Trees Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram	HCFGASRAAMSSSLSPDH-AEGSTSRAS'FEASRAAMSSSLSPDH-AEGGTSRAS'	TEGTDKGVLSS
Abenh Tverr		MG 2
Trubr Ttons		
Mgyps	MASSAPQSSPEANR-	
Mcani	MGGN	-YPASINLGP 13
Cimmi Cposa	MEPSGTNQGIMAGQS(MEPSGTNQGIMAGQS(
Pb-01	MASFGQYGGLASDK-	14
Pb-03 Aderm	MASFGQYGGLASDK- MASLGHHNGSPSNQ-	14 14
Afumi	MASLUMINUSPSINQ-	-GHT R 17
Nfisc		MVT
Aclav Aflav	MASLNEGVLPLEA	MYT 3 -DALNRONDE 22
Aoryz	MASLNEGVLPLEA	-DALNRQNDE 22
Anige Aterr	MTSINGGPMSVDL MTAAMATMNGGVMPMDH	
Anidu	MTSISSRPIPLDLNAI	
Pchry	MCCVDCCCUTC CM	CVNDDVAQVCATCMEDI 20
Pmarn Tstip		
		4 04
Trees Tvire		KKVT RT GNPPKRRGPKP 64
		H93 KKVT <i>RT</i> GNPPKRRGPKP 66 KKVT <i>RT</i> GNPPKRRGPKP 64 KKVT <i>RT</i> GNPPKRRGPKP 56
Tvire Tatro Vdahl Moryz		H93KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKVTRTGNPPKRRGPKP 56KKATRDGQPPKRRGPKP 58KRTKSDAPAPKRRGPKP 49
Tvire Tatro Vdahl Moryz Tterr		H93KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKVTRTGNPPKRRGPKP 56KKATRDGQPPKRRGPKP 58KRTTKDAPAPKRRGPKP 49KRTTRDGQPQKRRGPKP 57
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr		KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKVTRTGNPPKRRGPKP 56KKATRDGQPPKRRGPKP 58KRTKSDAPAPKRRGPKP 49KRTTRDGQPPKRRGPKP 57KK-TRDGQPPKRRGPKP 55KK-TRDGQPPKRRGPKP 55
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc		H93KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKYTRTGNPPKRRGPKP 56KKATRDGQPPKRRGPKP 49KRTTRDGQPQKRRGPKP 57KK-TRDGQTPKRRGPKP 55KK-TRDGQPKRRGPKP 55KK-TRDGQPKRRGPKP 55
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert		H93KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKYTRTGNPPKRRGPKP 56KRATRDGQPPKRRGPKP 58KRTTRDGQPQKRRGPKP 57KK-TRDGQPKRRGPKP 55KK-TRDGQPKRRGPKP 55KK-TRDGQPKRRGPKP 55KK-TRDGQPKRRGPKP 66KRTTRDGNPPKKRGPKP 66
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram		
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit		H93KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKVTRTGNPPKRRGPKP 56KRTTRDGQPPKRRGPKP 58KRTTRDGQPQKRRGPKP 57KK-TRDGQPQKRRGPKP 55KK-TRDGQPPKRRGPKP 55KK-TRDGQPPKRRGPKP 66KRTTRDGNPPKKRGPKP 66KRTTRDGNPPKKRGPKP 66KRTTRDGNPPKKRGPKP 66KSTRVDGSTPKRRGPKP 64KSTRVDGSTPKRRGPKP 62
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo		H93KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKVTRTGNPPKRRGPKP 56KRTTRDGQPPKRRGPKP 58KRTTRDGQPQKRRGPKP 57KK-TRDGQPQKRRGPKP 55KK-TRDGQPPKRRGPKP 55KK-TRDGQPPKRRGPKP 56KRTTRDGNPPKRGPKP 66KRTTRDGNPPKRRGPKP 66KRTTRDGNPPKRRGPKP 66KRTTRDGNPPKRRGPKP 66KRTTRDGNPPKRRGPKP 66KRTTRDGNPPKRRGPKP 62KKTTRDGQPPKRRGPKP 62KKTTRDGQPAKRRGPKP 92KKTTRDGQPAKRRGPKP 92KKTTRDGQPAKRRGPKP 104
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji	- LNLNFFKNLSD - LNLNFFKNLSD - LNLGFLKGLTE - LPSNFLRNLTD - MNLDILRTLTE - LNLTILKSLSD - LNLTILKSLSD - LNFTILQNLAD - DDNTAASALDPDFYKSLTD - DDNAAA-LDPEIYKSLAD - SPLSMSLGFLKTLTER MESAGQWQSLGSDTKSPLAQFGFFKSLT-D - FNGSGSESKSPLAQFGFFKSLT-D	H93KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKVTRTGNPPKRRGPKP 56KKATRDGQPPKRRGPKP 58KRTTRDGQPQKRRGPKP 57KK-TRDGQTPKRRGPKP 55KK-TRDGQPPKRRGPKP 55KK-TRDGQPPKRRGPKP 55KK-TRDGQPPKRRGPKP 66KRTTRDGNPPKRGPKP 66KRTTRDGNPPKRGPKP 66
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram		H93KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKVTRTGNPPKRRGPKP 56KRTTRDGQPPKRRGPKP 58KRTTRDGQPQKRRGPKP 57KK-TRDGQPQKRRGPKP 55KK-TRDGQPPKRRGPKP 55KK-TRDGQPPKRRGPKP 66KRTTRDGNPPKKRGPKP 66KRTTRDGNPPKKRGPKP 66KRTTRDGNPPKRRGPKP 64KSTRVDGSTPKRRGPKP 64KSTRVDGSTPKRRGPKP 62KTTRDGQPPKRRGPKP 92KKTTRDGQPPKRRGPKP 104KKTTRDGQPPKRRGPKP 56
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji		H93KKVTRTGNPPKRRGPKP 66KKVTRTGNPPKRRGPKP 64KKVTRTGNPPKRRGPKP 56KKATRDGQPPKRRGPKP 58KRTTRDGQPQKRRGPKP 57KK-TRDGQPQKRRGPKP 55KK-TRDGQPPKRRGPKP 55KK-TRDGQPPKRRGPKP 55KK-TRDGQPPKRRGPKP 56KRTTRDGNPPKKRGPKP 66KRTTRDGNPPKRGPKP 66KRTTRDGNPPKRGPKP 64
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr	- LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLGFLKGLTE - PSNFLRNLTD - MNLDILRTLTE - LNLTILKSLSD - LNLTILKSLSD - LNLTILKSLSD - LNFTILONLAD - DDNTAASALDPDFYKSLTD - DDNAAASTLDPDFFKSLTD - DDNAAASTLDPDFFKSLTD - SPLSMSLGFLKTLTER MESAGQWQSLGSDTKSPLAQFGFFKSLT - D- MESTGQWQSIGSESKSPLAQFGFFKSLT - D - M - M - M - M - M - M - M - M - M	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr		
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Mfiji Mgram Abenh Tverr Trubr Ttons Mgyps Mcani		
