



Mojavensis	YAPTLLDVAFDCLQLETIQSGAFSNLTVLRAIYISNAPKLSYLAKNVFEGISDTIEIIR	189
Virilis	YATLLDVAFDCLQLEAIQNGAFSNLTLFRTIYISNAPKLTYPKNVFEIGISDTIEIIR	189
Bipectinata	YAQTLMDVAFTDCLQLELIQDGAFANLKLRLTIYIANAPKLTFLSKDVFVFGISDTVEIIR	190
Ananassae	YAQTLMDVAFTDCLQLELIQDGAFANLKLRLTIYIANAPKLSFLSKDVFVFGISDTVEIIR	190
Kikkawai	YGPTLLDVAFTDCLKLELIQDGAFANLTLRLTIYISNAPKLTFLSKDVFVFGISETVEIIR	215
Serrata	YGPTLLDVAFTDCLKLELIQDGAFANLTLRLTIYISNAPKLTFLSKDVFVFGISETVEIIR	214
Ficusphelia	YGPTLLDVTFTDCLQLELIQDGAFANLTLRLTIYISNAPKLTFLSKDVFVFGISETVEIIR	230
Erecta	YGPTLLDVAFTDCLQLELIQDGAFANLTLRLTIYITNAPKLTFLSKDVFVFGISDTVEIIR	213
Melanogaster	YGSTLLDVAFTDCLQLELIQDGAFANLTLRLTIYITNAPKLTFLSKDVFVFGISDTVDIIR	212
Sechellia	YGSTLLDVAFTDCLQLELIQDGAFANLTLRLTIYITNAPKLTFLSKDVFVFGISDTVDIIR	212
Mauritania	YGSTLLDVAFTDCLQLELIQDGAFANLTLRLTIYITNAPKLTFLSKDVFVFGISDTVDIIR	212
Simulans	YGSTLLDVAFTDCLQLELIQDGAFANLTLRLTIYITNAPKLTFLSKDVFVFGISDTVDIIR	212
Eugracilis	YGPTLLDVAFTDCLQLELIQDGAFANLTLRLTIYITNAPKLTFLSKDVFVFGISDTVEIIR	211
Takahashi	YGPTLLDVAFTDCLQLELIQDGAFANLTLRLTIYITNAPKLTFLSKDVFVFGISDTVEIIR	211
Suzuki	YGPTLLDVAFTDCLQLELIQDGAFANLTLRLTIYITNAPKLTFLSKDVFVFGISDTVEIIR	218
Biarmipes	YGATLLDVAFTDCLQLELIQDGAFANLTLRLTIYITNAPKLTFLSKDVFVFGISDTVEIIR	222
Elegans	YGSTLLDVAFTDCLQLELIQDGAFANLTLRLTIYISNAPKLTFLSKDVFVFGISGVSVEIIR	214
Rhopaloo	YGSSLLDVAFDCLQLELIQDGAFANLALRLTIYISNAPKLTFLSKDVFVFGISGVSVEIIR	211

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Mojavensis	IINSGLTKVDPDLGDLPPYNIQMI DLNNOI SRIDSKSIQVKTQAQLVLANNEITFIDDSA	249
Virilis	IINSGLTSVDPDFGYLPPNNILQMI DLNNOI SRIDSKSIQVKTQAQVLANNDIHFIDDSA	249
Bipectinata	IINSGLTRVDPDLTHLPPYNIQMI DLNNOI TRIDAKSIKVKTAQLILANNDISYVDDSA	250
Ananassae	IINSGLTSVDPDLTHLPPYNIQMI DLNNOI TRIDAKSIKVKTAQLILANNDISYVDDSA	250
Kikkawai	IINSGLTSVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQFILANNDISYVDDSA	275
Serrata	IINSGLTRVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQLILANNDISYVDDSA	274
Ficusphelia	IINSGLTRVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQLILANNDISYVDDSA	290
Erecta	IINSGLTRVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQLILANNEISYVDDSA	273
Melanogaster	IINSGLTRVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQLILTNEISYVDDSA	272
Sechellia	IINSGLTRVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQLILTNEISYVDDSA	272
Mauritania	IINSGLTRVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQLILTNEISYVDDSA	272
Simulans	IINSGLTRVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQLILTNEISYVDDSA	272
Eugracilis	IINSGLTRVDPDLSHLPPNNILQMI DLNNOI TRIDTKSINVKTAQLILANNEISYIDDSA	271
Takahashi	IINSGLTRVDPDLSHLPPNNILQMI DLNNOI TRIDTKSINVKTAQLILANNDISYVDDSA	271
Suzuki	IINSGLTRVDPDLSHLPPNNILQMI DLNNOI TRIDTKSINVKTAQLILANNDISYVDDSA	278
Biarmipes	IINSGLTRVDPDLSHLPPNNILQMI DLNNOI TRIDTKSINVKTAQLILANNDISYVDDSA	282
Elegans	IINSGLTRVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQLILANNDISYVDDSA	274
Rhopaloo	IINSGLTRVDPDLGHLPPHNIQMI DLNNOI TRIDTKSINVKTAQLILANNDISYVDDSA	271

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Mojavensis	FLGSKIAKLSLNDNHLKTEIHPNAFNGIIDITELDLSSSTSLVRLPSAGLQTEVLYIANT	309
Virilis	FLGSKIAKLSLKDNRRLTDVHPNAFYGIIDITELDLSSSTSLVSLPSAGLQTEVLYIINT	309
Bipectinata	FCGSKIAKLSLKENRKLKELHTNAFHGIIDITELDLSSSTIVEMPSAGLQTEALYILNT	310
Ananassae	FFGSKIAKLSLKENRKLKELHTNAFHGIIDITELDLSSSTIVEMPSAGLQTEALYILNT	310
Kikkawai	FFGSKIAKLSLKDNRKLTDMHPNAFNGIIDIAELDLSSSTSLVGLPSVGLQTEALYIMNT	335
Serrata	FFGSKIAKLSLKDNRKLTDMHPNAFNGIIDITELDLSSSTSLVGLPSVGLQTEALYIMNT	334
Ficusphelia	FFGSKIAKLSLQNNRKLKQMHHPNAFDGIIDITELDLSSSTSLVGLPSVGLQNEALYIINT	350
Erecta	FFGSKIAKLSLKENRKLKMMHPNAFDGIIDIAELDLSSSTSLVGLPSAGLQNEALYIQNT	333
Melanogaster	FFGSKIAKLSLKENKQLQMHHPNAFDGIIDITELDLSSSTSLVGLPSAGLQNEALYIQNT	332
Sechellia	FFGSKIAKLSLKENKQLQMHHPNAFDGIIDIAELDLSSSTSLVGLPSAGLQNEALYIQNT	332
Mauritania	FFGSKIAKLSLKENKQLQMHHPNAFDGIIDIAELDLSSSTSLVGLPSAGLQNEALYIQNT	332
Simulans	FFGSKIAKLSLKENKQLQMHHPNAFDGIIDIAELDLSSSTSLVGLPSAGLQNEALYIQNT	332
Eugracilis	FFGSKIAKLSLKDNLKLEMMHPKAFDGIIDITELDLSSSTSLVGLPSVGLQTEALYIQNT	331
Takahashi	FFGSKIAKLSLNDNQLKLEMMHPNAFDGIIDITELDLSSSTSLVGLPSSGLQTEALYIQNT	331
Suzuki	FFGSKIAKLSLNDNLRLEHMHHPNAFDGIIDITELDLSSSTSLVAMPVSVGLQNEALYIQNT	337
Biarmipes	FFGSKIAKLSLNDNLRLEHMHHPNAFDGIIDITELDLSSSTSLVAMPVSVGLQNEALYIQNT	342
Elegans	FFGSKIAKLSLKDNPKLKELHPNAFDGIIDITELDLSSSTSLVGMPSVGLQTEALYIQNT	334
Rhopaloo	FFGSKIAKLSLNDNPKLKELHPNAFNGIIDITALDLSSSTSLIGMPSAGLQTEALYIQNT	331

