

kikkawai	WYHMLITMYGVLILFGALGNTLVVIAVVRKPIMRARNLFIILNLAISDLLLCLVMTPLTL ***:***:*. :***:***:* :*****:***:*****:*****:*****:*****	150
mojavensis	MELLSKFWPYGSCATLCKTIATLQALSIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	229
grimshawi	MEILSKFWPYGSCASLCKMIATLQALSIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	231
virilis	MEILSKFWPYGSCAVLCKTIATLQALSIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	157
elegans	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	197
rhopaloo	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
ficuspfla	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
biarmpes	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
suzuki	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
simulans	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
erecta	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
melanogaster	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
sechelia	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
mauritania	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
takahashi	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
eugracilis	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	204
bipectinata	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	210
anannassae	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	211
serrata	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV	210
kikkawai	MEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIADFDRYQVIVYPTRDLSLQFVGAV **:*:*:*:*:*:* : *** ** *****:*****:*****:*****:*****:*****	210
mojavensis	TILAGIWTLALILASPLFIYKQLINMDMPLMLQKFGVPHRISYCIEDWPMSDGRFYYSIF	289
grimshawi	TILAFIWIWALILASPLFIYKQLINMDMPAVLQDVGPNRISYCIEDWPLSDGRFYYSIF	291
virilis	AILAGIWIWALTLASPLFIYKQLISMDMPVLRQLGVPNRISYCIEDWPLSDGRFYYSIF	217
elegans	TILAGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	257
rhopaloo	TILAGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
ficuspfla	GILVGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
biarmpes	TILAGIWALSLLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
suzuki	MILAGIWALSLLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
simulans	TILAGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
erecta	TILAGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
melanogaster	TILAGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
sechelia	TILAGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
mauritania	TILAGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
takahashi	TILAGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
eugracilis	TILAGIWALSLLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	264
bipectinata	TTLACIWALALLLASPLFIYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	270
anannassae	TTLACIWALALLLASPLFIYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIF	271
serrata	TILACIWLALALLLASPLFIYKELINTDTPALLQQIGLQDRIPYCIEDWPSRNGRFYYSIF	270
kikkawai	TILACIWALALLLASPLFIYKELINTDTPALLQQIGLQDRIPYCIEDWPSRNGRFYYSIF * . ** *:* *****:***:*. : * :** :* . . * :***** :*****	270
mojavensis	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQC-SSQRKTERGRMRKRTNRLISIAI	348
grimshawi	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQC-SSQRKVERGRMRKRTNRLISIAI	350
virilis	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQ-SSQRKVERGRMRKRTNRLISIAI	276
elegans	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	317
rhopaloo	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKSERGRMRKRTNCLISIAI	324
ficuspfla	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
biarmpes	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
suzuki	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
simulans	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
erecta	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
melanogaster	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
sechelia	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
mauritania	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
takahashi	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
eugracilis	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	324
bipectinata	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	330
anannassae	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	331
serrata	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI	330
kikkawai	SLCVQYLVPILIVSVAYFGIYNKLSRITVVAVQAASAQRKVERGRMRKRTNCLISIAI *****:***:*****:*****:*****: * . *:* *****:*** *****:	330
mojavensis	IFGVSWLPLNFFNLVADLQHPASVTPRMIVAYAIChMIGMSSACSNPLLYGWLNDNFRSN	408
grimshawi	IFGVSWLPLNFFNLVADLQHPASVTPRMLVAYAIChMIGMSSACSNPLLYGWLNDNFRSN	410
virilis	IFGVSWLPLNFFNLVADLQHPASVTPRMLVAYAIChMIGMSSACSNPLLYGWLNDNFRSN	336
elegans	IFGVSWLPLNFFNLVADMERS-PVTQNMVLVRYAIChMIGMSSACSNPLLYGWLNDNFRSN	376
rhopaloo	IFGVSWLPLNFFNLVADMERS-PVTQNMVLVRYAIChMIGMSSACSNPLLYGWLNDNFRKE	383