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Truns Mgyps Mcani Ciposa	- LNLNFFKNLSD LNLNFFKNLSD LNLNFFKNLSD LNLGFLKGLTE	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Abenh Tverr Trubr Trubr Ttons Mgyps Mcani Cimmsa Pb-01		H93
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Truns Mgyps Mcani Ciposa	- LNLNFFKNLSD LNLNFFKNLSD LNLNFFKNLSD LNLGFLKGLTE	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chetei Mgram Abenh Tverb Trubr Ttons Mgyps Mcanni Cposa Pb-01 Pb-03 Afumi	- LNLNFFKNLSD LNLNFFKNLSD LNLNFFKNLSD LNLNFFKNLSD	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxert Fgrale Ptrid Snodo Chete Mfijam Abenh Tverr Trubrs Mgyps Mcanni Cimmia Pb-01 Pb-03 Ademi Nfisc	- LNLNFFKNLSD LNLNFFKNLSD LNLNFFKNLSD LNLNFFKNLSD LNLGFLKGLTE	
Tvire Tatro Vdahl Moryz Tterr Ncras Nterr Ndisc Foxys Fveram Sscle Ptrit Snodo Cheiji Mgram Abenr Trubr Ttons Mgyps Mcami Cposa Pb-01 Aderm Afumi Nfisc Aflav	- LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLGLKGLTE - PSNFLRNLTD - MNLDILRTLTE - LNLTILKSLSD - LNLTILKSLSD - LNLTILKSLSD - LNFTILONLAD - DDNTAASALDPDFYKSLTD - DDNAAASTLDPDFFKSLTD - DDNAAASTLDPDFFKSLTD - SPLSMSLGFLKTLTER MESAGQWQSLGSDTKSPLAQFGFFKSLT - D - MESTGQWQSIGSESKSPLAQFGFFKSLT - D - PPIVPI - KKPSLANLPFIRNFSDPL - PPIVPK - KNPSLVNMSFLKNFNDPL - PPIVPK - KNPSLVNMSFLKNFNDPL - PMTAPVSAESSFISMPFLKALGGGL - NKKIENVDVDVDDF - NKKIENVDVDVDDF - NKKIENVDVDVDDF - NKKIENVDVDVDDD - SSRNGNAG - DQ - GAPSQTSLKTPTSMSTNFFQFFGG - LNGNOSGGSLMK - ASMGTEWFRFFGSG - LNGNOSGGLMK - ASMGTEWFRFFFGSG - LNGNOSGGLMK - ASMGTEWFRFFGSG - LNGNO	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetsc Foxys Fvert Fgram Sscle Ptrit Snodo Chetji Mgram Abenh Tvenr Ttubr Ttubr Cimma Cposa Pb-01 Pb-03 Afumi Nfisc Aclav Aoryz	- LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLGFLKGLTE - PSNFLRNLTD - MNLDILRTLTE - LNLTILKSLSD - LNLTILKSLSD - LNFTILQNLAD - DDNTAASALDPDFYKSLTD - DDNAAASTLDPDFFKSLTD - DDNAAASTLDPDFFKSLTD - DDNAAASTLDPDFFKSLTD - SPLSMSLGFLKTLTER MESAGQWQSLGSDTKSPLAQFGFFKSLT-D MESTGQWQSIGSESKSPLAQFGFFKSLT-D - NPPGSD-RSPLHDLGFYKNITPE - PFUVPI-KKPSLANLPFIRNFSDPL - PPIVPI-KKPSLANLPFIRNFSDPL - PPIVPI-KKPSLANLPFIRNFSDPL - PPIVPI-KKPSLANLPFIRNFSDPL - PPIVPI-KKPSLANLPFIRNFSDPL - PPIVPI-KKPSLANLPFIRNFSDPL - PRIVPI-KKPSLANLPFIRNFSDPL - PRIVPI-KKPSLANLPFIRNFSDPL - PRIVPI-KKPSLANLPFIRNFSDPL - PRIVPI-KKPSLANLPFIRNFSDPL - PRIVPI-KKPSLANLPFIRNFSDPL - PRIVPI-KKPSLANLPFIRNFSDPL - NKKIENVDVDVDDF - NKKYENVDVDVDDF - NKKIENVDVDVDDF - NKKIENVDVDVDDF - NKKIENVDVDVDDF - NKKIENVDVDVDDF - NKKIENVDVDVDDF - SSRNGNAG - DQ - GAPSQTSLKTPTSMSTNFFQFFGG - LNGRQSQGSLMK-ASMGTEWFRFFGSG - LNGRQSQGSLMK-ASMGTEWFRFFGSG	H93
Tvire Tatro Vdanl Moryz Tterr Ncras Nterr Ndisc Foxys Fveram Sscle Ptrid Snode Chfiji Mgram Abenr Trubr Ttons Mgypni Cimmi Cposa Pb-03 Aderm Aflav Aoryz Aflav Aoryge Aterr	- LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLGLKGLTE - PSNFLRNLTD - MNLDILRTLTE - LNLTILKSLSD - LNLTILKSLSD - LNFTILQNLAD - DDNTAASALDPDFYKSLTD - DDNAAA-LDPEIYKSLAD - SPLSMSLGFLKTLTER MESAGQWQSLGSDTKSPLAQFGFFKSLT-D - FNGSGSESKSPLAQFGFFKSLT-D - FNGSGSESKSPLAQFGFFKSLT-D - PPIVPI-KKPSLANLPFIRNFSDPL - SACIGPPTVPK-KNPSLVNMSFLKNFNDPL - PNTVPK-KNPSLVNMSFLKNFNDPL - PNTVPK-KNPSLVNMSFLKNFNDPL - SRNGNAG - DMTAPVSAESSFISMPFLKALGGGL - NKKIENVDVDVDVDD - SSRNGNAG - DQ - GAPSQTSLKTPTSMGNHFQFFGG - LNGRQSQGSLMK-ASMGTEWFRFFGSG - LNGRQSQGSLMK-ASMGTEWFRFFGSG - PEAMPSQPNSRP-STIGADFFKFFSGG - PEAMPSQPNSRP-STIGADFFKFFSGG - PEAMPSQPNSRP-STIGADFFKFFSGG - PEAMPSQPSSLK- GADWFKFFGGG	
Tvire Tatro Vdanl Moryz Tterr Ncras Nterr Ndisc Foxys Fveram Sscole Ptrit Snodo Cheiji Mgram Abenr Trubr Ttons Mgyps Mcami Cposa Pb-01 Aberm Afumi Nfisav Aflav Aoryz Anige Anidu	- LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLNFFKNLSD - LNLGLKGLTE - PSNFLRNLTD - MNLDILRTLTE - LNLTILKSLSD - LNLTILKSLSD - LNLTILKSLSD - LNFTILONLAD - DDNTAASALDPDFYKSLTD - DDNAAASTLDPDFFKSLTD - DDNAAASTLDPDFFKSLTD - SPLSMSLGFLKTLTER MESAGQWQSLGSDTKSPLAQFGFFKSLT - D- MESTGQWQSLGSDTKSPLAQFGFFKSLT - D- MESTGQWQSLGSDTKSPLAQFGFFKNITPE - M M M M M M M M M M M M M M M M M M	
Tvire Tatro Vdanl Moryz Tterr Ncras Nterr Ndisc Foxys Fveram Sscle Ptrid Snode Chfiji Mgram Abenr Trubr Ttons Mgypni Cimmi Cposa Pb-03 Aderm Aflav Aoryz Aflav Aoryge Aterr		
Tvire Tatro Vdanl Moryz Tterr Ncras Ntetsc Foxys Fvera Fgrale Ptrido Cheiji Mgram Abenh Tvenb Trubns Mgyps Mcanmi Cimsa Pb-01 Pb-03 Afumi Nfisc Aclav Aorige Aterd Pchry	- LNLNFFKNLSD LNLNFFKNLSD LNLNFFKNLSD LNLNFFKNLSD	

DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEVFSTTSQDK

DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEVFSTTSQDK

113
DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEVFSTTSMDK

114
DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEVFSTMSLDK

115
DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEVFSTMSLDK

116
DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEVFSTMSQDK

117
DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKETYSNVSQAK

118
DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKETYSNVSQDK

119
DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEIFSTUSQDK

110
DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEIFSTUSQDK

110
DSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEIFSTUSQDK

111
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112
NSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEIFSTUSQDK

113
NSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEVFSNVSLDR

115
NSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEVFSNVSLDR

116
NSKPALTRRQELNRQAQRTHRERKELYIKALEDEVLRLKEVFSNVSLDR

117
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118
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119
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111
DSKPALTRRQELNRQAQRTHRERKELYIKALEQEVLRLKEVFSNVSLDR

111
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112
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113
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114
DSKPALTRRQELNRQAQRTHRERKENTIKALEQEVIRLKETRASTTRER

115
DSKPALTRRQELNRQAQRTHRERKENTIKALEQEVIRLKETRASTTRER

116
DSKPALTRRQELNRQAQRTHRERKENTIKALEQEVIRLKETRASTTRER

117
DSKPAQTRRQELNRQAQRTHRERKENTIKALEQEVIRLKETRASTTRER

118
DSKPAQTRRQELNRQAQRTHRERKENTIKALEQEVIRLKEMFAQGERER

119
DSKPAQTRRQELNRQAQRTHRERKENTIKALEQEVIRLKEMFAQGERER

119
DSKPAQTRRQELNRQAQRTHRERKENTIKALEQEVIRLKEMFAQGERER

119
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119
DSKPAQTRRQELNRQAQRTHRERKENTIKALEQEVIRLKEMFAQGTERER

111
DSKPAQTRRQELNRQAQRTHRERKENTIKALEQEVIRLKEMFAQGTERER

112
DSKPAQTRRQELNRQAQRTHRERKENTIKALEQEVIRLKEMFAQTTELEGA

118
DSKPAQTRRQELNRQAQRTHRERKENTIKALEQEVIRLEREGYATDIEGA

119
DSKPAQTRRQELNRQAQRTHRERKENTIKALEQEVIRLEREGYATDIEGA

119
DSKPALTRRQELNRQAQRTHRERKENTIKALEQEVIRLEREGYATDIEGA

119
DSKPALTR Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sšcle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr Ttons Mgyps Mcani Cimmi Cposa Pb-01 Pb-03 Aderm Afumi Nfisc Aclav Aflav Aoryz Anige Aterr Anidu Pchry Pmarn Tstip

