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Glaucopsyche alexis-FR990048.1:19738611-19738940() Lepidoptera
Glaucopsyche alexis-FR990054.1:21010405-21010734(-) Lepidoptera
Glaucopsyche alexis-FR990062.1:9953161-9953490() Lepidoptera
Glaucopsyche alexis-FR990053.1:24573247-24573576(-) Lepidoptera
Apodemia mormo-DWSR01000230.1:3725-4648(-) Lepidoptera
Apodemia zela-DWBA01083365.1:157-498(-) Lepidoptera
Apodemia mejicanus-DVYH01000479.1:935-1858() Lepidoptera
Glaucopsyche alexis-CAJQFM010000479.1:14645-14974(-) Lepidoptera
Glaucopsyche alexis-CAJQFM010000676.1:1615663-1615992(-) Lepidoptera
Apodemia virgulti-DVYA01000957.1:853-1776() Lepidoptera

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MDA....SQIQQQGFDSGLG..GSAASAESDILISQISSSGSGGGGGGGGSNDES....RA....
...MQDQRQTQSQYSQPMQGF.RRANVFD....D..ASMQDATSISSTE....QMPLI.....
MNQNQNLQ.....QTFSMPAG....INNYN.....SGVPTFTGQ...PLGERISVNAESAKV.....
MNQS...QNV.EQRRFA.....GDDNVGD.....D..NDFMDMNE.NGDENGPCDLHDSVI.....
MNQS...QNV.EQRRFA.....GDDNVGD.....N..DDFMDMNE.NGDENGPCDLHDSVI.....
MSNPTQIQTTQTQSQSF.....GARNIS.....SAYQGVGAAGVSGQDDCNIEHLYN.....
MAQE...QHSVQIQRSAPRLGEQHDDRMPD.....S..ENY..NND.KENENEECNKHIPYI.....
MGQH...QTPEQTSISL.....GSINIGN.....A..AEFKD.....DTGKPIKVYKSYI.....
MSQVTINTQST...IPGAPLPQPSSSRNSN.....V..NGIQTNTSSSSS...STEVFDTLI.....

.....AINRILEQLK..QL..FVDQNKQIKLEQNIQAFT.....LNLRVKACTPLGKRNA.DRQDGLYCLID.VHCS
.....VLAQTW.....GTDVTAECANLSVENH...DFKLQCMTPSGKCG
.....GFIYSFSDKYSKYATNGSAGNACYFSAENSENVT....FKYNKDCI
NEKSSKDLETEMDGLAKEVMYAVGELDEDKIKMTVFNLS.....LATKNSKCGSLMNSNE.LKYTNLKCIIHDCFACG
.....VSCHSF.....GKPP.....DFCNNSNGTVLNPPECI
.....VSCHSF.....GKPP.....DFCNNSNGTVLNPPECI
.....KQTS.NSCLLSYQSRDNVPKGLTCLVNTPSCG
.....MSIQI.....TKKS.....TDGINESISVPKCI
.....NSIMIY.....ESMPNT..YNSDNQINLCN....ETPKAPCL
.....NSVFSS.....S....TDCASTL..PVN.....VCNQKELPCF
.....
.....ELCDRSDTTMCN..PACF
.....ELCDRSDTTMCN..PACF
.....ELCDRSDTTMCN..PACF

NL.....DGSPPSVIICGFCCKHAKFEFLNLT.....IQNVMFNQI
AADFKTSA..IG.....TTVVSIRSDDCMHGVSCGYHAAIGLNLVH...RNIYVNTNTV
FKSLSGS.....QCGNLKQGELWKLDRSTEYLLYYLCCPHHFARLTNTIA.....MNRINNDKTV
DI.....NGGRPSLIYGIYQCKHLRQLLNTDI.....ILTEMDTKI
LANCKKES..GGIIECGGISYNKREMIDQNIPIYFISGAFCEFHNLQFKKSTI.....ACKLVGDEWK
LANCKKES..GGIIECGGISYNKREMIDQNIPIYFISGAFCEFHNLQFKKSTI.....ACKLVGDEWK
KD.....GNITIGPYCQYHAKNKLNMTL.....VKLYNGNTIT
FHVGNR.....CGTVNLDKRGGLDTSQQSLIIGNFCEYHFMKYLNCIY.....VSFSEGTNLS
LSFTGNIILIKKINKLLINNYLLGHCSPIDKSPPLFGCLCSHHQFRLFQSSC.....TSMHVLNNDV
FEFLQ.....SCSPRDEDVYGLYCLRHTNATNRTFAAIGTQTSVDMQPIYLKTAVCEKNMFLWS
.....
.....
FSSNEY.....CMGNV.....YNGLCQKVHSKLLYRNFE.....TCYDQVSKYK
FSSNEY.....CMGNV.....YNGLCQKVHSKLLYRNFE.....TCYDQVSKYK
FSSNEY.....CMGNV.....YNGLCQKVHSKLLYRNFE.....TCYDQVSKYK