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Mojavensis	HTLKTIPSIYFNQNLQRAHLTHSFHCCAFQFPPSRHDPQRHAQRMQEVEKWRDQCCKNRDV	369
Virilis	HTLKTIPSIYFNQNLQRAHLTHSFHCCAFQFPPSRHDPKRHAERLQELQKWRQCCKNRDL	369
Bipectinata	HTLKTIPSIYFNRLQRAYLTHSFHCCAFQFPPSRHDPRLHAQRMDEIEKWRQCKGERIS	370
Ananassae	HTLKTIPSIYFNRLQRAYLTHSFHCCAFQFPPSRHDPRLHAQRMLEIEKWRQCKGERIS	370
Kikkawai	HTLKTIPSIYFNRLQRAYLTHSFHCCAFQFPPSRHDPRLHAQRMLEIEKWRQCKNK--GS	393
Serrata	HTLKTIPSIYFNRLQRAYLTHSFHCCAFQFPPSRHDPRLHALRMLEIEKWRQCKNK--CS	392
Ficusphelia	HTLKTIPSIYFNRLQRAYLTHSFHCCAFQFPPSRHDPQRHAERMLEIEKWRQCKSDHGS	410
Erecta	HTLKTIPSIYFNRLQRAYLTHSFHCCAFQFPPSRHDPQRHAERMLEIEKWRQCKSDHGS	393
Melanogaster	HTLKTIPSIYFNRLQRAYLTHSFHCCAFQFPPSRHDPQRHAQRMLEIEKWRQCKSDSGT	392
Sechellia	HTLKTIPSIYFNRLQRAYLTHSFHCCAFQFPPSRHDPQRHAQRMLEIEKWRQCKSDSGS	392

Mauritania HTLKTIPSIYNFRNLQRAYLTHSFHCCAFQFPSRHDPQRHAQRMLEIEKWRKQCKSDSGS 392  
Simulans HTLKTIPSIYNFRNLQRAYLTHSFHCCAFQFPSRHDPQRHAQRMLEIEKWRKQCKSDSGS 392  
Eugracilis HTLKTIPSIYNFRNLQRAYLTHSFHCCAFQFPSRHDPQRHAQRMLEIEKWRKQCKSDSGS 391  
Takahashi HTLKTIPSIYNFRNLQRAYLTHSFHCCAFQFPSRHDPQRHAQRMLEIEKWRKQCKSDSAS 391  
Suzuki HTLKTIPSIYNFRNLQRAYLTHSFHCCAFQFPSRHDPQRHAQRMLEIEKWRKQCKSESVS 397  
Biarripes HTLKTIPSIYNFRNLQRAHLTHSFHCCAFQFPSRHDPQRHAERMLEIEKWRKQCKSDSVT 402  
Elegans HTLKTIPSIYNFRNLQRAYLTHSFHCCAFQFPSRHDPQRHAQRMLEIQKWRQCKSDHVS 394  
Rhopaloo HTLKTIPSIYNFRNLQRAYLTHSFHCCAFQFPSRHDPQRHAQRMLEIEKWRKQCKSDQVS 391  
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Mojavensis HTNYERSLSMS-NLTPLANVSEVQPSGSTINLLAESTPNTYAYMADSTLNNIGIFHEEI 428  
Virilis YRDVKKLKNKTSVKDTAGVHTNQTSGTATDNLLTDAANSYDYMADSTMNIGIFHEEQI 429  
Bipectinata RKERSILNNLKSQSDGYGIFG-SEASPT----DVVSTQFASVDYMADAAMN-LGYFHEEI 424  
Anannassae RRERNIAKKIESQQDDLGLTGGSEALSA----DVLSTPFSSVDYMADAAMN-LGYFHEEI 425  
Kikkawai RKERSLLDNFEAQPEDFGSFGSTEPSVT----EITPYPYASVDYMADS-TN-LGYFHEEQI 447  
Serrata RKERALLDYLEAQPEDFGSFGSTEPSMT----ENTFPPIASIDYMADS-TN-LGYFHEEQI 446  
Ficusphelia RKERSALDGFEGLPEDFGTFGMPEQSGT----DDTSITYASFDYMSDDTLN-KGTFHEKI 465  
Erecta RQERSTLDSLSMPEDFGTFGTDDSDAT----DITPITFVSPDYMADDTMN-KGTFHEKI 448  
Melanogaster RKERSTLDNPFNMPEDFGSFGTDDSDAT----DITPITFASFDYMADDTMN-KGTFHEKI 447  
Secchellia RKERSTLDNSFMPEDFGSFGTDDSDAT----DITPITFASFDYMADDTMN-KGTFHEKI 447  
Mauritania RKERSTLDNSFDMPEDFGSFGTDDSAI----DITPITFASFDYMADDTMN-KGTFHEKI 447  
Simulans RKERSTLDNSFNMPEDFGSFGTDDSDAT----DMTPITFASFDYMADDTMN-KGTFHEKI 447  
Eugracilis RKERSTLDGLDNQPEDFGSFGGSYQSAT----DISPITFSSIDYMADDTMN-KGTFHEKI 446  
Takahashi RKERSTLENGFTLPEDFGTFGTDDSDAT----DIVPIKFASFDYMADDTLN-KGTFHEKI 446  
Suzuki RQERSTLDNAYTMPEDFGTFFESTDESST----DLVPIITFASFDYMADDSLIN-KGTFHEKI 452  
Biarripes RKERSTLENGFTLPEDFGTFGTDDSDAT----DLVPIITFASFDYMADDTLI-KGTFHEKI 457  
Elegans RKERSTVDNLSMPEEFGSFGSTDSAT----DMTSMTYASFDYMSDDTMN-KGTFHEKI 449  
Rhopaloo RKERSTADNLSVPEEFGSFGMTDQ-----SLDYMSDDTMN-KGTFHEKI 435  
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Mojavensis TINPDDQLAEYCGNFTFRKPHVECYPMPNALNPCEVDMGYQWLRISVWIVVALAVVGNV 488  
Virilis TINPDDQLAEYCGNFTFRNPDIQCFPMPNALNPCEVDMGYQWLRISVWIVVALAVVGNL 489  
Bipectinata TLNPDEQFAEFCGNFTFRKPNVECYPMPNALNPCEVDMGYQWLRISVWIVVALAVVGNV 484  
Anannassae TINPDEQFAEFCGNFTFRKPSVECYPMPDALNPCEVDMGYQWLRISVWIVVALAVVGNV 485  
Kikkawai TINPDDQSAEFCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 507  
Serrata TINPDDQSAEFCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 506  
Ficusphelia TLNPEDDMTAEFCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 525  
Erecta VLNPEDDSSAELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 508  
Melanogaster ILNPEDDSSAELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 507  
Secchellia ILNPEDDSSAELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 507  
Mauritania ILNPEDDSSAELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 507  
Simulans ILNPEDDSSAELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 507  
Eugracilis TLNPEDDMSAELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 506  
Takahashi TLDPADDMSAELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 506  
Suzuki TLNPEDDMSAELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 512  
Biarripes ILNPEDDMSAELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 517  
Elegans TLNPEDDI-DELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 508  
Rhopaloo TLNPEDDI-DELCGNFTFRKPNIECYPMPNDLNPCEVDMGYQWLRISVWIVVALAVVGNV 494  
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Mojavensis AVLTVILSIKSESPVPRFLICHLAFADLCLGLYLLLIA SIDAHSMGEYFNYAFDWQYGL 548  
Virilis AVLTVILSIKSESPVPRFLICHLAFADLCLGLYLLLIA SIDAHSMGEYFNYAFDWQYGL 549  
Bipectinata AVLTVILSIRPEITPVARFLMCHLAFADLCLGLYLLVVA SIDAHSMGEYFNYAFDWQYGL 544  
Anannassae AVLTVILSIRPEITPVARFLMCHLAFADLCLGLYLLVVA SIDAHSMGEYFNYAFDWQYGL 545  
Kikkawai AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA SIDAHSMGEYFNYAFDWQYGL 567  
Serrata AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA SIDAHSMGEYFNYAFDWQYGL 566  
Ficusphelia AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA SIDAHSMGEYFNYAFDWQYGL 585  
Erecta AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA CIDAHSMGEYFNYAFDWQYGL 568  
Melanogaster AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA CIDAHSMGEYFNYAFDWQYGL 567  
Secchellia AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA CIDAHSMGEYFNYAFDWQYGL 567  
Mauritania AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA CIDAHSMGEYFNYAFDWQYGL 567  
Simulans AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA CIDAHSMGEYFNYAFDWQYGL 567  
Eugracilis AVLTVILSIRPETTPVPRFLMCHLAFADLCLGVYLLVVA SIDAHSMGEYFNYAFDWQYGL 566  
Takahashi AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA SIDAHSMGEYFNYAFDWQYGL 566  
Suzuki AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA SIDAHSMGEYFNYAFDWQYGL 572  
Biarripes AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA SIDAHSMGEYFNYAFDWQYGL 577  
Elegans AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA SIDAHSMGEYFNYAFDWQYGL 568  
Rhopaloo AVLTVILSIRPESTPVPRFLMCHLAFADLCLGVYLLVVA SIDAHSMGEYFNYAFDWQYGL 554  
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Mojavensis	GCKIAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWFAITHAM <sup>YLNKRIKLRPAAVIML</sup> MGWIYSIVM	608
Virilis	GCKIAGFLT <sup>VFASHLSIFFTLTIIT</sup> IERWFAITHAM <sup>YLNKRITL</sup> RQAAGIMLTGWIYSIIM	609
Bipectinata	GCKVAGFLT <sup>VFASHLSVFTLTLIT</sup> IERWVAITQAM <sup>YLNKRIRLR</sup> SASIMLGGWIYSMVM	604
Ananassae	GCKVAGFLT <sup>VFASHLSVFTLTLIT</sup> IERWVAITQAM <sup>YLNKRIRLR</sup> SASIMLGGWIYSMVM	605
Kikkawai	GCKAAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRQAALIML</sup> GGWLYSMFM	627
Serrata	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKMRQAALIML</sup> GGWLYSMVM	626
Ficusphelia	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERCMAITQAM <sup>YLNHRIKLRPAAIIML</sup> CGWIYSMLM	645
Erecta	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRPAALIML</sup> GGWIYSMLM	628
Melanogaster	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRPAALIML</sup> GGWIYSMLM	627
Sechellia	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRPAALIML</sup> GGWIYSMLM	627
Mauritania	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRPAALIML</sup> GGWIYSMLM	627
Simulans	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRPAALIML</sup> GGWIYSMLM	627
Eugracilis	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRPAALIML</sup> GGWIYSMFM	626
Takahashi	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRPAALIML</sup> GGWIYSMFM	626
Suzuki	GCKAAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRPAALIML</sup> GGWIYSMFM	632
Biarmipes	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLNHRIKLRPAALIML</sup> GGWIYSMFM	637
Elegans	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLTHRIKLRQASIML</sup> GGWIYSVLM	628
Rhopaloo	GCKVAGFLT <sup>VFASHLSVFTLTVIT</sup> IERWLAITQAM <sup>YLTHRIKLRPASFIML</sup> GGWIYSILM	614