B1 -B2 Trees Tvire Tatro Vdahl Moryz Tterr 147 Ncras 154 Ntetr 154 Ndisc Foxys Fvert 161 Fgram 162 158 Sscle Ptrit Snodo Chete Mfiji 156 141 Mgram Abenh Tverr Trubr 154 MQQKQALEELRDENRMLKEILASHGINFEAELERRGAPVQST----PQESSYGGSVAPSL 174
MQQKQALEELRDENRMLKEILASHGINFEAELERRGAPVQST----PQESSYGGSVAPSL 174
MQQKQTLEEVKEENRILKEILASHGINFEAELERRSAPVQST----PQESSYGGSISASH 191
MQQRQNLEELKEENRVLKEVLACHGINVEAELERRKIAIQNT----PQESSYGGSTT--- 161
HQQRQTLESQKEENRILREILLSHGFNVDAELEQRRGMTRAG----SQRS-YQESSAQSH 182
HQQRQTLESQKEENRILREILLSHGFNVDAELEQRRGMTRAG----SQRS-YQESSAQSH 182 Ttons Mgyps Mcani Cimmi Cposa HQQRQTLESQKEENRILREILLSHGFNVDAELEQRRGMTRAG----SQRS-YQESSAQSH 182
QQQKKILQEQKDENAMLRQLLTAHGVPFEAELERRKASLRSGN-NRAYTSALVGRTSQAH 159
QQQKKILQEQKDENAMLRQLLTAHGVPFEAELERRRASLRSGN-NRAYTSASVGRTTQAH 153
QQQRRVLQEHRDENILLKQILASHGIPFEAELEQRKLALRSGA-RHAHTDSFAGSTAHSH 155
VQHREMLQTVNDENAILKELLTAHGIQFEADLERRRAERRSAG-RGFQSSPL--AGSSVV 169
VQHREMLQTVNDENAILKELLTAHGIQFEADLERRRAERRSAG-RGFQSSPL--AGSSVV 139
VQHRDMIQAVNEENAFLKEILVAHGIQYEPELERRRAERP----RFQQSSPF--ASSSVA 152
HQHREMVRSLSEENNILKEILAAHGISYEAEVERRKAERTSTNATYQSSPF--ASSSVG 177
HOHREMVRSLSEENNILKEILAAHGISYGAEVERRKAERTSTNATYQSSPF--ASSSVG 177
VQHRDMVQSLSDENAILKDILTAHGINYEPEVERRKAERPTIG---YQSSPF--ASSSVG 174
HQHREMIQSLSDENRILKEILAAHGIQFEPELERRKAERPHPG--YHQSSPF--ASSSVG 176
HQHREMANSISEENNMLKEILVAHGINYEPEVERRKAERPHPG--YHQSSPF--ASSSVG 178
RQHKEMMHSIBERSENNMLKEILVAHNINYDAELERRRAERPMMG--GFDSSPV-GAGSVG 182 Pb-01 Pb-03 Aderm Afumi Nfisc Aclav Aflav Aoryz Anige Aterr **Anidu** ROHKEMMHSIREENEILKEILAANGIQYEADLERRRAERPPMM - AFQSSPYTVAGSSTT 163 QQQQETIQSLRTENNRLMGILKECGIPVQAQVEKETPEAIN---LAPGG-SFTSGPSSVA 184 KQQQEMVQSLRTENNRLMGILKECGIPVQPQVEIETQETMN---AQLGATSYTVGTSSVA 173 Pchry Pmarń Tstip

