEDFISKGGP - - - - - LSAAELATFAN	132
Tverr	LDLEDFISKGGP - - - - - LSAAELATFAN	132
Abenh	LDLEDFISKGGP - - - - - LSAAELATFTN	132
Mgyps	LDLEDFISKGGP - - - - - LSAAELATFAN	132
Mcani	LDLEEFISKGGP - - - - - LSSEALATFST	132
Pb-01	LSLQEIQAQDPG - - - - - LSTAGTEVFVK	130
Pb-03	LSLQEIQLDPG - - - - - LSTAGTEVFVK	130
Aderm	LRVQEILQDPG - - - - - LSTAGSEVFRK	130
Mfiji	LGIDIDEFRAG - - - - - VGNEQWSALCE	114
Mgram	LGLDVDEVRGKE - - - - - VSDEQTKALAA	112
Ptrit	LGEIVDEVRGAG - - - - - LGEEQWAAIAE	112
Chete	LGVDIIEVQGAE - - - - - IADGQRAAITE	112
Snod	TGVDFDELRRGG - - - - - LGEDQWAAIAD	112

Ncras	LRDELQRGEEIKWYVVVNGDEERNYSNPSSDDEDEDEDEDE - - YEYDDSEELSSSEITS	434
Ntetr	LRDELQRGEEIKWYVVVNGDEERNYSNPSSDDEDEDEDEDEDEYDYDDSEELSSSEITS	437
Ndisc	LRDELQRGEEIKWYVVVNGDEERDYSNPSSDDEDEDE - EDEDE - - - YDSEDLSSEIN -	460
Foxys	LRNELQKGEVPRWYVVVCGDDVREVPGKSDEEEKEVGYEQIRDAAQTMVRNRRTKDALEG	221
Fvert	LRNELQKGEVSRWYVVVCGDDVREVPGKSDEEEKEVGYEQIRDAAQTMVRNRRTKDALEG	221
Fgram	LRDQLQKGEVVKWYVVVCGDEVREVPGKSDEEEKEVGYEQIRDAAQTMVRNRRTKDALEG	222
Trees	LRDELQPGSPIEWYVVVNGDEERGWDHGGGGGEGEEDVEM	211
Tvire	LRDELQQGAPIEWYVVVNGDEERCVPQDDDEESFES - - - - - EMREI	206
Tatro	LRDELQAGASIGWYVVVNGDEERAVPEYDDEDEES - - - - - DATE -	214
Vdahl	LRDQLQKGEDIRWYVVVCGDEERAVCEELLEAPREQ - - - - - L	238
Moryz	LRDQLQRGEEIRWYVVVNGDEERGWDHGGGGGEGEEDVDF - - - - - DGQ -	202
Tterr	LRDQLQRGEEIRWYVVVNGDEVDRWSHEPSDRGVSSEPSAAGYPQPPSLHRQQDQNY	277
Sscl	YDPDDLKTASQPWAYVSDYIVEVGLGVSISEEVKYYK - - - - -	201
Nfisc	<b>LRDKYAAGERIGWYVVVNGDPERWFPHSEEDSY-DEYDDEEDD - - - - -</b>	<b>171</b>
Afumi	<b>LRDKYAAGERIGWYVVVNGDPERWFPHYEEDSY-DEYDDEEDD - - - - -</b>	<b>171</b>
Aclav	<b>FRDKYAAGERIGWYVVVNGDPERWYPHSEGEDSYGEDYDDEEDD - - - - -</b>	<b>173</b>
Anige	<b>FRDKYAAGERIGWYVVVNGDPERWFPHDEEDGDSFDDGYDEEGSYA - - - - -</b>	<b>173</b>
<b>Anidu</b>	<b>FRDKYAAGERIGWYVVVNGDPERWFPHDEDEDEGMEDDGYDD - - - - -</b>	<b>167</b>
Aoryz	MRDKYAAGEKIGWYVVVNGDPERWFPQIDEDD - - - - - ESMYDDE -	163
Aflav	MRDKYAAGEKIGWYVVVNGDPERWFPQIDEDD - - - - - ESMYDDE -	163
Aterr	<b>FRDKYAAGEKIGWYVVVNGDPERWFPQVEEEEE - - - - - EDESLMDE -</b>	<b>168</b>
Pchry	<b>LRDLAPGEKIGWYVVVNGDPERWYDPSEDEEYSEEDSVDESQTRRQ - - - - -</b>	<b>175</b>
Pmarn	IRDAIAPGAKIGWYVVVNGDPERWYPMEDDDELIEDTEDGAGGN - - - - -	171
Tstip	IRDAIAPGQKIGWYVVVNGDPERWYPMEDD - - - - - LMED - ED -	163
Cimmi	LRDFLAPEENIGWYVVVNGDPERAFPKSDEGDSATED - - - - -	167
Cposa	LRDFLAPEENIGWYVVVNGDPERAFPKSDEGDSATED - - - - -	167
Ttons	LREVLAPGEKIGWYVVVNGDPERAFPKSDEGDSATED - - - - -	168
Trubr	LREALAPGEKIRWYVVVNGDPERAFPKSDEGDSATED - - - - -	169
Tverr	LREVLAPGEKIGWYVVVNGDPERAFPKSDEGDSATED - - - - -	169
Abenh	LREVLAPGEKIGWYVVVNGDPERAFPKSDEGDSATED - - - - -	169
Mgyps	LREVLAPGEKIGWYVVVNGDPERAFPKSDEGDSATED - - - - -	169
Mcani	LRDVLGPGEKIGWYVVVNGDPERAFSAATEEELHIES - - - - -	169
Pb-01	LKDELAPASEIGWYVVVNGDPERAFYESSDESSESSVED - - - - -	167
Pb-03	LKDELAPASEIGWYVVVNGDPERAFYESSDESSESSVAED - - - - -	167
Aderm	LRNELAPDAEIGWYVVVNGDPERAFSEDSDESPVDDG - - - - -	167
Mfiji	LRDKIAPEEKVWYVVVCGDEDWAPVTG - - - - - LLQSGGH -	151
Mgram	VRDKLAPVPGWYVVVCGDEERLAPGNEDE - - - - - AEEAVEAGQV -	154
Ptrit	LRDKVAPGEKLGWYVVVNGDVERWAPALE - - - - - DDDTTPDASQFG -	153
Chete	LRDKVAPGEKLGWYVVVNGDVERWAPALE - - - - - DDDATPEASILS -	153
Snod	LRDKVAPGEKLGWYVVVNGDVERWAPALESEGEDTETATNSPFS - - - - -	157