ficuspfla	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFRKE	383
biarmpes	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFRCS	383
suzuki	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFRCN	383
simulans	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFRKE	383
erecta	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFR--	381
melanogaster	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFR--	381
sechelia	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFR--	381
mauritania	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFR--	381
takahashi	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFRKE	383
eugracilis	IFGVSWLPLNFFNLYADMERS-PVTQSM LVRYAICHMIGMSSACSNPLLYGWLNDNFRKE	383
bipectinata	IFGVSWLPLNFFNLYADMQQS-PVTQNML VKYAICHMIGMSSACSNPLLYGWLNDNFR--	387
anannassae	IFGVSWLPLNFFNLYADMQQS-PVTQNML VKYAICHMIGMSSACSNPLLYGWLNDNFR--	388
serrata	IFGVSWLPLNFFNLYADMQRP-VMTQKML VAYAVCHMIGMSSACSNPLLYGWLNDNFRKE	389
kikkawai	IFGVSWLPLNFFNLYADMQRP-VMTQKML VAYAVCHMIGMSSACSNPLLYGWLNDNFR--	387

*****:*****: : * * * :*****

mojavensis	-----VQAAATR-RRRKHEADLSKGEQLLLGKSATRGLA--	441
grimshawi	-----VQAAARRHRQRKHAHLSKGEQLLLGNP--SC----	440
virilis	-----MQAAARRRRK-----HELQLLGNVQRG----	360
elegans	VHS-----AARRRRKLGAGADLSRGELKLLGPGGAQSGTVG	412
rhopalao	FHELLCLCSEPTNVALNGHTTGCNVQA-ARRRRK--LGNLSRGELKLLGPGGAQSGTAG	440
ficuspfla	FHELLCRCSEPTNVALNGHTTGCNVQAAARRRRK--LGADLSKGEKLLGPGGAQSGTVG	441
biarmpes	V-----QAARRRRK--LGGDLKGEKLLGPGGAQSGTVG	416
suzuki	V-----QAARRRRK--LGGDDSKGEKLLGPGGAQSGTVG	416
simulans	FQELLCRCSD-TNVALNGHTTGCNVQAAARRRRK--LGAELSKGEKLLGPGGAQSGTAG	440
erecta	-----CNVQAAARRRRK--LGAELSKGEKLLGPGGAQSGTAG	417
melanogaster	-----CNVQAAARRRRK--LGAELSKGEKLLGPGGAQSGTAG	417
sechelia	-----CNVQAAARRRRK--LGAELSKGEKLLGPGCAQSGTAG	417
mauritania	-----CNVQAAARRRRK--LGAELSKGEKLLGPGGAQSGTAG	417
takahashi	FQELLCRCSD-TNVALNGHTTGCNVQAAARRRRK--LGADLSKGEKLLGPGGAQSGTVG	440
eugracilis	FQELLCRCSD-TNVALNGHTTGCNVQAAARRRRK--LGADLSKGEKLLGPGGAQSGTVG	440
bipectinata	-----CNVQAAARRR-RKLGDLTKGELKLLGKGGASQCGG	424
anannassae	-----CNVQAAARRR-RKLGDLTKGEKLLGKGGASQCGG-	424
serrata	FQELLCRCSEPTNVALNGHTTGCNVQAAARRR-RKLGTDLSKGDLLKLLGQSGAQSGAP-	447
kikkawai	-----CNVQAAARRR-RKLGTDLSKGEKLLGQSGAQSGAP-	423