	B2
Trees	AHGSQGGFSPAGTSHSTSMSMSPP 185
Tvire Tatro	APGSQSGFSPVGTSHSTSMSMSP 180 AHGSQGGFSPTGMSOSTGMSMSP 175
Vdahl	AHGSQGGFSPTGMSQSTGMSMSP
Moryz Tterr	GGGPASSHTSAFTPSPLASDTANSQQYSR 176 MAGSYIPASSNTTALTPPPLSASNG-SHGGGG 188
Ncras	MLGSESYLPGGPSSQTTFPSPPSS
Ntetr Ndisc	MLGSESYLPGGPSSQTTFPSPPSST
Foxys	TAP 186
Fvert	TAP
Fgram Sscle	VPT SSSTFSPPPLSHSSNSNPNSMN 183
Ptrit Snodo	GSASTGYTSPPTNGSASHDGMGGQG217 GSASTGYTSPPSFQHRGSISHDSMGQPP232
Chete	GSASTGYTSPPTRGSASHDGMSSQP
Mfiji Mgram	ASESTGFSPPPPTVPGQMPMPQG
Abenh	PQIAPDLGSMNYLGTPETSISGRSPGTTT158
Tverr Trubr	PQIAPDIGSMNYLGTPETSISGRSPGTTT
Ttons	SQIAPDI 203
Mgyps Mcani	SQTAPDM ASMNYLGTPDTSISGRSPGTTI 220 IQTAPDMGSMNYLGTPETSISAGRSPGTTT 191
Cimmi	SAGYPSGTHYMTPDTTVSAGRSPGAPG 209
Cposa Pb-01	SAGYPSGTHYMTPDTTVSAGRSPGAPG209 SQSHSQGFTRGGDPPSATPSSIMSAISPGTGS191
Pb-01 Pb-03	SQSHSHVPSHSHSQGFTGGGNPPTSTPSTIMSAISPGTGS 193
Aderm Afumi	APSQAPSQAHSHSLSQGFLGDGTYPTATP-TTVSTVSPGTGS 196 SQAPAALAASDGNTYTTPPTTVSNVSTDVSPLANGMER 207
Nfisc	SQAPAALAASUGNTTTPPTTVSNVSTDVSPLANGMER 207
Aclav Aflav	SQGTGPTSNSHTHATPPTTISTLSSDVSPLANGMER 189 SOPTAVAOSVPSTOHAYTTPPTTISAPSSSLSPIVNGIEH 217
Antav Aoryz	SOPTAVAOSVPSTOHAYTTPPTTISAPSSSLSPIVNGIEH 217
Anige	SÓPTGVAPSNPSTŇNMYTTPPTTVSASLSPITTGIEQ 211 SOPNGIAPSASNVYTTPPTTVSASS-GVSPSVNGSTNGVDVSPTPHVSN 224
Aterr Anidu	SQTGIASLTAHTYSTPPTTVSSGMSPKFNGVEK 215
Pchry Pmarn	SQTAPMDH 197 SQSAGFQSQPAFLTTPPSTFSSPHSAGDGDE 215
Tstip	SQSAGFQSQPGFLTTPPSTFSSPHSAGGDGDD 205
Trees	C236 ← B3NGADLEQA-GIDFV 207
Tvire	NGADLEQA-GIDFV 207SGADLEQA-GIDFV 202
Tvire Tatro Vdahl	NGADLEQA-GIDFV 207NGADLEQA-GIDFV 207SGADLEQA-GIDFV 202NGVDHEQA-GIDFV 197APNSGSSHGNTPSGQQQQQHPQHGTSQHLPGHY GL PCDDGVSGSRIRQLRGTARP 235
Tvire Tatro Vdahl Moryz	NGADLEQA-GIDFV 207NGADLEQA-GIDFV 207
Tvire Tatro Vdahl Moryz Tterr Ncras	NGADLEQA-GIDFV 207NGADLEQA-GIDFV 207NGADLEQA-GIDFV 207NGADLEQA-GIDFV 207NGADLEQA-GIDFV 202NGVDHEQA-GIDFV 197APNSGSSHGNTPSQQQQQHPQHGTSQHLPGHY GL PCDDGVSGSRIRQLRGTARP 235TPTGHGSLSPHPGGHHQHTNAQHHPRHGAQPLNNPGVDYEQA-GIDFV 223GMSPHSAAYSHGGHQHHPSVQGNPSAGAGVGSHPNQNLNLDYEQA-GIDFV 239TTTSPAYRPPLGGPRDFNTVLGDGAGVMVSKRDPDLDYDQA-GIDFV 224
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys	DNRQQSPAA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle	DNRQQSPAA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr	DNRQLSPAA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr Ttons	DNRQLSPAA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr	DNRQLSPAANGADLEQA-GIDFV 207
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr Ttons Mgyps Mcani Cimmi	DNRQLSPAANGADLEQA-GIDFV 207
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Fvert Fgram Sscle Ptrit Snodo Chete Mfijiam Abenh Tverr Trubr Trubr Mgyps Mcani Cimsa Pb-01	DNRQLSPAA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Koxys Fvert Fgram Sscle Mfiji Snodo Chete Mfiji Abenh Tverr Trubr Trubr Mgyps Mcani Cimmi Cpb-01 Pb-03	DNRQLSPAA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetsc Foxys Fvert Fgrane Ptrit Snodo Chete Mgram Abenh Tverr Truns Mgyps Mcanni Cposa Pb-03 Afumi	DNRQLSPAA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ncras Ntetr Foxert Fgrale Fyrodo Chete Mfijam Abenh Tverr Trubns Mgyps Mcanni Ciposa Pb-03 Adeumi Nfisc	DNRQLSPAA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetsc Foxys Fvert Fgscle Ptrid Snedte Ptrid Mgram Abenr Trubr Ttons Mgyps Cimmi Cposal Pb-01 Aderm Afumi Nfisc Aflav	
Tvire Tatro Vdanl Moryz Tterr Ncras Ntetrc Foxys Fvera Fgrale Ptrido Chetji Mgram Abenh Tverb Truns Mgyps Mcanmi Cpo-01 Afumi Nfisc Aclav Aoryz	
Tvire Tatro Vdahl Moryz Tterr Ncras Ntdisc Foxys Fveram Sscole Ptrid Snode Mfiji Mgram Aberr Trubr Ttons Mgypni Cimmi Cpo-03 Aderm Aflav Aflav Aflav Anige Ater	DNRQLSPAA
Tvire Tatro Vdanyz Tterr Ncras Nterr Ncras Ntetsc Foxys Fvert Fgscle Ptrido Cheiji Mgram Abenr Trubns Mgyps Cimmsa Pb-01 Afumi Cpo-03 Adeumi Afumi Aflav Anige Anige Anidu	DNRQLSPAA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntdisc Foxys Fveram Sscole Ptrid Snode Mfiji Mgram Aberr Trubr Ttons Mgypni Cimmi Cpo-03 Aderm Aflav Aflav Aflav Anige Ater	DNRQLSPAA