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Ncras	-STTPTPTSTTTMATS-TRG-TTPTAGQAPPPPPPTAMS-MRNTGPIIKEGAARRVV	601
Ntetr	-STAPTPTPTSTTTMATS-TRG-TTPTAGQAPPPP--PTAMS-MRNTGPIIKEGAARRVV	602
Ndisc	RSTGSTPTPTTTTATTNTRGGTSPTTAPAPAPAPPPTAMPAMRNTRAIKEGAARRVV	639
Foxys	ALETDPVEMPLLHPDNTRYASTASEIYSAYQSRIEPEEFAKIQSSVQDPMRGEIPDVK	401
Fvert	ALETSDVEIPLLHPDNTRYSVSTASEIYSAYQSRIEPEEFDHSSVQDPIRGEIPNVK	401
Fgram	--ETPDADMRLRQSEITQYSASTTSGLHSENGRTRLEPEEFAKAQPPTQNFVREETPDVV	391
Trees	-----	
Tvire	-----	
Tatro	-----	
Vdahl	-----	
Moryz	-----	
Tterr	-----	
Sscle	-----	
Nfisc	-----	
Afumi	-----	
Aclav	-----	
Anige	-----	
<b>Anidu</b>	-----	
Aoryz	-----	
Aflav	-----	
Aterr	-----	
Pchry	YTGL-----	280
Pmarn	-----	
Tstip	-----	
Cimmi	-----	
Cposa	-----	
Ttons	-----	
Trubr	-----	
Tverr	-----	
Abenh	-----	
Mgygs	-----	
Mcani	-----	
Pb-01	-----	
Pb-03	-----	
Aderm	-----	
Mfiji	-----	
Mgram	-----	
Ptrit	NAS-----	238
Chete	AAP-----	237
Snodo	ISRG-----	242

Ncras	SEGEIHPALRGQARRSEIPIIMVTPTRSTFPDETETETAGAVGEKRMVEQPQQPQPQQ	661
Ntetr	SEGEIHPALRGQARKSEIPIIMVTPTRSTFPDETETETAGAVGERRMVEQPQQPQPQPS	662
Ndisc	SEEEIHPALRGVQQNPEIPIIMVTPTRSTFP--TETGMAGAAGERRMAEQQQQQQQQQQ	697
Foxys	QPLKPNELHPSRSSTPPTPKPLQRQLPAPTIYRPESFIPPFSPVLPPMEGFDQESPRLNT	461
Fvert	QPLKPNKLHPSRSSTPPTPKPLQRQRPVPTIYRPESFVPPFSPVLPPMDGFEEVSPRPNT	461
Fgram	QPLKLAELVSSRTSTLPTPKNSQRKLPAPSLYRPESFIPPFSPPLPSSETFPDEAPKSTV	451
Trees	-----	
Tvire	-----	
Tatro	-----	
Vdahl	-----VPPAPTREPPPAREQRPATAHPQPVMEISNVG-----	362
Moryz	-----GPSDNGMQPLS-----	259
Tterr	SLPRRDLGLRERQREKEKDMANEEQPRPLFIGPGKGMTNTRITTTTTTTPTKKTITTT	453
Sscle	-----	
Nfisc	-----	
Afumi	-----	
Aclav	-----	
Anige	-----	
<b>Anidu</b>	-----	
Aoryz	-----	
Aflav	-----	
Aterr	-----	
Pchry	-----	
Pmarn	-----	
Tstip	-----	
Cimmi	-----	
Cposa	-----	
Ttons	-----	
Trubr	-----	
Tverr	-----	
Abenh	-----	
Mgygs	-----	
Mcani	-----	
Pb-01	-----	
Pb-03	-----	
Aderm	-----	
Mfiji	-----	
Mgram	-----	
Ptrit	-----	
Chete	-----	
Snodo	-----	