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Mojavensis	SSLP <sup>LLGISNYSSTSICLPMEKRDYDSIYLVLILGCN</sup> FLAFTIIAICYSQIYLSLGKET	668
Virilis	SSLP <sup>LFGISNYSSTSICLPMEIRDIYDSIYLILILGCN</sup> FVAFTIIAICYSQIYLSLGQET	669
Bipectinata	SSLP <sup>LFGISNYSSTSICLPMEVRDSFDTVYLIAILGCN</sup> GVAFFIIAVCYAQIYLSLGRET	664
Ananassae	SSLP <sup>LFGISNYSSTSICLPMEVRDFTDVTYLIAILGCN</sup> GVAFFIIAVCYAQIYLSLGRET	665
Kikkawai	SSLP <sup>LFGISNYSSTSICLPMENRDAFDTMYLIAAILGCN</sup> GVAFFIIAVCYAQIYLSLGRET	687
Serrata	SSLP <sup>LFGISNYSSTSICLPMENRDAFDTMYLIAAILGCN</sup> GVAFFIIAVCYAQIYLSLGRET	686
Ficusphelia	SSLP <sup>LFGISNYSSTSICLPMENRDVFTDVTYLIAAILGCN</sup> GVAFFIIAVCYAQIYLSLGRET	705
Erecta	SSLP <sup>LFGISNYSSTSICLPMENRDVYDTVYLIAAILGCN</sup> GVAFFIIAVCYAQIYLSLGRET	688
Melanogaster	SSLP <sup>LFGISNYSSTSICLPMENRDVYDTVYLIAAILGSN</sup> GVAFFIIAVCYAQIYLSLGRET	687
Sechellia	SSMP <sup>LFGISNYSSTSICLPMENRDVYDTVYLIAAILGSN</sup> GVAFFIIAVCYAQIYLSLGRET	687
Mauritania	SSMP <sup>LFGISNYSSTSICLPMENRDVYDTVYLIAAILGSN</sup> GVAFFIIAVCYAQIYLSLGRET	687
Simulans	SSMP <sup>LFGISNYSSTSICLPMENRDVYDTVYLIAAILGSN</sup> GVAFFIIAVCYAQIYLSLGRET	687
Eugracilis	SSMP <sup>LFGISNYSSTSICLPMENRDVYDTVYLVAIMVCN</sup> GVAFFIIAVCYAQIYLSLGRET	686
Takahashi	SSLP <sup>LFGISNYSSTSICLPMENRDYDTVYLIAIMVCN</sup> GVAFFIIAVCYAQIYLSLGRET	686
Suzuki	SSLP <sup>LFGISNYSSTSICLPMENRDVYDTVYLIAIMVCN</sup> GVAFFIIAVCYAQIYLSLGRET	692
Biarmipes	SSLP <sup>LFGISNYSSTSICLPMENRDYDTVYLIAIMVCN</sup> GVAFFIIAVCYAQIYLSLGRET	697
Elegans	SSLP <sup>LFGISNYSSTSICLPMEIRDGFDTAYLIAAILACN</sup> GVAFTIIAVCYAQIYLSLGRET	688
Rhopaloo	SSLP <sup>LFGISNYSSTSICLPMEIRDVFTVYLIAAILACN</sup> GVAFFIIAVCYAQIYLSLGRET	674