		B3 	→ ■ B4
	C272 C280	C303	
Trees	L <i>TL</i> ERPCMAHMPFLVDRASDADG	PCGHALMASCPP	TPFQDLTP 251
Tvire	LTLEKPCMAHMPFLVDRASDADG	APCGHALMASCPP	APFODLTO 246
Tatro	LTLEKPCMAHMPFLVDRASDADG MTLEKPCMNHMPWLLERSSEMGG		
Vdahl Morvz	LAYENPHE KORGTETGG		
Tterr	LTLEKPOMNHLPWMLERNSETGGR	EPCGHALMASCPP	OPFSOLSS 284
Ncras	LTLERPCMEHMTWLLERGTGTEDRA	QREPCGHALMASCPP	ÈPFSÈLSP 272
Ntetr	L <i>TL</i> ERPCMEHMTWLLERGTGTEDRA	QREPCGHALMASCPP	EPFSELSP 273
Ndisc	LTLERPCMEHMTWLLERGVGTEDRA		
Foxys Fvert	L TL ERPCMTHIQFMVERASEPEG L TL ERPCMTHIQFMVERASEPEG		
Fgram	L TL ERPCMTHIQFMVERASEPEG		
Sscle	LTLERPCMDHMOFLVERSSDVDG	EFFSGHALMATCPP	ESDMDMHP 268
Ptrit	L <i>TL</i> ERPCMDHMQFLMVRAHEAD	DNISGHALMATAPP	DAHITNCP 289
Snodo	LTLERPCMDHMQFLMVRAHDAE		
Chete Mfiji	L <i>TL</i> ERPCMDHMQFLMVRAHDAD L <i>TL</i> ERPCMDHMQFLMVRSYNPDGKEFN		
Mgram	LTLERPCMDHMQYLLVRSHNPTGQPHH		
Abenh	L HL EKPCNWHLEFICRR AHDDE	NQEAVSGHSLMASCPT	SSVIANTE 263
Tverr	L QL EKP <mark>C</mark> NWHLEFI <mark>C</mark> RR AHDDE		
Trubr	LHLEKPCNWHLEFLCRR AHDDE		
Ttons	L HL EKP <mark>C</mark> NWHLEFL <mark>C</mark> RR AHDDE L HL EKP <mark>C</mark> NWHMEFL C RR AHDDE	NOEAVSCHTI MATCHT	SSVIANTE 308 SSVIANTE 325
Mgyps Mcani	L HL EKP <mark>C</mark> NWHMEFL <mark>C</mark> RR AHDDE	NOFAVSGHMI MATCPT	PSVIANTE 323
Cimmi	LTLEGQCRDHIERLCRR AHDAE	DODMVAGHILMATCPP	PSVVASAS 315
Cposa	LTLEGOCRDHIERLCRR AHDAE	DODMVAGHILMATCPP	PSVVASAS 315
Pb-01	LSLEQSCRTHMELLCRR AEDDE	EHETISGHVLMASCPP	PTQIVSAE 297
Pb-03 Aderm	LSLEOSCRTHMELLCRR AEDDE LSLEOSCRTHMEFLCRR AEDDA		
Afumi	LTLESPCREHTDYLCRRSITEADD		PSYIANTT 313
Nfisc	LTLESPCREHTDYLCRRSVTEADD	EDMPFSGHALMATCPP	PSYIANTT 284
Aclav	LTLEGPCREHTDYLCRRSITEADD	EDMPFSGHALMATCPP	PSYIANTT 294
Aflav	L TL ESPCREHTDYLCRRSITEADD		
Aoryz	LTLESPCREHTDYLCRRSITEADD LTLESPCREHTDYLCRRSITEADD		
Anige Aterr	LTLESPCREHTDYLCRRSITEADD		
Anidu	LALESPCRDHTDYLCRRSITEADD	EDMPFSGHALMATCPP	PSYIANTT 313
Pchry	LTLEGPCREHTDYLCRRSVTEADD	EDMPFSGHALMATCPP	PSYIAKTT 303
Pmarn Tstip	L <i>KL</i> EAPCRVHTEYLCREAHKDVE L QL ESPCRDHTEYLCREASKDVE	RDAFISGHALMASCPP	PSHIENVP 321 PNHIENVP 311
	: *	** ***	
		B4 ————	
_		B4 ———	
Trees	DTPFGHTHTHHHGD	B4 ———	LTQG 277
Tvire	DTPFGHTHTHHHGD ETPFGNTHTHDHG	B4 ———	LTQG 277 QSQG 268 0G 261
Tvire Tatro	DTPFGHTHTHHHGD ETPFGNTHTHDHG DTPFGSKHTHDHG DTPFG YAHVNG	B4GDGGGEEPGEFHE	LTQG 277 QSQG 268 QG 261 -GOR 297
Tvire	DTPFGHTHTHHHGD	B4GDGGGEEPGEFHE	LTQG 277 QSQG 268 QG 261 -GQR 297 SGQR 280
Tvire Tatro Vdahl Moryz Tterr	DTPFGHTHTHHHGD	B4GDGGGEEPGEFHE	LTQG 277 QSQG 268 QG 261 -GQR 297 SGQR 280 SQNNNNNT 317
Tvire Tatro Vdahl Moryz Tterr Ncras	DIPFGYSN	B4	SGQR 280 SQNNNNNT 317 GGOR 302
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr	DIPFGYSN DIPFSHHQHQL ESPFGHTNTIH ESPFGHTNTIH	B4	SGQR 280 SQNNNNNT 317 GGQR 302 GGQR 303
Tvire Tatro Vdahl Moryz Tterr Ncras	DIPFGYSN	B4GDGGGEEPGEFHP	SGQR 280 SQNNNNNT 317 GGQR 302 GGQR 303 SGOR 329
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert	DIPFGYSN	B4	SGQR 280 SQNNNNNT 317 GGQR 303 SGQR 329 TNQK 272 TNQK 269
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram	DIPFGYSN DIPFSHHQHQL ESPFGHTNTIH ESPFGHNNTIQNLAIGGNSNGDGGAIT GLPFGKTHIPLDG GLPFGKTHIPUDG	B4	SGQR 280 SQNNNNNT 317 GGQR 302 GGQR 303 SGQR 272 TNQK 272 TNQK 279 PSOK 271
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fort Fgram Sscle	DIPFGYSN	B4	SGUR 280 SQNNNNNT 317 GGQR 303 SGQR 329 TNQK 272 TNQK 269 PSQK 271 PKQK 295
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit	DIPFGYSN	B4	SGQR 280 SQNNNNNT 317 GGQR 302 GGQR 329 TNQK 272 TNQK 269 PSQK 271 PKQK 298
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete	DIPFGYSN	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Foxed Sscle Ptrit Snodo Chete Mfiji	DIPFGYSN DIPFSHHQHQL	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram	DIPFGYSN	B4	SGQR 280 SQNNNNNT 317 GGQR 303 SGQR 329 TNQK 272 TNQK 269 PSQK 295 298 263 287
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh	DIPFGYSN	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram	DIPFGYSN DIPFSHHQHQL	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fscale Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr Ttons	DIPFGYSN	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Truns Mgyps	DIPFGYSN	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Snodo Chete Mfiji Mgram Abenh Tverr Trubr Trubr Trubr Thyps Mcani	DIPFGYSN	B4	SGQRR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Sscle Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr Ttons Mgyps Mgcani Cimmi	DIPFGYSN DIPFSHHQHQL	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Snodo Chete Mfiji Mgram Abenh Tverr Trubr Trubr Trubr Thyps Mcani	DIPFGYSN	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ncras Ntets Foxys Fvert Fgram Srcle Srodo Chete Mfiji Mgram Abenh Tverr Trubr Trubr Trubr Mgyps Mcani Cimmi Cposa Pb-01 Pb-03	DIPFGYSN	B4	SGQRR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fscale Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr Ttons Mgyps Mcani Cimmi Cposa Pb-03 Aderm	DIPFGYSN	B4	SGUR 280 SGUNNNNT 317 GGQR 302 GGQR 329 TQQK 272 TNQK 269 PSQK 271 PKQK 295
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ncras Ntetr Soxys Fvert Fsrade Ptrit Snodo Cheti Mgram Abenh Tvrubr Ttons Mgyps Mcani Cimmi Cposa Pb-01 Pb-03 Aderm Afumi	DIPFGYSN	B4	SGUR 280 SGUNNNNT 317 GGQR 302 GGQR 229 TNQK 271 PKQK 295
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fscale Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr Ttons Mgyps Mcani Cimmi Cposa Pb-03 Aderm	DIPFGYSN	B4	SGUR 280 SGUNNNNT 317 GGQR 302 GGQR 329 TNQK 272 TNQK 271 PKQK 295
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fscale Ptrit Snodo Chete Mfiji Mgram Abenh Tverr Trubr Ttons Mgyps Mcani Cimmi Cimmi Cimmi Cimmi Afumi Nfisc Aflav Aflav	DIPFGYSN	B4	SGUR 280 SGUNNNNT 317 GGQR 302 GGQR 329 TNQK 272 TNQK 269 PSQK 271 PKQK 295
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ncras Ntetsc Foxys Fvert Fsscle Ptrit Snodo Cheti Mgram Abenh Tvrubr Ttons Mgyps Mcanni Cposa Pb-01 Pb-03 Aderm Aflav Aoryz	DIPFGYSN	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetrr Ncras Ntetsc Foxys Fvert Fgrane Ptrido Cheijim Mgranh Tverr Ttons Mgyps Mcanni CCposa Pb-01 Pb-03 Adfumi Nfisc Aclav Aflavz Anige	DIPFGYSN	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram Abenr Trubr Ttons Mcani Cimmi Cposa Pb-03 Aderm Afumi Afumi Afuni Aflav Aoryz Anige Aterr	DIPFGYSN	B4	SGUR 280 SGUNNNNT 317 GGQR 302 GGQR 329 TNQK 272 TNQK 271 PKQK 295
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetrr Ncras Ntetsc Foxys Fvert Fgrane Ptrido Cheijim Mgranh Tverr Ttons Mgyps Mcanni CCposa Pb-01 Pb-03 Adfumi Nfisc Aclav Aflavz Anige	DIPFGYSN	B4	SGQR
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ncras Ntesc Foxys Fvert Fscale Sscale Ptrit Snodo Chete Mfiji Mgram Abenh Trubr Ttons Mgyps Cimmi Cimmi Cimmi Cimmi Cimmi Afumi Nfisc Aflav Aflav Aflav Aflav Aflav Anige Anidu	DIPFGYSN	B4	SGQR 280 SGQNNNNNT 317 GGQR 302 GGQR 329 TNQK 272 TNQK 271 PKQK 295