* * * : :***

mojavensis	-----TSDGDCGGVSI AATDFNAR----NG TRSAV TESVALTE-NPMPSELIILAPP--	489
grimshawi	-----ATDGDICGGVSI AATEFNTR-HTVNG TRSCIT ESVALTE-NPMPTEMTTLVPRLO	493
virilis	-----ASDGDCLGGMSI AATEFNTR-HTVNG TRSAV TESVALTE-SPMPSEM TTLVPR--	411
elegans	-----GEGVTGLAATDFMTGGHAGGLRS AITESVALTE--NMPSEVTQLMPRLE	460
rhopalao	-----GEGGLGMAATDFMTG-HHEGGLRS AITESVALTE--NMPSEVTKLMRLE	487
ficuspfla	-----GE-GGLAATDFMTG-HQEGGLRS AITESVALTEH-QVPSEVTKLMRLE	487
biarmpes	-----GGE-GGLAATDFMTG-HQEGGLRS AITESVALTDHNPVPEVTKLMRLE	464
suzuki	-----GGE-GGLAATDFMTG-HQEGGLRS AITESVALTDHNPVPEVTKLMRLE	464
simulans	-----GE-GGLAATDFMTG-HHEGGLRS AITESVALTDHNPVPEVTKLMR--	485
erecta	-----GE-GGLAATDFMTG-HHEGGLRS AITESVALTDHNPVPEVTKLMR--	462
melanogaster	-----GE-GGLAATDFMTG-HHEGGLRS AITESVALTDHNPVPEVTKLMR--	462
sechelia	-----GE-GGLAATDFMTG-HHEGGLRS AITESVALTDHNPVPEVTKLMRLE	464
mauritania	-----GE-GGLAATDFMTG-HHEGGLRS AITESVALTDHNPVPEVTKLMR--	462
takahashi	-----GE-GGLAATDFMTG-HQEGGLRS AITESVALTDHNPVPEVTKLMRLE	487
eugracilis	-----GD-GGLAATDFMTG-HQEGGLRS AITESVALTDHNPVPEVTKLMRLE	487
bipectinata	ASTFGDGGGPDGGCSMAATDFMTG-NPEYGLRS AITESVALTE-NPMPSEVTKLMRLE	482
anannassae	-----GGCGSMAATDFMTG-NPECGLS AITESVALTE-NPMPSEITKLMR--	469
serrata	-----GG--GAGGGSMAATDFMTG-HQECGLRS AITESVALTE-NPMPSEVTKLMRLE	497
kikkawai	-----GG---AGGGSMAATDFMTG-HQECGLRS AITESMALTE-NPMPSEVTQLMPRLE	472

:***: * * * :***:***: :*: * *

mojavensis	--	489
grimshawi	QY	495
virilis	--	411
elegans	QY	462
rhopalao	QY	489
ficuspfla	QY	489
biarmpes	QY	466
suzuki	QY	466
simulans	--	485
erecta	--	462
melanogaster	--	462
sechelia	QY	466
mauritania	--	462

takahashi	QY	489
eugracilis	QY	489
bipectinata	QY	484
anannassae	--	469
serrata	QY	499
kikkawei	QY	474

> melanogaster [AAF51909.3](#)

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1 miismnqtep aqladgehls gyassnsvr ylddrhpldy ldlgtvhaln ttaintsdln
  61 etgsrpldpv lidrflsnra vdspwyhmli smygvlivfg algntlvvia virkpimrta
 121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
 181 aiafdryqvi vyptrdslqf vgavtilagi walallasp lfvykelint dtpallqqig
 241 lqdtipycie dwpsrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqas
 301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
 361 igmssacsnp llygwlnndf rcnvqaaarr rrlglaelsk gelkllgpgg aqsgtaggeg
 421 glaatdfmtg hhegglsai tesvaltdhn pvpsevtklm pr
```

> erecta [XP_015009571.1](#)

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1 miismnqtea aqlaagehlg gyassnsvr ylddrhpldy ldlgtvhaln ttaintseln
  61 etgsrpldpv lidrflsnra vdspwyhmli smygvlivfg algntlvvia virkpimrta
 121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
 181 aiafdryqvi vyptrdslqf vgavtilagi walallasp lfvykelint dtpallqqig
 241 lqdtipycie dwpsrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqas
 301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
 361 igmssacsnp llygwlnndf rcnvqaaarr rrlglaelsk gelkllgpgg aqsgtaggeg
 421 glaatdfmtg hhegglsai tesvaltdhn pvpsevtklm pr
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> biarpes [XP_043951464.1](#)

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1 miismnqtep gqlaaaehlg gyassnsgr ylddrhpldy ldlgtihaln ttaintsdln
  61 etgsrpldpv lidrflsnra vdspwyhmli smygvlivfg algntlvvia vvrkpimrta
 121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
 181 aiafdryqvi vyptrdslqf vgavtilagi walsllasp lfvykelint dtpallqqig
 241 lqdtipycie dwptrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqaa
 301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
 361 igmssacsnp llygwlnndf rcsvqaarr rklggdlskg elkllgpgga qsgtvgggeg
 421 glaatdfmtg hhegglsai tesvaltdhn pvpsevtklm prleqy
```