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Mojavensis	RRARQNLGEMSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	728
Virilis	RRARRNPPGEMSVAKKMALLVFTNFACWSPIAFFGLTALAGCPLINVTKSKILLVFFYPL	729
Bipectinata	RHARQNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGFPLINVTKSKILLVFFYPL	724
Ananassae	RHARQNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	725
Kikkawai	RQARQNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGFPLINVTKSKILLVFFYPL	747
Serrata	RQAHQNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGFPLINVTKSKILLVFFYPL	746
Ficusphelia	RQARHNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	765
Erecta	RQAHQNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	748
Melanogaster	RQAHQNSPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	747
Sechellia	RQAHQNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	747
Mauritania	RQTHQNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	747
Simulans	RQAHQNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	747
Eugracilis	RQARHNNPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	746
Takahashi	RQAHHNSPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	746
Suzuki	RQAHHNSPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	752
Biarmipes	RQAHQNSPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGYPLINVTKSKILLVFFYPL	757
Elegans	RQARQNSPGELSVAKKMALLVFTNFACWSPIAFFGLTALAGFPLINVTKSKILLVFFYPL	748
Rhopaloo	RQSRQNNPGEMSVAKKMALLVFTNFACWSPIAFFGLTALAGFPLINVTKSKILLVFFYPL	734

\*:\*:\*:\* \*:\*:\*:\* \*:\*:\*:\* \*:\*:\*:\* \*:\*:\*:\* \*:\*:\*:\* \*:\*:\*:\* \*:\*:\*:\*

Mojavensis	NSCADPYLYAILTSQYRQDLLTLLSKLGLCRQAL <sup>KYKHS</sup> SDSMHGTSHYTIRGSIEREHS	788
Virilis	NSCADPYLYAILTSQYQDLLTFLSKLGLICRQNAL <sup>KYKHS</sup> DSLHGTSHYTIRGSIQQSS	789
Bipectinata	NSCADPYLYAILTAQYRQDLYTLLSKLGLCRQNA <sup>VNSKDN</sup> SSGMGTTRFTIH----RHSS	780
Ananassae	NSCADPYLYAILTAQYRQDLYTLLSKLGLCRQNA <sup>VNSKDN</sup> SSGMGTTRFTIH----RHSS	781
Kikkawai	NSCADPYLYAILTSQYRQDLLTLLSKLGLCRQNA <sup>LNYKHS</sup> SSAQATTRFTIH----RHSS	803
Serrata	NSCADPYLYAILTSQYRQDLLTLLSKLGLCRQNA <sup>LNYNHSS</sup> SAPATTRFTIH----RHSS	802
Ficusphelia	NSCADPYLYAILTSQYRQDLFTLLSKLGLCRQSA <sup>LKYKDSL</sup> SGQATTRFTIHGSIQRHSS	825
Erecta	NSCADPYLYAILTSQYRQDLFTLLSKLGLCRQSA <sup>LKYKDSL</sup> SGQATTRFTIHGSIQRHSS	808
Melanogaster	NSCADPYLYAILTSQYRQDLFTLLSKLGLCRQSA <sup>LKYKDSL</sup> SGQATTRFTIHGSIQRHSS	807
Sechellia	NSCADPYLYAILTSQYRQDLFTLLSKLGLCRQSA <sup>LKYKDSL</sup> SGQATTRFTIHGSIQRHSS	807
Mauritania	NSCADPYLYAILTSQYRQDLFTLLSKLGLCRQSA <sup>LKYKDSL</sup> SGQATTRFTIHGSIQRHSS	807

Simulans	NSCADPYLYAAILTSQYRQDLFTLLSKLGLCRQSALKYKDSLSGQATTRFTIHGSIQRHSS	807
Eugracilis	NSCADPYLYAAILTSQYRQDLFTLLSKLGLCRQSALKYKDSLSGHPTSRFTIHGSIQRHGS	806
Takahashi	NSCADPYLYAAILTSQYRQDLFTLLSKLGLCRQSALKYKDSLSGHATTRFTIHGSIQRHGS	806
Suzuki	NSCADPYLYAAILTSQYRQDLFTLLSKLGLCRQSALKYKDSLSGHATTRFTIHGSIQRHSS	812
Biarmipes	NSCADPYLYAAILTSQYRQDLFTLLSKLGLCRQSALKYKDSLSGHATTRFTIHGSIQRHGS	817
Elegans	NSCADPYLYAAILTSQYRQDLFTLLSKLGLCRQSALKKDGSSSTRGTTRYTINGSIQRHAS	808
Rhopalooa	NSCADPYLYALLTSQYRQDLFTLLSKLGLCRQSALKYKDSSSAHATSRTIHNHSIHRHGS	794

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Mojavensis	VGQKCQKI-VAAEAQNMLRNEDYV	812
Virilis	LCQKPQQE-GAAETQTMLKNEDYV	813
Bipectinata	LTCRIPPALV-ETQKMLTCNEDYV	804
Anannassae	LTCRIPPALV-ETQKMLTYSEEV	805
Kikkawai	LTCKMQAAISV-EAQKMLKNGEDYV	827
Serrata	LTCKMQTVLNA-EAQKMLKNGEDI	826
Ficusphelia	LTCKMQTVMGT-ETQKMLKCGEDYV	849
Erecta	LTCKMQTVMGA-ETQKMLKNSEDYV	832
Melanogaster	LTCKMQTVMGA-ETQKMLKNSEDYV	831
Sechellia	LTCKMQTLMGA-ETQKMLKNSEDYV	831
Mauritania	LTCKMQTVMGA-ETQKMLKNSEDYV	831
Simulans	LTCKMQTVMGA-ETQKMLKNSEDYV	831
Eugracilis	LTCKMQTMT-TETQKMLKNSEDYV	830
Takahashi	LTCKMQTVMGATETQKMLKNSEDYV	831
Suzuki	LTCKMQTVMGT-ETQKMLKSEEV	836
Biarmipes	LTCKMQTVMGA-ESQKMLKNTEDYV	841
Elegans	LTCKMQTVGA-ETQKMLKNGEDYV	832
Rhopalooa	LTSKMQTVISA-ETQKMLKNSEDYV	818

Variants at this putative BBS do not all have 2 S or Ts, some only 1 – meaning the other species do not contain partial BBS codes at this positions

**Melanogaster** [NP 524393.2](#)

```
mekhpslsqr mgttyrprkg lkclsfefqc rlllhlllt slsgrhfvya tsavggalsa
 61 nncdhghgfv dypnltavs laqstdtplt atmprawkc ccwnasnae evecrcegdg
121 lnrvpqtltl piqrliasia glprlrhtgl kvygstlldv aftdclqllel idqgafanlt
181 llrtiyitna pkltflskdv flgisdtvdi iriinsgltr vpdlghlpph nilqmidldn
241 nqitridsks ikvktaqlll tnneisyvdd saffgskiak lslkenkklq mmhpnafdgi
301 iditeldlss tslvglpsag lqniealyiq nthlktips iynfrnlqra ylthsfhcca
361 fqfprhdpq rhaqrmele kwrkqcksds gtrkerstld nfnmpedfg sfggtddsat
421 ditpitfasf dymaddtmnk gtfhekiiln pgddssaalc gnftfrkpn iecypmpndln
481 pcedvmgyqw lrsvwivva lavvgnvavl tvilsirpes tppvprflmch lafadlclgl
541 ylllvacida hsmgeyfnfa ydwqyglgck vagfltvfas hlsvftltvi tierwlaitq
601 amylnhrikl rpaalimlgg wiysmlmssl plfgisnyss tsiclpmenr dvydtylia
661 ilgsvngvafs iavcyaqiy lslgretrqa hqnsppgelsv akkmallvft nfacwspiaf
721 fgltalagyp linvtkskil lvffypnsc adpylyailt sqyrqdlftl lsklglcqqq
781 alkykdsisg qattrftihg siqrhssltc kmqtvmaet qkmlknsedy v
```