	(C354)
Trees	LDGEITPVMAWGMVLS 313
Tvire Tatro	LDGEITPVMAWGMVLS 304
Vdahl	TWELSKADLGTLLALSKRLNLDGEITPVMAWGMVMA 333
Moryz	LDGEITPVMAWGMVLA 316
Tterr	TNDSNYNVNIDNDGSSTPGTWTLNKGDLATLLDLSRRLNLDGEITPVMAWGMVLA 372
Ncras Ntetr	LDGEITPVMAWGMILA 338TWELSKADLATLLDLSKRLDLDGEITPVMAWGMVLA 339
Ndisc	TWELSKADLATLLDLSKRLDLDGEITPVMAWGMVLA 353
Foxys	LDGEVTPIMSWGMLMS 308
Evert	TWEVPKADLATLLDLSKSIDLDGEVTPIMSWGMLMS 305
Fgram Sscle	LDGEVTPIMSWGILMS 307
Ptrit	LNGEITFVMAWGMVLA 331
Snodo	LDGEITPIMAWAKIIQ 347
Chete	LDGEITPIMAWAKILQ 297
Mfiji	LDHQGEITPVMAWKLIYL 300
Mgram Abenh	DDEITPIMALOLLRN 307
Tverr	DDEITPIMALQLLRN 332
Trubr	DDEITPIMALQLLRN 352
Ttons Mgyps	DDEITPIMALQLLRN 352
Mcani	DDEITPIMALQLLRN 303
Cimmi	DNEITPIMALQSLKN 359
Cposa	DNEITPIMALQSLKN 359
Pb-01 Pb-03	GQQITPIMALQYLKS 341
Aderm	DGQITFIMALQYLKS 343
Afumi	EGQITPIMALQCLKN 357
Nfisc	EGQITPIMALQCLKN 328
Aclav Aflav	EQQITPIMALQCLKN 338DQQITPIMALQCLKN 364
Antav Aoryz	DLPHANLTTLLNLSRQLVTDGQTTPIMALQCLKN 364
Anige	DGQITPIMALQCLKN 357
Aterr	DGQITPIMALQHLKN 371
Anidu	YDLPHANLTTLLNLSRQLVTEGQVTPIMALQALKN 357
Pchry Pmarn	EGQITPIMALQCLKN 347
Tstip	DGQVTPIMILQSLKN 355 : * ** : ::**:*
	D4
	B4
Trees	C382 C397
Trees Tvire	C382 C397 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358
Tvire Tatro	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351
Tvire Tatro Vdahl	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVLEEFEIRDALENAMGAYP 382
Tvire Tatro	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351
Tvire Tatro Vdahl Moryz Tterr Ncras	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKIRCYGFGAVMEEFELRDALENIFSGRPEA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENAMGAYP
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENAMGAYP
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HPRLGEMTPKDFKKLTEELCGKVRCYGFGAVLEEFEIRDALENAMGAYP
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENAMGAYP
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKYRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HPRLGEMTPKDFKKLTEELGKVRCYGFGAVMEEFELRDALENAMGAYP
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKYRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKYRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRLGEMTPKDFKKLTEELSTKIRCYGFGAVMEEFELRDALENAMGAYP
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle	C382 HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKYRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HPRLGEMTPKDFKKLTEELGKVRCYGFGAVMEEFELRDALENAMGAYP
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji	HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKYRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKYRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKYRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HPRLGEMTPKDFKKLTEELGSKVRCYGFGAVMEEFERDALENIFSTKPDSFHQSYSTEY 376 HPRLGELRAEDFARLAEELLGKVRCYGFGAVMEEFEVRDALENIFSTKPDSFHQSYSTEY 376 HPRLAELQLEDFARLTEELGSKVRCYGFGAVMEEFEVRDALENLFSTKPDGRVFEDF 396 HPRLAELQLEDFARLTEELGSKVRCYGFGAVMEEFEVRDALENLFSTKPDGRVFEDF 396 HPRLAELQLEDFARLTEELGSKVRCYGFGAVMEEFEVRDALENLFSTKPDGRVFEDF 422 HPRANELEVUDFRKLSEELVRKVRCYGFGAVMEEFEVRDAIDSVFSGKDSMMGE 362 HPRANELEVUDFRKLSEELVRKVRCYGFGAVMEEFEVRDAIDSVFSGKDSMMGE 362 HPRANELEADDFRKLSEELVRKVRCYGFGAVMEEFEVRDAIDSVFSGKDGMMYE 361 HPRFLEKEEDFKCMSAELLPKVRCYGFGAVMEEFEVRDAIDSVFSGKDGMMYE 361 HPRFLEKEEDFKCMSAELLPKVRCYGFGAVLEEFEVRDAIDSVFSGKDGMMYE 361 HPRFLEKEDFKCMSAELLPKVRCYGFGAVLEEFEVSDALMTVLAGKFSNG-ATPLA- 389 DANFQDLTKDEIEVITTELLAKVRCYGFGAVLEEFEVSDALMTVLAGKFSNG-ATPLA- 389 DANFQDLTKDEIEVITTELLAKVRCYGFGAVLEEFEVSDALMTVLAGKFSNG-SPPIG- 354 NERVRDLSKEDFELIKGELLAKVRCYGFGAVLEEFEVSDALMTVLAGKFSNG-SPPIG- 354 NERVRDLSKEDFELIKGELLAKVRCYGFGAVLEEFEVSDALMTVLAGKFSNG-SPPIG- 354 NERVRDLSKEDFELTKGELLAKVRCYGFGAVLEEFEVSDALMTVLAGKFSNG-SPPIG- 354 NERVRDLSKEDFELTKGELLAKVRCYGFGGAVLEEFEVSDALMTVLAGKFSNG-SPPIG- 354 NERVRDLSKEDFELTKGELLAKVRCYGFGGAVLEEFEVSDALMTVLAGKFSNG-SPPIG- 354
Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit Snodo Chete Mfiji Mgram	HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEA
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Tvire Tatro Vdahl Moryz Tterr Ncras Nteisc Foxys Fvert Fgram Sscle Ptrit Snodo Chetji Mgram Abenh Tverr Ttons Mgyps Mcanmi Ciposa Pb-01 Pb-03 Aderm Afumi Nfisc Aclav Anige Aterr Anidu Pchry	HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDALENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEA
Tvire Tatro Vdahl Moryz Tterr Ncras Ntesc Foxys Fvert Fgram Sscle Ptrit Snodo Chetei Mgram Abenh Tverr Trubr Trubr Trubr Mgyps Mcanni Ciposa Pb-01 Pb-03 Ademmi Nfisc Aclav Aflav Aflav Aflav Aflav Anige Aterr Anidu Pmarn	HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDAIENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEA
Tvire Tatro Vdahl Moryz Tterr Ncras Nteisc Foxys Fvert Fgram Sscle Ptrit Snodo Chetji Mgram Abenh Tverr Ttons Mgyps Mcanmi Ciposa Pb-01 Pb-03 Aderm Afumi Nfisc Aclav Anige Aterr Anidu Pchry	HARFAELAPCDFEKISGELLRKVRCYGFGAVLEEFELRDALENIFSGRPEAMVF 367 HSRFAELESGDFEKLSEELLRKVRCYGFGAVMEEFELRDALENIFSGRPEAMVF 358 HYRFNELAPGDLEKLSEELLRKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEAMVF 351 HSRFYEMKAEDFAKLTEELSTKIRCYGFGAVMEEFELRDALENIFSGRPEA