> suzuki [XP_036675105.1](#)

```
1 miismnqtep gllatgehlg gyassnsgr ylddrhpldy ldlgtihaln ttaintsdln
  61 etasrpldpv lidrflsnra vdspwyhmli smygvllifg algntlvvia vvrkpimrta
 121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
 181 aiafdryqvi vyptrdslqf vgavmilagi walsllasp lfvykelint dtpallqqig
 241 lqdtipycie dwptrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqaa
 301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
 361 igmssacsnp llygwlnndf rcnvqaarr rklggdskg elkllgpgga qsgtvgggeg
 421 glaatdfmtg hhegglsai tesvaltdhn pvpsevtklm prleqy
```

> sechelia [XP_032578233.1](#)

1 miismnqtep tqlaagehls gyassnsvr ylddrhpldy ldlgtvhaln ttaintsdln
61 etgsrpldpv lidrflsnra vdspwyhmli smygvlivfg algntlvvia virkpimrta
121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
181 aiafdryqvi vpytrdslqf vgavtilagi walallasp lfvykelint dtpallqqig
241 lqdtipycie dwpsrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqas
301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
361 igmssacsnp llygwlnndf rcnvqaaarr rrkлгаelsk gelkllgpcg aqsgtaggeg
421 glaatdfmtg hheglrsai tesvaltdhn pvpsevtklm prleqy

> simulans [XP_039150862.1](#)

1 miismnqtep tqlaagehls gyassnsvr ylddrhpldy ldlgtvhaln ttaintsdln
61 etgsrpldpv lidrflsnra vdspwyhmli smygvlivfg algntlvvia virkpimrta
121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
181 aiafdryqvi vpytrdslqf vgavtilagi walallasp lfvykelint dtpallqqig
241 lqdtipycie dwpsrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqas
301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
361 igmssacsnp llygwlnndf rkefqellcr csdtnvalng httgcnvqaa arrrrklgae
421 lskgelkllg pggagsgtag gegglaatdf mtghheglr saitesvalt dhnvpvsevt
481 klmpr

> takahashi [XP_016993445.2](#)

1 miismnqtep gqlaageqlg gyassnsgr ylddrhpldy ldlgtvhaln ttaintsdln
61 etgsrpldpv lidrflsnra vdspwyhmli tmygvlivfg algntlvvia vvrkpimrta
121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
181 aiafdryqvi vpytrdslqf vgavtilagi walallasp lfvykelint dtpallqqig
241 lqdtipycie dwpsrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqaa
301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
361 igmssacsnp llygwlnndf rkefqellcr csdtnvalng httgcnvqaa arrrrklgad
421 lskgelkllg pggagsgtvq gegglaatdf mtghqegglr saitesvalt dhnvpvsevt
481 klmprleqy

> bipectinata [XP_043068022.1](#)

1 miigmnqtet gplatgdris gyassnsgr ylddrhpldy ldlgsvvsna haalnstats
61 nlsdandtga rpldpvlidr flsnravdsp wyhmlismyg vlivfgalgn tlvviavvrk
121 pimrtarnlf ilnlaisdll lclvtmpltl meilskywfp gscsilckti amlqalcifv
181 stisitaiaf dryqvivvpt rdsdqfvgav ttlaciwala lllasplfiy kelintdtp
241 llqqigfqdt ipfciedwps sngrfyysif slcvqylvpi livsvayfqi ynklsritv
301 vavqaasaqr kvergrmrk tncllisiav ifgvswlpln ffnlyadmqq spvtqnlvk
361 yaichmiggs sacsnpilyg wlndnfrcnv qaaaarrrk lggdltkgel kllgkkgasq
421 cgggastfgd gggpdggcgs maatdfmtgn peyglrsait esvaltenpm psevtklmpr
481 leqy

> rhopaloa [XP_016970622.1](#)

1 miismnqtet gplaagehls gyassnsgr ylddrhpldy ldlgivhaln ttaintseln
61 etgsrpldpv ligrflsnra vdspwyhmli smygvlivfg algntlvvia vvrkpimrta
121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
181 aiafdryqvi vpytrdslqf vgavtilagi walallasp lfvykelint dtpallqqig
241 lqdtipycie dwpsrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqaa
301 saqrksergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqn mlvryaichm

361 igmssacsnp llygwlnndf rkefhellcl cseptnvaln ghttgcnvqa arrrrklgan
421 lsrgeklklg pggagsgtag gegglgmaat dfmtghhegg lrsaitesva ltenmpsevt
481 klmprleqy