**Mauritania** [XP 033166657.1](#)

```
1 mekhpslsqr mdttrprkg lkclsfefqc rlllhlllt slsgrhcvya tsaaggalsa
 61 snchdihghgfv dypnptavs laqstdtplt aamprawkc ccwnasnae evecrcegdg
121 lnrvpqtltl piqrliasia glprlrhtgl kvygstlldv aftdclqllel idqgafanlt
181 llrtiyitna pkltflskdv flgisdtvdi iriinsgltr vpdlghlpph nilqmidldn
241 nqitridsks ikvktaqlll tnneisyvdd saffgskiak lslkenkklq mmhpnafdgi
301 idiaeldlss tslvglpsag lqniealyiq nthlktips iynfrnlqra ylthsfhcca
361 fqfprhdpq rhaqrmele kwrkqcksds gsrkerstld nsfdmpedfg sfggtddsai
421 ditpitfasf dymaddtmnk gtfhekiiln pgddssaalc gnftfrkpn iecypmpndln
481 pcedvmgyqw lrsvwivva lavvgnvavl tvilsirpes tppvprflmch lafadlclgl
541 ylllvacida hsmgeyfnfa ydwqyglgck vagfltvfas hlsvftltvi tierwlaitq
601 amylnhrikl rpaalimlgg wiysmlmssm plfgisnyss tsiclpmenr dvydtylia
661 ilgsvngvafs iavcyaqiy lslgretrqt hqnsppgelsv akkmallvft nfacwspiaf
721 fgltalagyp linvtkskil lvffypnsc adpylyailt sqyrqdlftl lsklglcrqs
781 alkykdsisg qattrftihg siqrhssltc kmqtvmaet qkmlknsedy v
```

**Simulans** [XP 016034243.1](#)

```
1 mekhpslsqr mettrprkg lkclsfefqc rlllhlllt slsgrhcvya tsaaggalsa
 61 snchdihghgfv dypnptavs laqstdtplt aamprawkc ccwnasnae evecrcegdg
121 lnrvpqtltl piqrliasia glprlrhtgl kvygstlldv aftdclqllel idqgafanlt
181 llrtiyitna pkltflskdv flgisdtvdi iriinsgltr vpdlghlpph nilqmidldn
```

241 nqitridsks ikvktaqlil tnneisyvdd saffgskiak lslkenkklq emhpnafdgi  
301 idiaeldlss tslvglpsag lqniealyiq nthtlktips iynfrnlqra ylthsfhcca  
361 fqfpsrhdpq rhaqrmeie kwrkqcksds gsrkerstld nsfnmpedfg sfggtddsat  
421 dmtpitfasf dymaddtmnk gtfhekiiln pdddssaelc gnftfrkpn ecympndln  
481 pcedvmgyqw lrisvwivva lavvgnvavl tvilsiraes tpvprflmch lafadlclgl  
541 ylllvacida hsmgeyfnfa ydwqyglgck vagfltvfas hlsvftltvi tierwlaitq  
601 amylnhrik rpaalimlgg wiysmlmssm plfgisnyss tsiclpmenr dvydtiyli  
661 ilgsngvafs iiavcyaqiy lslgretrqa hqnnpgelsv akkmallvft nfacwspiaf  
721 fgltalagyp linvtkskil lvffypnsc adpylyailt sqyrqdlftl lsklglcrqs  
781 alkykdsisg qattrftihg siqrhssltc kmqtmgaet qkmlknsedy v

Sechellia [XP\\_002041048.1](#)

1 mekhpsmsqr lettcrprkg klclsfefqc rlllhllllt slsgrhcvya tsaaggalsa  
61 snchdihhgf dvypnptavs laqstdtplt aamprsaawc ccwnasnae evecrcegdg  
121 lnrvpqtltl piqrlltiasa glprlrhtgl kvvgstlldv aftdclqlel iqdgafanlt  
181 llrtiyitna pkltflsrsv flgisdtvdi iriinsgltr vpdldghlpph nilqmidldn  
241 nqitridsks ikvktaqlil tnneisyvdd saffgskiak lslkenkkle mmhpnafdgi  
301 idiaeldlss tslvglpsag lqniealyiq nthtlktips iynfrnlqra ylthsfhcca  
361 fqfpsrhdpq rhaqrmeie kwrkqcksds gsrkerstld nsfnmpedfg sfggtddsat  
421 ditpitfasf dymaddtmnk gtfhekiiln pdddssaelc gnftfrkpn ecympndln  
481 pcedvmgyqw lrisvwivva lavvgnvavl tvilsirpes tpvprflmch lafadlclgl  
541 ylllvacida hsmgeyfnfa ydwqyglgck vagfltvfas hlsvftltvi tierwlaitq  
601 amylnhrik rpaalimlgg wiysmlmssm plfgisnyss tsiclpmenr dvydtiyli  
661 ilgsngvafs iiavcyaqiy lslgretrqa hqnnpgelsv akkmallvft nfacwspiaf  
721 fgltalagyp linvtkskil lvffypnsc adpylyailt sqyrqdlftl lsklglcrqs  
781 alkykaslsq qattrftihg siqrhssltc kmqtlmgaet qkmlknsedy v

Erecta [XP\\_001979725.1](#)

1 mekhpslpps qtqtqrrdt crskkglkcl sfefqcrlll hlllltslsg rhcvyamsas  
61 schdihhgf dvypnpttv slgqstdtpq aeampsaawc ccwnasnqv evecrcegdg  
121 lnrvpqtltl piqrlltiasa aglprlrhtg lkvygptlld vaftdclqle liqdgafanlt  
181 llrtiyitna apklftlksd vflgisdtve iiriinsgltr rvpdlghlpph hnilqmidld  
241 nqitridsk sikvktaqli lanneisyvd dsaffgskia klslkenkrl kmhpnafdg  
301 iidiaelds stslvglpsa glqniealyi qnthtlktip siynfrnlqr aylthsfhcc  
361 afqfpsrhdpq rhaqrmeie ekwrkqckse sgsrqrerstl dsslsmpedfg gtfsgtddsa  
421 dditpitfvs pdymaddtmn kgtfhekivl npeddssael cgnftfrkpn iecympndln  
481 ncedvmgyq wlriswivv alavvgnvav ltvilsirpe stpvprflmc hlaafadlclg  
541 lylllvacida hsmgeyfnfa aydwqyglgc kvagfltvfa shlsvftltv itierwlait  
601 amylnhrik lrpaaalimlg gwiysmlmss lplfgisnys stsiclpmen rdvydtvyli  
661 ailgcngvaf siiavcyaqi ylslgretrq ahqnnpgels vakkmallvf tnfacwspia  
721 ffgltalagy plinvtkski llvffypnsc cadpylyail tsqyrqdlft llsklglcrq  
781 salkykdsis qattrftihg gsiqrhsslt ckmqtmgaet tqkmlknsedy yv

Takahashi [XP\\_017013746.2](#)