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QTAAV.CCKVPKNQPLAWYCLMALQPLNSSPEYFINIFKNAPL....NTSIHVNQMAKIWSLGTIGVSSNTILNDECKA
QNVLVPIY...TFQSAHVIMPLVSMLPVGCTSAATTYETYFKHK.....AIDESEKLLLYSSSLLAVAASSPTEGHTDLE
MVTPVACT.KTTE.VIIGHPVLSLIANSPEGASRQAL.ARLP.....NQIDGIDPIKFLTKASKVVTSDNLFDSTEIS
AL.NVPS..ITIKDTRAMFPVLSLQPLNSSPKVFEYEMITDSSLLYHGEKCKDDIHVCTLLSVGTAMTSGPAMSQ.VRE
AL.NVPS..ITIKDTRAMFPVLSLQPLNSSPKVFEYEMITDSSLLYHGEKCKDDIHVCTLLSVGTAMTSGPAMSQ.VRE
LE.TVANKQIDGDQPIAFQPLWCAQPANQSAKYRDLFERNPS....YDIDGTQVLAALFAFGTKTIGGKSQPPSDADR
FL.PINY..NLVKNPMALFPIVCCLPINLPQDDTAMFESSH..LNGEHLQDEVTYSKLISLLVKDINIEDNFNTHADN
ALVPISTVKATSRRTM...IVTSTIMPNCPTTALQQLLC.....NTQGDSEEKDAIVDFFHILCSDVD....SIIND
FLTNVVSY.....PR.....AKELISFMNIST.....TESSNIAKFLMAVS....EPH.GHRQNS
.....
.....
QIWPVAT..KGFREPKFVFPLLSMLGPTTEPKDIFINHE...SL.....EVEEHA.KMYLSKGS....QPDLDTAVQR
QIWPVAT..KGFREPKFVFPLLSMLGPTTEPKDIFINHE...SL.....EVEEHA.KMYLSKGS....QPDLDTAVQR
QIWPVAT..KGFREPKFVFPLLSMLGPTTEPKDIFINHE...SL.....EVEEHA.KMYLSKGS....QPDLDTAVQR