> eugracilis [XP_017082328.2](#)

1 miismnqtep gplaagehls gyassnsvr ylddrhpldy ldlgmvhaln ttaintsemn
61 etgsrpldpv lidrflsnra vdspwyhmli smygvlivfg algntlvvia vvrkpimrta
121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
181 aiafdryqvi vyptrdslqf vgavtilagi walslllasp lfvykelint dtpallqqig
241 lqdtipycie dwpsrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqaa
301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
361 igmssacsnp llygwlnndf rkefqellcr csdtnvalng httgcnvqaa arrrrklgad
421 lskgelklkl pggagsgtvg gdgglaatdf mtghqegglr saitesvalt dhnvpvsevt
481 klmprleqy

> ficusphla [XP_017046702.1](#)

1 miismnqtet gqlsagehls gyassgnsvr ylddrhpldy ldlgtvhaln tsamntsdad
61 etgsrpldpv lidrflsnra vdspwyhmli smygvlivfg algntlvvia vvrkpimrta
121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
181 aiafdryqvi vyptrnslqf vgavgilvvi walalllasp lfvykelint dtpallqqig
241 lqdtipycie dwpsrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqaa
301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
361 igmssacsnp llygwlnndf rkefhellcr cseptnvaln ghttgcnvqa aarrrrklga
421 dlskgelklkl gpggagsgtv ggegglaatd fmtghqegg1 rsaitesval tehqvpsevt
481 klmprleqy

> ananassae [EDV43731.2](#)

1 mmiigmnqte sgplatgdrl sgyassgnsq rylddrhp1d yldlgsvvsn ahaalnssan
61 nnfseandtq arpldpvlid rflsnravds pwyhmlismy gvlivfgalg ntlvviavvr
121 kpimrtarnl filnlaisdl llclvtmplt lmeilskywp fgscsilckt iamqalcif
181 vstisitaia fdryqvivyp trdslqfvga vtllaciwal allasplfi ykelintdtp
241 tllqqmgf1d tipfciedwp ssngrfyysi fslcvqylvp ilivsvayfg iynklksrit
301 vvavqaasaq rkvergrmk rtncllisia vifgvswlpl nffnlyadm1 qspvtqnm1v
361 kyaichmig1 ssacsnp1ly gwlnndfrcn vqaaaarr1 klggdltkge qkllgkggas
421 qcggggcgsm aatdfmtgnp ecglrsaite svaltenpmp seitklm1r

> serrata [XP_020798669.1](#)

1 miismnqt1s vplaagdrls gfaaggdnsv rylddrhp1d yldlgsvvtg ahavlnataa
61 nm1selnetgs rpldpvlidr ylsnrvavdsp wyhmlitmyg vlilfgalgn tlvviavvrk
121 pimrtarnlf ilnlaisdl lclvtmpltl meilskywpy gscsilckti amlqalcifv
181 stisitaiaf dryqviv1pt rds1qfv1gav tilaciwvla lllasplfiy kemintetp1q
241 llqqiglqdr ipyciedwps sngrfyysif slcvqylvpi livsvayf1gi ynklrsritv
301 vavqassaqr kvergrmk1r tncllisia1 ifgvswlpln ffnlyadmqr pvmtqkmlva
361 yavchmigms sacsnp1lyg wlnndfrcf1e qellc1rcsep t1nvalnghtt gc1nvqaaaar
421 rrrklgtd1s kgd1kl1gqs gaqsgapggg aggg1smaatd f1mtghqecg1l rsaitesval
481 tenpmpsevt klmprleqy

> kikkawei [XP_017016715.1](#)

1 miislnqtes vplaagdrls gfagggdsv rylddrhpld yldlgsvvtg vhavinatat
61 nmselnetgs rpldpvlidr ylsnnavdsp wyhmlitmyg vlilfgalgn tlvviavvrk
121 pimrtarnlf ilnlaisdll lclvtmpltl meilskywpy gscsilckti amlqalcifv
181 stisitaiaf dryqvivvypt rdslqfvgav tilaciwala lllasplfiy kemintetpq
241 llqqiglqdr ipyciedwps sngrfyysif slcvqylvpi livsvayfqi ynkllksritv
301 vavqassaqr kvergrrmkr tncllisiai ifgvswlpln ffnyadmqr pvmtqkmlva
361 yavchmigms sacsnpllyg wlndnfrcnv qaaaarrrrk lgtldskgel kllgsgaqs
421 gapggagggs maadfamtgh qecglrsait esmaltenpm psevtqlmpr leqy