1 mekhtslprk easessrkg klclsleflfr llfhqllfts lcghpcvyat savgealgas  
61 nchdihhgf dvypnptag qgstdspltv tlpssgwkcc cwnasnqmee vecrcegdgl  
121 nrvpqtltl piqrlltiasa glprlrhtgl kvvgptlldv ftdclqleli qdgafanltl  
181 lrtiyitnap klftlksdvf flgisdtveii riinsgltrv pdlshlpphn ilqmidldnn  
241 qitridtsi kvktaqlila nndisyvdds affgskiakl slndnqkleh mhpnafdgii  
301 diteldlss slvglpssgl qtiealyiqn thtlktipsi ynfrnlqray lthsfhccaf  
361 qfpsrhdpq hakrmreiek wrecksdsas srkerstsen gfempedfgs fgspdeattd  
421 ivpikfasfd ymaddtlng tfhekildp addmsaelcg nftfrkpn ecympndlnp  
481 cedvmgyqwl risvwivval avvgnvavlt vilsirpest pvprflmchl afadlclgvv  
541 llvvasidah smgeyfnay dwqyglgckv agfltvfash lsvftltvit ierwlaitqa  
601 mylnhrik rpaalimlgg wiysmlmss lplfgisnys stsiclpmenr idydtvyli  
661 mvcngvafsi iavcyaqiyl slgretrqah hnspgelsva kkmallvftn facwspiaff  
721 gltalagyp linvtkskill vffypnsc adpylyailts qyrqdlftl sklglcrqsa  
781 lkykdsisgh attrftihg iqrhgsiltc mqtmgaet qkmlknsedy v

Suzuki [XP\\_016932820.2](#)

1 mekhtsqypk espwrtrkg klctfefqfr lllhhlmlss lcghpcvyat savgealsas  
61 nchdihhgf dvypnpspn ltavtlgqst dtpsvtltp psgwkccwn asnaeevec  
121 rcegdglrv pgtlklpiqr ltiasaglpr lrytgkvyg ptlldvaftd clqleliqdg  
181 afanltllrt iytinapklt flskdvffgi sgtveiri nsgltrvpdl shlpphnlq  
241 midldnnqit ridtsikvk taqlilannd isyvdsaff gskiaklsln dnrlrehmhp  
301 nafdgidite ldlssstslva mpsvglqnie alyiqnthtl ktipsiynfr nlqraylths

361 fhccafqfps rhdpqrhaqr mleiekwrkq cksesvsrqe rstldnaytm pedfgtfest  
421 desstdlvpi tfasfdymad dslnkgtfhe kitlnpeddm saelcgnftf rkpniecypm  
481 pndlnpcedv mgyqwlrisv wivvalavvg nvavltvils irpestpvpr flmchlafad  
541 lclgvyllyv asidahmge yfnyaydwqy glgckaagfl tvfashlsvf tltvitierw  
601 laitqamyln hriklrpaal imlggwiysm fmsslplfgi snysstsiel pmenrdvydt  
661 vyliaimvcn gvafsiavc yaqiylslgr etrqahhnspl gelsvakma llvftnfacw  
721 spiaffglta lagyplinvt kskillvffyp plnscadpyl yailtsqyrq dlftllsklg  
781 lcrqsalkyk dsllsghattr ftihgsiqrh ssltckmqtv mgtetqkmlk kseevy

**Biarmipes** [XP\\_016951482.1](#)

1 mekhtsqcpk eapwrpkrql kcltiefqfr lllhhlills lcghpcvyat savgealsas  
61 nchdihhgfd vypnpnlntp ssangttvtl gqsrdtspvp ltlppsgwkc ccwnggnqae  
121 evecrcegdg lnrvpqtlkl plqrlltiasa glprlrytgl kvygatlldv aftdclqlcl  
181 iqdgafanlt llrtiyitna pklftflskdv flgisgtvev iriinsgltr vpdllshlpph  
241 nilqmidldn ngitridtks ikvkaqlil anndisyvdd safygskiak lslnndlrle  
301 hmhpnafdgvi iditeldlss tslvampsvg lqniealyiq nthlkttips iynfrnlqra  
361 hlthsfhcca fqfprhdpq rhaermleie kwrkqcksds vtrkerstle ngftlpedfg  
421 tfggtddsst dlvpitfasf dymaddtlik gtfhekiiln peddmsaelc gnftfrkpn  
481 ecympndln pcedvmgyqw lrisvwivva lavvgnvavl tvilsirpes tpvprflmch  
541 hafadlclgvi yillvasida hsmgeyfnia ydwqyglgck vagfltvfas hlsvftltvi  
601 tierwlaitq amylnhrik rpaalimlgg wiysmfmsl plfgisnyss tsiclpmenr  
661 dgydtvylia imvcngvafs iiavcyaqiy lslgretrqa hqnspgelsv akmallvft  
721 nfacwspiaf fgltalagyp linvtkskil lvffypnsc adpylyailt sqyrqdlftl  
781 lsklgclcrqs alkykdsllsg hatrftihg siqrhgsiltc kmqtmvgaes qkmlkntedy  
841 v

**Eugracilis** [XP\\_041675437.1](#)

1 mekhtnlcrt estwrpkkgl kclsfeylfr lllhhlills lsgphcvyat sdigealsas  
61 nchdihhgfd vypnpnalsl gqstdtpltq tlpssawkcc cwnasnqmee vecrcegdgl  
121 nrpvtlklp iqrltiasag lprlrytglk vvgptlldva ftdcqqleli qdgafsnltl  
181 lrtiyitnap kltflskdvf lgisdtveii riinsgltrv pdllshlppnn ilqmidldnn  
241 qtridtksi kvktaqlila nneisyidss affgskiakl slkdnlklem mhpkafdgii  
301 diteldlssst slvglpsvgl qtiealyiqn thtlktipsi ynfrnlqray lthsfhccaf  
361 qfprhdpqr haqrmlieik wrkqcksds srkerstldg ldnqpedfsg fggysqsatd  
421 ispitfssid ymadtmnkg tfhekitlnt eddmsaelcg nftfrkpnie cypmpndlnp  
481 cedvmgyqwl risvwivval avvgnvavl vilisrpett pvprflmchl afadlclgvy  
541 lllvasidah skgeyfnafy dwqyglgckv agfltvfash lsvftltvit ierwlaitqa  
601 mylnhriklr paalimlggw iysmfmsmp lfgisnyss siclpmenrd vydtvylvai  
661 mvcngvafsi iavcyakiyl slgretrqar hnnpgelsva kmallvftn facwspiaff  
721 gltalagyp linvtkskil vffypnsc dpylyailts qyrqdlftll sklgclcrqsa  
781 lkykdsllsg ptsrftihgs iqrhgsiltc mqttmttetq kmlknsedy

**Ficusphelia** [XP\\_017047222.1](#)

1 mkkhtnlhrk evtwrsrrgt kcltfeiflfr llynhlills mfgpdcvyat savgkalsas  
61 nchdihhgfd vfpnpnptpa lnavdsnpnt ssnatamwlg qstdtptvlt lppsawkccc  
121 wnasnqneev ecrcegdgln rvpqtlklpl qrlltiasagl prlrytglkv ygptlldvtf  
181 tdclqlleliq dgafanltll rtiyisnapk ltflskdvfa gisesveeir iinsgltrvp  
241 dlghlpphni lqmidldnnq isridtksik vktaqlilan ndisyvddsa ffgskiakls  
301 lqnrklkqm hpnafdgii ideldlssst lvglpvsglq niealyitnt htlttipsiy  
361 nfrnlqrayl thsfhccafq fprhdpqrh aermreiekw reqcksdhgs rkersaldgf  
421 eglpedfgyt gmpeqsgtdt tsityasfdy msddtlnkgt fhekitlntpe ddmtaelcgn  
481 ftfrkpniec ypmndlnpc edvmgyqwl isvwivvala vvgnavlvtv ilsirpestp  
541 vprflmchla fadlclgvyl llvasidahs mgeyfnayd wqyglgckva gfltvfashl  
601 svftltviti ercmaiqam ylnhriklrp aaiimlcvwi ysmlmsslpl fgisnyssst  
661 iclpmenrdv fdtmyliaail gcngvafsi avcyaqiyls lgretrqarh nnggelsvak  
721 kmallvftnf acwspiaffg ltalagyppli nvtkskillv ffypnscad pylyailtsq  
781 yrqdlftlls klglcrqsal kykdsllsga ttrftihgsi qrhgsiltckm qtmvgtetqk  
841 mlkcgedyv