Ncras	QQHQHHQQQQPQQPQPQHPQPHQ-----HHQINETEPGPRRGSTASANPDMGT	710
Ntetr	QQQQHHQQQQPQQPQPQPPQQPQQ-----HHQINETEPGPRRASTASANPDMGI	711
Ndisc	QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQRDEIEPETSRRGSSASN-TMGI	756
Foxys	PSRTENVKPPETSWPLSSDSPLESSGSSTFHNQDAPYPYVTSIINPKDRPGTYLNVPKEL	521
Fvert	PSRAENVKPPETSWPLSSDSPLESSGSSTFHNQDTPYPYVTSIMSPKDSLSTYLNVPKEL	521
Fgram	PNKTGATKPTHEHPWPLSSDSPLGSSGSSTYHNEENSFPLVSSPAHSKNPPAATFSLPKEI	511
Trees	-----	
Tvire	-----	
Tatro	-----	
Vdahl	-----VKTPHKSRSLRRLFGMKEGSS-----	383
Moryz	-----VMPPQDVASKPTT-----KGTGS---GFRRLF	283
Tterr	PGGDRPPMVPEKDYPFRPPAGNANTLAHAGPLRPKKSVDAGAGGRPKPSGSKTGGLRRLF	513
Sscle	-----	
Nfisc	-----	
Afumi	-----	
Aclav	-----	
Anige	-----	
<b>Anidu</b>	-----	
Aoryz	-----	
Aflav	-----	
Aterr	-----	
Pchry	-----	
Pmarn	-----	
Tstip	-----	
Cimmi	-----	
Cposa	-----	
Ttons	-----	
Trubr	-----	
Tverr	-----	
Abenh	-----	
Mgyps	-----	
Mcani	-----	
Pb-01	-----	
Pb-03	-----	
Aderm	-----	
Mfiji	-----	
Mgram	-----	
Ptrit	-----	
Chete	-----	
Snodo	-----	

Ncras	ITSTTVPLTSSFSLDTSPSNAPTPTTIP-ALSLKPLKPPKKQSTLP---TLPTISTSSL	765
Ntetr	ITSTTVPLTSSFSLDTSPSNAPTPTTIPTGLTLKPLKPPKKNSTLPTIIPPTIPTISTASL	771
Ndisc	IT-TTVPLTSSFSLDTSPSNVPTPTTIPLNLSLKTLPKPLK--APKP-----PKRHLSNP	807
Foxys	VPPRTPSPTSEYSPQSQNFSGNMPKFEGIVPHAPLLVSPNPARLE-----QPSSGI	573
Fvert	VPPRTPSPTSEYSPQSQNFSGNMPKFEGIVSHAPLLVSPNPARLE-----QPSSGI	573
Fgram	TPPRIPSPASKYPLQPQFPGPTMSRFEESVLQASPLLVTNPKRLE-----KPSSGV	563
Trees	-----	
Tvire	-----	
Tatro	-----	
Vdahl	-----	
Moryz	GKGSKSSGDLK-----	294
Tterr	GRAKADVYAP-----	524
Sscle	-----	
Nfisc	-----	
Afumi	-----	
Aclav	-----	
Anige	-----	
<b>Anidu</b>	-----	
Aoryz	-----	
Aflav	-----	
Aterr	-----	
Pchry	-----	
Pmarn	-----	
Tstip	-----	
Cimmi	-----	
Cposa	-----	
Ttons	-----	
Trubr	-----	
Tverr	-----	
Abenh	-----	
Mgyps	-----	
Mcani	-----	
Pb-01	-----	
Pb-03	-----	
Aderm	-----	
Mfiji	-----	
Mgram	-----	
Ptrit	-----	
Chete	-----	
Snodo	-----	