> mauritania [XP_033166991.1](#)

1 miismnqtet tqlaagehls gyassnsnr ylddrhpldy ldlgtvhaln ttaintsdln
61 etgsrpldpv lidrflsnra vdspwyhmli smygvlivfg algntlvvia virkpimrta
121 rnlfilnlai sdlllclvtm pltlmeilsk ywpygscsil cktiamlqal cifvstisit
181 aiafdryqvi vptrdslqf vgavtilagi walallasp lfvykelint dtpallqqig
241 lqdtipycie dwpsrngrfy ysifslcvqy lvpilivsva yfgiynklks ritvvavqas
301 saqrkvergr rmkrtnclli siaiifgvsw lplnffnlya dmerspvtqs mlvryaichm
361 igmssacsnp llygwlnfn rcnvqaaarr rrrklgaelsk gelkllgpgg aqsgtaggeg
421 glaadfamtg hheglrsai tesvaltdhn pvpsevtklm pr

> elegans [XP_017130917.1](#)

1 miismnqtae hlsgyvsssn sgrylldhrp ldylldgpar alnatavnts emnetgsrpl
61 dpvlidrfls nnavdspwyh mlismygvli vfgalgntlv viavvrkpim rtarnlfiln
121 laisdlllcl vtmpltlmei lskywpygsc silcktiaml qalcifvsti sitaiafdry
181 qvivyptrds lqfvgavtil agiwalalll asplfvykel intdtpallq qigldtipy
241 ciedwpsrng rfyysifslc vqylvpiliv svayfgyink lksritvvav qaasaqrkve
301 rgrmrkrtncll isiaiiifg vswlplnffn lyadmerspv tqnmlvryai chmigmssac
361 snpllygwln dnfrcnvhsa arrrrklgag adlsergelkl lgpqgaqsgt vggegtgl
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> grimshawi [XP_032597472.1](#)

1 miiamnrtef gsqlpnfdss veifkaiarn snfdligerr hlvnysqlna lsdvnanntn
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121 silivfgamg nimvviavlr kplmrtarnl filnlaisdl llclvtmplt lmeilskfwp
181 ygscaslckm iatlqalsif vstisitaiia fdryqvivyp trdslqfvgav vtilafiwil
241 alilasplfi ykqlinmdmp avlqdigvvn risyciedwp lsdgrfyysi fslcvqylvp
301 ilivsvayfg iynklksrit vvtgqsssqr kvergrrmkr tnrlisiai ifgvswlpln
361 ffnyadlqh psavtqrmlv ayaichmigm ssacsnp lly gwlnfnfrsn vqaaasrhrq
421 rkhdahlskg elqllgnpsc atgdgciggv siaatefntr htvngtrsci tesvaltenp
481 mptemttlvp rlqyy

> virilis [XP_002058565](#)

1 mtilllnstn nesnfmpadm dpvlmdqylh nraiespwyh lliamysvli vfgamgnimv
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181 ismdmpvlq rlgvphrisy ciedwplsdg rfyysifslc vqylvpiliv svayfgyink
241 lksritvvtv qsssqrkver grrmkrtnrl lisiiaifgv swlplnffnl yadlqhpsav
301 tqrmlvayai chmigmssac snpllygwln dnfrsnmqaa aarrrrkhel qlngsvqrg
361 asgdclggm siaatefntr htvngtrsav tesvaltesp mpsemttlvp r

> mojavenis [XP 043863318.1](#)

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1 mnrtelgsqi lssaelykal ssdatfdtig esrhlnvypg ldaggaytrn hnydklnsny
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  181 scat1cktia tlqalsifvs tisitaiafd ryqvivyptr dslqfvgavt ilagiwtlal
  241 ilasplfiyk qlinmdmplm lqkfgvphri syciedwpms dgrfyysifs lcvqylvpiv
  301 ivsiayfgiy nklksritvv avqcssqrkt ergrrmqrtn rllisiaiif gvswlplnfi
  361 nlyadmqrps avtprmivay aichmigmss acsnpllygw lndnfrsnvq aaatrrrrkh
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  481 seliilapp
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