**Elegans** [XP\\_017119258.1](#)

1 mekpailark dvlrrsrkcs kglkclsfdf qfrlllhyll lsslsgphcv yatmagseal  
61 sasndihh gfdvypnpta vsqgstdtp ltltpsgw kccwnasnq neevecrceg  
121 dglnrpvtl krpiqrlltia saglprlrnt glkvygstll dvaftdclql eliqdgafan  
181 ltlrtiyis napkltflsk dvffgsgsv eiiriinsgl trvpdlghp phnilqmidl  
241 dnnqitridt ksikvkaql ilanndisyv ddsaffgski aklskdnkp lkelhpnaf  
301 giiditeldl sstslvgmps vglqtiealy iqnthlktipsi ynfrnlq raylthsfhc

361 cafqfprshd pqrhaqrml iqkwreqcks dhvsrkerst vdnlnsmpee fgsfgstdqs  
421 atdmtsmtya sfdymsddtm nkgftfhekit lnpeddidel cgnftfrkpn iecypmpndl  
481 npedvmgyq wlrisvwivv alavvgnvav ltvilsirpe stpvprflmc hlafadlclg  
541 vyllfvasid ahsmgeyfnf aydwqyglgc kvagfltvfa shlsvftltv itierwlait  
601 qamylthrik lrqasiimlg gwiysvlmss lplfgisnys stsiclpmei rdgfdtayli  
661 ailacngvaf tiiavcyaqi ylslgretrq arqnspgels vakkmallvf tnfacwspia  
721 ffgltalagf plinvtkski llvffyppls cadpylyail tsqyrqdlft llsklglcrq  
781 saikdkdgss trgtrytin gsiqrhaslt ckmqtvvgae tqkmlknged yv

Rhopaloo [XP\\_016976568.1](#)

1 mekytilark rarrpskril kclsleflyr lllhhlills lcdhhyvyat savgepiss  
61 dchdihhgd vfnhtalpl qgstdtpls tlppsgwkcc cwkssnqnee vecrcegdgl  
121 nrpvqslklp iqrltiasag lprvrftglk vygsslldva fidclqleli qdgafanal  
181 lrtiyisnap klftlksdvf sgisgsveii riinsgltrv pdlghlpphn ilqmidldnn  
241 qitridtksi nvktaqlila nndisyvdds affgskiakl slndnpklke lhpnafnngii  
301 ditaldlst sligmpasgl qtiealyiqn thtltkipsi ynfrrlgray lthsfhccaf  
361 qfprshdper haqrmlieik wrkqcksdqv srkersiadr lnsvpeefgs fgmdqslly  
421 msddtmnkgf fhekitlne ddidelcgnf tfrkpniecey pmpndlnpce dvmgyqwlri  
481 svwivvalav vgnvavltvi lsirpestpv prflmchlaf adlclgvyll lvasidahsm  
541 gayfnyaydw qyglgckvag fltvfaslls vftltvitie rwlaitqamy lthriklrpa  
601 sfimlggwiw silmsslpf gisnysstsi clpmeirdvf dtvyliaila cngvafsiia  
661 vcyaqiylsl gretrqsrqn npgemsvakk mallvftnfa cwspiaffgl talagfplin  
721 vtkskillvf fypnscadp ylyalltsqy rqdlftllsk lglcrqsalk ykdssahat  
781 srftihnsih rhgsltskmq tvisaetqkm lknseyv

Kikkawei [KAH8340697.1](#)

1 mqrqrtnwvr rkgrgqpkta ltclsigflf rflfvylhll aplcgphcvy amlaaegpsd  
61 gsnchdihhg fdvpslnav teaqgdapm avtltpapsg wkcccwkpn qgeeecrce  
121 prlratglkv yaqtlmdvaf tdclqleliq dgafankll rtiyianapk ltflskdvff  
181 ntlrtiyi snapklfsl kvdfagiset veiriinsg ltsvpdlghl pphnilqmid  
241 ldnnqitrid tksinvktaq filanndisy vddsaffgsk iaklskdnr kltadmhnaf  
301 ngiidaeld lstslvqlp svglqtieal yimnthlkt ipsiynfrnl graylthsfh  
361 ccafqfprsh drrrhaqrml eiekwreqcn kgsrkersll dnfeaqpdef gsfgstpsv  
421 teitpypyas vdimadstnl gyfheqitin pdddqsaefc gnftfrkpn iecypmpndl  
481 pcedvmgyq wlrisvwivv lavvgnvavl tvilsirpes tpvprflmch lafadlclgv  
541 ylllvasida hsmgeyfnf ydwqyglgck aagfltvfas hlsvftltvi tierwlaitq  
601 amylnhrik rqaalimlg wlysmfmsl plfgisnyss tsiclpmenr dafdtmylia  
661 ilgcnvafv iiavcyaqi ylslgretrqa rqnnpelsv akkmallvft nfacwspiaf  
721 fgltalagfp linvtkskil lvffypnsc adpylyail sqyrqdlft lsklglcrqn  
781 alnykhssa qattrftihr hsslctkmqa aisveaqkml kngedyv

Bipectinata [XP\\_017105030.2](#)

1 mkcvlpkfvf rllhhlills klcwlhgvy tsaschdsyn gfnvfpngss dlrdpnpdt  
61 vssgqapppt ltppwkccc wnatnqsee ecrcegealt rvpqtlm qrtiatagl  
121 prlratglkv yaqtlmdvaf tdclqleliq dgafankll rtiyianapk ltflskdvff  
181 gisdtevir iinsgltrvp dlthlppyni lqmidldnnq itridaksik vktaqlilan  
241 ndisyvdds fcgskiakls lkenrklkel htanafhiid iteldssts ivempsaglg  
301 tiealyilnt htlktipsiy nfrnlgray lthsfhccafq fpsrhdplrh aqrmeiekw  
361 rtqckgeris rkersilnll ksqsdyggif gseasptdvv stqfasvdym adaamnlygf  
421 heeitlnpdd eqfaefcgnf tfrkpnvecy pmpnalnpce dvmgyqwlri svwvvalav  
481 vgnvavltvn lsirpeitpv arflmchlaf adlclglylf lvasidahsm geyfnyaydw  
541 qyglgckvag fltvfashls vftltlitie rwaitqamy lnkriirlsa siimlggwiw  
601 smvmsslpf gisnysstsi clpmevrdsf dtvyliaail cngvaffia vcyakiylsl  
661 gretrharqn npgelsvakk mallvftnfa cwspiaffgl talagfplin vtnskillvf  
721 fypnscadp ylyailtaqy rqdlytllsk lglcrknavn skdnssgmt trftihrss  
781 ltrippale vetqkmltcn edyv

Ananassae [XP\\_001964371.3](#)

1 mkcvlpkfvf rllhhlills ricwphgvy tsavchdshn gfnvspdgn dlsdpnrptt  
61 mssgqapppt ltppwkccc wnatnqsee ecrcegealt rvpqtlm qrtiasagl  
121 prlratglkv yaqtlmdvaf tdclqleliq dgafankll rtiyianapk lsflskdvfs  
181 gisdtevir iinsgltsvp dlthlppyni lqmidldnnq itridaksik vktaqlilan  
241 ndisyvdds ffgskiakls lkenrklkel htanafhiid iteldssts ivempsaglg  
301 tiealyilnt htlktipsiy nfrnlgray lthsfhccafq fpsrhdplrh aqrmeiekw  
361 rtqckgeris rretniakki esqqdldgtl ggsealsadv lstpfssvdy madaamnlygf  
421 fheetinpd deqfaefcgn ftfrkpsvec yppmdalnpc edvmgyqwlri iswvvala  
481 vgnvavltv nlsirpeitp varflmchla fadlclglyl flvasidahs mgeyfnayd