PLIIR.....FYSLYNEHTSELNMCIKYDTTMMFSSDWLEQNQNHLVMRIMQSLSPSKVTKNGNEIDLKAITNAEE
A...LQDFMIQGKC.LESLIKDNLPCLKNTIISAYFDQTYLDVNKNNMWLKTFIIDAGKNGTG.....ED.VVKV
KEILKT..LLDISQAYGNTVISEH...MKTARIRLIHTQEYLDTHKNEYLVVRVMQD....QYK.....NTEV
RKILK.....SNKEYSTNFANYLECSKDNIWFDFSLNFLNFMKNLKVVRDIITCKPLLKTS.....A
NYFTRL..WMDNASK.WSRVYSDVMKKYEHDYVHLYFSNNYLKKKNLKF.LQRVK..ENS.TF.....
NYFTRL..WMDNASK.WSRVYSDVMKKYENDYVHLYFSNNYLKKKNLKF.LQRVK..ENS.TF.....
NELLKL...IARSTT.YQPILAHEYEDCIRYNSANLYFTEKYINDNRSNSFLSKIIKYRDNSKTF.....LGNS
MFSQRI...LEYTVA.WRHKLQEYLGFWKNDEVNLYFTSDYLEKNKQSFLLSLKRIGKKI.EEP.....NTTS
VSTIRFNQYMSGLAATYFELLNTKANLINNVAPIMISEEQRTIMMSNSWVYNLTGK....EYP.....MTLLSGT
EEQRMYQYLSAYCQ.SAIKCLEAVPDRDKILVPILFTRKFFVENNARNRMVNDIMTK.SEAGTYA.....MQRV
.....
.....
KFVNKMMFFHAGHNS.WINR...HISELSDRIVTVHFSSKYVPTTRFAKKLYDRAH..SGA.GEQ.....ISQS
KFVNKMMFFHAGYNS.WINR...HISELSDRIVTVHFSSKYVPTTRFAKKLYDRAH..SGA.GEQ.....ISQS
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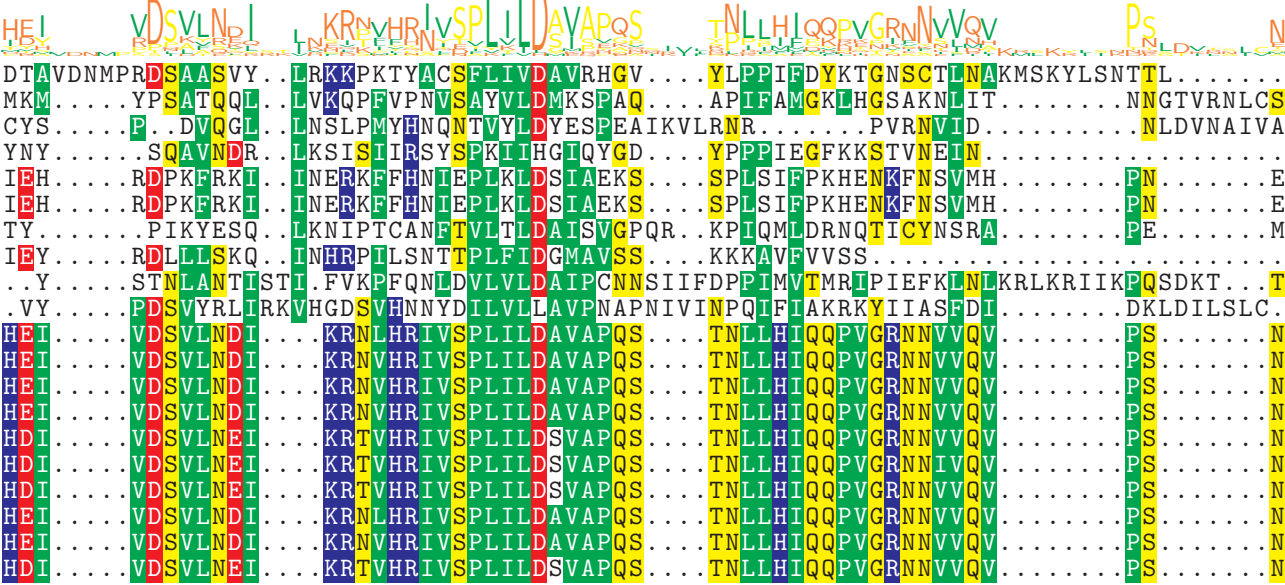
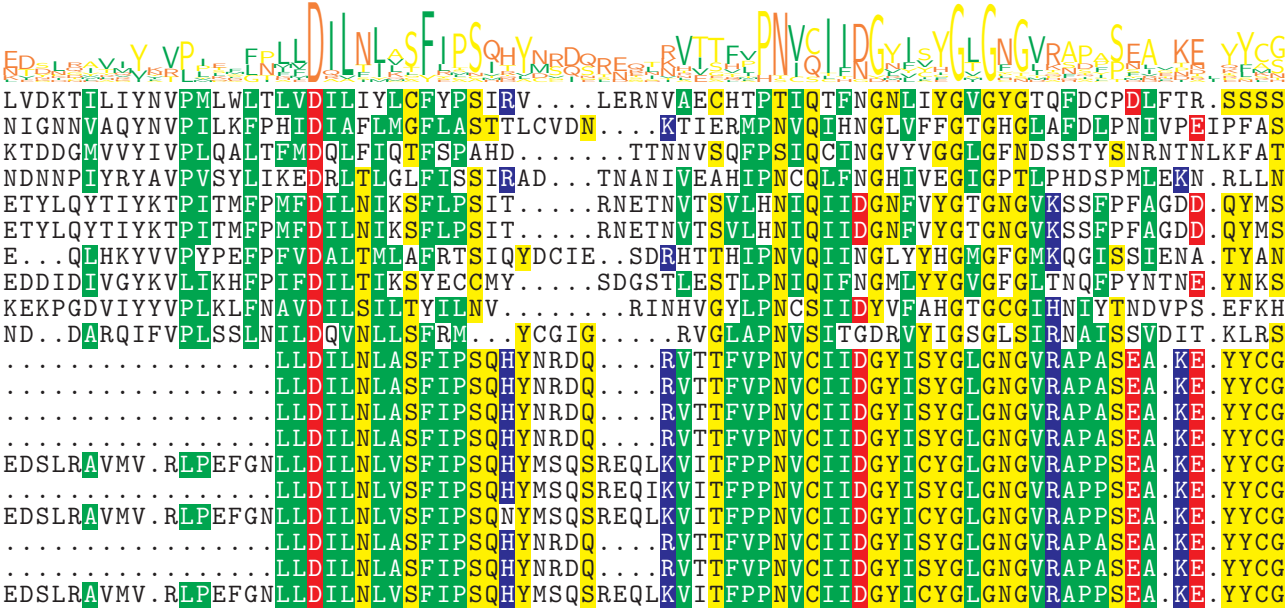
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X acidic (-)
X basic (+)
X polar uncharged
X hydrophobic nonpolar