Trees Tvire Tatro Vdahl Moryz Tterr Ncras Ntetr Ndisc Foxys Fvert Fgram Sscle Ptrit	GGGR 380
Snodo	
Chete Mfiji	AAQQISVH 368
Mgram	
Abenh Tverr	SSLISPPIQSADVLDMYS 384 SSLISPPIQSADVLDMYS 409
Trubr	SSLISPPIOSADVLDMYS 429
Ttons Mgyps	SSLISPPIQSADVLDMYS 429 SSLISPPIQSSEVLDMYS 446
Mcani	SSLISPPIQSAEVLDMYS 417
Cimmi	-YLPFRPAHVAEDYTMYS 434
Cposa	-YLAFRPAHVAEDYTMYS 434 KPLPPIL 408
Pb-01 Pb-03	KPLPPIL 410
Aderm	ASLPATPRORLSDDLMYS 424
Afumi	FSCAGDDTMYS 420
Nfisc Aclav	FS <mark>C</mark> AGDDTMYS 391 MSLAADD 397
Aflav	FSRAGDDTLYS 427
Aoryz	FSRAGDDTLYS 427
Anige	LSHPGDEMMYS 420
Aterr Anidu	GVAFSRHADETMYS 426
Pchry	MSGTADDSMYG 410
Pmarn	PPSRIGDDALYR 431
Tstip	PPSKVGDDALYR 421