541 wqyglgckva gfltvfashl svftltliti erwaitqam ylnkrirlrs asiimlgwi  
601 ysmvmsslpl fgisnyssts iclpmevrtd fdtvyligil gcngvaffii avcyakiyfs  
661 lgretrharq nnpgelesvak kmsllvftnf acwspiaffg ltagagypli nvtnskillv  
721 ffyplnscad ppylyailtaq yrqdytlls klglcrtnav nskdnssgm g ttrftihrhs  
781 sltcrippal evetqkmlty seeyv

Mojavensis [XP\\_001998425.1](#)

1 mkctpiiarp dfsavillsl vycesqgastn cydnhdgfna iinnlprdag naidtldtla  
61 qappmttpp vdasvkwccc weatnhnefe crcegealtr vpqtlklplq rltiasaglp  
121 rlrsmglkvy aptlldvafi dclqletiqs gafsnltvlr aiysisnapkl sylaknvfeg  
181 isdtieiiiri insglktvdp lgdlppynil qmidldnnqi sridsksiqv ktaqlvlann  
241 eitfiddsaf lgskiaklsl ndnhkltaih pnafngiidm telldsstsl vrlpsaglqt  
301 levlyianth tktipsiyn fqnlqrahlt hsfhccafqf psrhdppqra qrmqevewkr  
361 dqcknrrdvh tnyerslms nltplanvse vqpsgstinn llaestpnty aymadstltn  
421 igifheeiiri npdddqlaey cgnftfrkph vecypmpnal npcedvmgyq wlriavwivv  
481 alaivgnav ltvilsikse spsvprflic hlafadlclg lyllliasid ahsmsgyfn  
541 afdwqyglgc kiagfltvfa shlsvftltv itierwfait hamylnkrik lrpaavimlm  
601 gwiysivmss lpllgisnys stsiclpmek rdiydsiylv lilgcfnlaf ttiiaicysqi  
661 ylslgketrr arqnhlgems vakkmallvf infscgapia ffgltagagy plinvtkski  
721 llvffyppls cadpylyail tsqyrqdllt llskfglcrq ralkykhds mhgtshtyir  
781 gsierehsvg qkcqkivaee aqnmlrned yv

Virilism [XP\\_032289845.1](#)

1 mkcmviisql dfltfillsl ahgtrqantn chdnngfnt vfnnlidng netdmsvmt  
61 qapmtstnpt sdasvkwccc weatnqnefe crcegealtr vpqtlklpll rltiasaglp  
121 rlrsmglkvy attlldvafi dclqleaiqn gafsnltflr tiyisnapkl tylpknvfeg  
181 isdtieiiiri insgltsvdp fgylppnnil qmidldnnqi sridsksiqv ktaqfvlann  
241 dihfiddsaf lgskiaklsl kdrrltdvh pnafygiidi telldsstsl vslpsaglqt  
301 vevlyiinth tktipsiyn fqnlqrahlt hsfhccafqf psrhdppkra erlqelqkwr  
361 eqcnverdly rdvdkklkn tsvkdtagvh ytnqsgtatd nlltdaasns ydymadstmn  
421 nigifheqit inpddnqlae ycgntfrnp diqcfmpna lnpcedvmgy qwlriswivv  
481 valaivgnla vltvtsiks espvprfli chlafadlcl glylliasid dahsmgyfn  
541 yafdwqyglg ckiagfltvf ashlsiftlt iitierwfai thamylnkri tlrqaagiml  
601 tgwiysiims slplfgisny sstsiclpme irdiydsiyl ililgcfnva ftiaicysq  
661 iyslgqetr rarrnpgem svakkmlllv finftcgapi affgltagagy cplinvtksk  
721 illvffyppln scadpylyai ltsqyqqdll tflsklgicr qnalkykhds slhgtshyti  
781 rgsieqqssl cqkppqegaa etqtmkne dyv

Grimshawi [EDV91130.1](#)

1 mkwtffglqf diltflvfw lvccahqast ncydsssgfn tnpnalpaed gnetytttdt  
61 pmptadasvw kcccweatnq nlfpedefec rcegealtrv pqtllklplqr ltiasaglp  
121 lrsiglkvya stlldvaftd cpqletiang afsnltlirt iyisnapkl ylskdvfegi  
181 snkidiirrii nsgltsvdpd ghlpntilq midldnnqis riesksiqvk taqfvlannd  
241 ityiddsaf lskkiaklslk qnrllseihp nafngiidmt eldsstslv rlpagglqti  
301 evlyimtht lktipsiynf qnlqkahlth sfhccafkfp srhdppqrhkk heeelrklqe  
361 qcksdrdmhn nvatniipt kmsedavgmp ngkgnwgien gdwnnelid spealpmdd  
421 ymadatmnnl gvfheteitin pddnqmtfc gnftfrkpn i ecypvpnaIn pcedvmgyew  
481 lriavwivva ltivgnvavl tvilsikses psvprflich lafadlclgl yllliasida  
541 hsmgqyfnia ydwqygfqck vagfltvfas hlsvftltvi tierwfaith amylnkrik  
601 grasvimitg wlyaitmssl plfgisnyss tsiclpmeqr diydsvylm ilgsnfiaft  
661 iiaicysqiy lslgqetrna rqnnpgems akkmallvfi nfscgapi af fgltagagy  
721 linvtkskil lvffypnsc adpylyail sqyrqdlfl fsklgicrks vmkykysdsm  
781 phtshftirn sieqpnaafh kapngagaet qkmlinedy v

Serrata [XP\\_020813515.1](#)

1 mgrrrthwvr kgdrpvktg ikclsigyll rllfvhlll gsfcgshrvy amlaaegqsv  
61 rsnshdvhhg fdvppgrqpv dnqvrqapit vilpkvtrw kfcfsktpnq seelecreg  
121 dsltrvpqtl qpigrltia saglprlrst glkvygptll dvaftdclkl eliqdgafan  
181 tmlrtiis napklftlslk dvfagisetv eviriinsgl trvpdlghlp phnilqmidl  
241 dnnqitridt ksinvktaql ilanndisyv ddsaffgski aklskldnw ltemhpeafn  
301 giiditeld sstslvlgpls vglqtiealy imnthlkti psiynfrnlq raylthsfhc  
361 cafqlpsxhd prrhalmle iekwregcnk csrkeralld yleaqpedfg sfgstepsmt  
421 entpfpiasi dymadstnlg yfheqitinp ddkqsaefcg nftfrkpnie cypmpndlnp  
481 cedvmgyqwl risvwivval savgnvavlt vilsirpess pvprflmchl afadlclgvv  
541 lllvasidah sigeyfnay dwqyglgckv agfltvfash lsvftltvit ierwlaith  
601 mylnhrikmr qaailmggw lysmvmsslp lfgisnysst siclpmenrd afdtmyliai  
661 lgcngvafsi iavcyaqiyl slgretrqah qnnpgelesva kkmallvftn facwspiaff

721 gltalagfpl invtkskill vffypnsca dpylyailts qyrqdl1t1l sklg1crqna  
781 lnyhssap attrftihrh ssltckmqtv lnaeaqkmlk ngedyi