Ncras	VRNRGNRHSSNTNTGSKRSSLTTLRSPSSWSCLSLHL - - - GSHS - HSTSPKDKDGEDIT	821
Ntetr	VRNRGNRHSSNTGTGSKRSSLTTLRSPSSWSCLSLHL - - - GSHSHSTSPK - - DGGDTT	826
Ndisc	LSSIS - - TTTTTTTTNNKRSSLTSLRSPSSWSCLSLNLNLGHHHSTTNNPKDKDREEIN	865
Foxys	LYEAGDTISEQQLPSTPMPNAKQVALPNLDTKAA - - - KELVSKPSASATTPTSAHQKTIN	630
Fvert	LYEAGDTISEQRLSSTPMPKTKQVALPNLDTKAA - - - KEPASKP - PSATTPTSAHRKTIN	629
Fgram	VYQAGESIPKKQPPSSLPRSSVVRAPPPLNINTANSIKRSTSNPAKNITPPTSAQRETTD	623
Trees	-----	
Tvire	-----	
Tatro	-----	
Vdahl	-----	
Moryz	-----	
Tterr	-----	
Sscle	-----	
Nfisc	-----	
Afumi	-----	
Aclav	-----	
Anige	-----	
<b>Anidu</b>	-----	
Aoryz	-----	
Aflav	-----	
Aterr	-----	
Pchry	-----	
Pmarn	-----	
Tstip	-----	
Cimmi	-----	
Cposa	-----	
Ttons	-----	
Trubr	-----	
Tverr	-----	
Abenh	-----	
Mgyps	-----	
Mcani	-----	
Pb-01	-----	
Pb-03	-----	
Aderm	-----	
Mfiji	-----	
Mgram	-----	
Ptrit	-----	
Chete	-----	
Snodo	-----	

Ncras	GDDDEEVVLPPRPSPSPPIPIISVN - - PMG - - SYSYEPVSTLPPRPAPMPPNGSNNSNK	877
Ntetr	- - EMDEEVVLPPRPSPSPPIPIISLNLNPMGS - SYSYEPVSTLPPRPAPAPP - - - - - GSK	878
Ndisc	- EEEEEEEAEDPPRPSPSPPIPLHHP - HPMGSSAYSYEPVSTLPPRPAPAPP - - - - - K	916
Foxys	PVLKTP - - - - - PRNPATQONTQKLPKSRLPRSVPKNIRISNVPLPPEPEIKTPRRPPTP	684
Fvert	PALRTP - - - - - PRNPATAQPTAQMSPKSRLPRSVPKNIRISNVPLPPEPEIKTPRRPPTP	683
Fgram	LNMKTPTPTPKTPTGQPLTQASPKSRIPRSGPKTIRVSTLPPPEPAVKSPVRPPTP	683
Trees	-----	
Tvire	-----	
Tatro	-----	
Vdahl	-----	
Moryz	-----	
Tterr	-----	
Sscle	-----	
Nfisc	-----	
Afumi	-----	
Aclav	-----	
Anige	-----	
<b>Anidu</b>	-----	
Aoryz	-----	
Aflav	-----	
Aterr	-----	
Pchry	-----	
Pmarn	-----	
Tstip	-----	
Cimmi	-----	
Cposa	-----	
Ttons	-----	
Trubr	-----	
Tverr	-----	
Abenh	-----	
Mgyps	-----	
Mcani	-----	
Pb-01	-----	
Pb-03	-----	
Aderm	-----	
Mfiji	-----	
Mgram	-----	
Ptrit	-----	
Chete	-----	
Snodo	-----	





Ncras	KDGWI-----	1001
Ntetr	KEGWI-----	990
Ndisc	KEGWI-----	1014
Foxys	EDGRHPKQRIGRSHSVAEGLKKLFRKPSHAKAGHHP	832
Fvert	-----	
Fgram	EGGKHQKHHVARSHSVADGFKRLFRRPSLTKGSHH-	836
Trees	-----	
Tvire	-----	
Tatro	-----	
Vdahl	-----	
Moryz	-----	
Tterr	-----	
Sscle	-----	
Nfisc	-----	
Afumi	-----	
Aclav	-----	
Anige	-----	
<b>Anidu</b>	-----	
Aoryz	-----	
Aflav	-----	
Aterr	-----	
Pchry	-----	
Pmarn	-----	
Tstip	-----	
Cimmi	-----	
Cposa	-----	
Ttons	-----	
Trubr	-----	
Tverr	-----	
Abenh	-----	
Mgyps	-----	
Mcani	-----	
Pb-01	-----	
Pb-03	-----	
Aderm	-----	
Mfiji	-----	
Mgram	-----	
Ptrit	-----	
Chete	-----	
Snodo	-----	