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MdSGHV pif5
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PmNV pif5
HzNV-1 pif5
DhNV pif5
OrNV pif5
tom pif5
AcMNPV pif5
CuniNPV pif5
LdMNPV pif5
CpV pif5
NeseNPV pif5
DnSGHV pif5
Junonia grisea-DWDP01038949.1:132-653() Lepidoptera
Junonia litoralis-DVWF01048955.1:1012-1533() Lepidoptera
Junonia evarete-DVUF01000657.1:1312-1833(-) Lepidoptera
Junonia evarete-DVUH01071428.1:66-593() Lepidoptera
Junonia evarete-DVUW01162727.1:2-478(-) Lepidoptera
Junonia litoralis-DVVV01134530.1:86-607() Lepidoptera
Junonia evarete-DVUY01050523.1:383-904(-) Lepidoptera

MWLMTSCPIYVLVGCNTSLYKAIIEGVKTKHTMVLTLSCCTTRRVASSKGNFSKEDAVLGNQFPILKKSNNLSIARPPSIESFSASV

WSSV pif5
GpSGHV pif5
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Junonia evarete-DVUY01050523.1:383-904(-) Lepidoptera

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EKIFREWNESGGEEKIFDISQNEEEWMDIISLVESVYEPVFFSKSLKPDKLADKTCLTAAAFALASAVDEKLTILSGSDGSVLQRT
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A grid of dots representing a blank sheet of graph paper.

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PoFV pif5
CcFV1 pif5
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Junonia evarete-DVUY01050523.1:383-904(-) Lepidoptera

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WSSV pif5	IASDMHFKLV E H I F K V S F R K W G P C G D K T E S G E E E D E E E E E E E K K H S I S R F V L Q F M N G H N G Q H Y H R P E S A S V Y F C D Y Y D Y L A Y R N L
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logo
WSSV pif5 PNEYKLSSMHPGTfNMedLPFRPFAVPSTYKTELEYKRfVQSTnLPQLSFDYGEFLCYCIfGADWYKHLGDVVDSLEnSSMISFD
GpSGHV pif5
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Junonia litoralis-DVVV01134530.1:86-607( ) Lepidoptera
Junonia evarete-DVUY01050523.1:383-904(-) Lepidoptera

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logo

WSSV pif5	SQTLSGVYKNTANYKRLGKKRNGIADLAVRSMAEFIRTEAHKALTAEEEMEEEEEEEEEEEEAMDQEPAEVDFLSVPHLRRKIRQA
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RDIL..ETRALTTYSAE.TFRDLGQGIVKE...TEGLTA.....ATVAETSFSEGL..AESLRSDANLGLEFSEDAKTVVFKN
EIIKLTNKCYFFNFKMR.MFKILENLHVTK.....RLEVGRLNINIENYSKS.....V.....
.....MVSFNERT.LVKGIR...PK..KVTGVMS.....NQIVTELNHTAKI.....AGQ.SNNLLMKSFIEH....
.....SLA.LHRIVSAIRVEE.....NVVAGVAKIEKYGLN.....A.....
NVIR..NFIFAMSWFGK.LL...KFARQKDLVV.....AADAKQIIDELTESALK..YDD...S.....LTKAI.F.....
...M..LLRALTKWIKP.LSSGLS...HQ..KAQRIIT.....KELRMVASR.....SSK.SGG...LLIDV....
.....MASAFEFIGA.TF...KTAAKE..INPGEIS.....AIKAEFGGEAATL.....VHGAFAAE.I.....
.....MALSGGS.VKSLERVIAKE.IENEGA.....FIGVKKALVRS..VEDIDAN.....LA.K.Y.....
.....MGFTET.LFRSSK.....I.....IFK.....SSK.EVDLFKKTLLKTIKND
..ME..EFMT...TINE.IC...DF.....TIADETEANIR..IENFRNAAGKHKFFGPL.I.....
.....MGFAGS.LR...RLVRKSKKTATGAIDIGEASKNIVGEAKRLNL.....N.....ELSDL.F.....
.....MT...TINE.IC...DF.....TIADETEANIR..IENFRNAAGKHKFFGPL.I.....
RSTLAATNISSFKNFITK.FKSLSG..VTTDT.....VS...SAKQLLQTID..SG.....V..SPLDTAVKR
.....MALDLLQK.FRLLCQTGFENNED.....TE..FKIRVDALKDASINLN.....I..LSITNFFKF
.....MKWLND..TKVGSKPPIVSKPD.....FD...VTVNQLKAAK..CD.....V..PSIDSVFEN
.....MSFTSI.FRRALKPVDEIPA.....STVSTLRNAK..TG.....I..RSVDDVFGT
.....MSSSNLKA.MRAGSDIITEFHT.....LD...DVTSVIKGSD..SG.....V..PSIDTAIHD
GSTRA...LLPIKAFIKE.LK..S..MAKAG.....IG...DVQNLLKSFK..SN.....I..KSLDDIVTT
..MA...PLPIKSFLKD.LK...S..LAKAT.....VS...EAEELVKGFK..SD.....I..KSLDEVVTT
.....MSFFSN.LRAVNKLYPNQAS.....FI.T..DNTRLTSTP..AG.....F..T...NVLNA
.....MASKLFGP.LRVMGHVVDRSAL.....AMDRFRATAFRAVKNDN..AP.....L..Q...RIFDL
.....MSFFSS.LRRVNKVYPNPQ.....FLAV..DNLRVLNSTP..NG.....F..Q...NVFSA
.....MSFFRG.LRRTNKVYNDPSG.....FITD..HAQLIRNQTP..AG.....F..N....LNN
.....MPSG.LRKTAKIYDNTAD.....LLV...DNTSLVVGKF..SN.....F..D...AVFSL
.....MAA..FKILAAIRTEE.....HIIMGISKLERYSLL.....V.....

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Junonia evarete-DVUY01050523.1:383-904(-) Lepidoptera

.....DT....SR.....SLLEE.TRAIRANNTSFSSFAR.....DMG.....VQVSADLDAEFAAEMRETYPDAAL
.....V....PAPLKVVHHMNIV.NNLVHINGKPIDKMITMMRKGHVKVPTENIYK.....VKDMPRVM..ELR.....
.....A....SK....SLKVI.NNTHIGSLAVKHFLSYIFDNTIAKAMQLGGFATTFFFKK..SNFKKI.....
.....T....SSALAVREVVKL.DGVMTMNGKATRYIGTQLAMGF.TSSLRDVYK.....LDNIPRSL..ELR.....
.....S....NKSLYKFSENTT.DKLLRIGDADTEKVASLFFKRGDFETALREINIAASHVNVIDSTRINKTI.....
.....I....QK.....SVRIV.GNVVHVCKSAVSD.FVKHIFNCGNFISALKQLGLAAKPG....D...AF.....
.....K....SVS...F.TIGE.NGLLHIGETPLIELAEELKVGCVNVGALERVVS...PEIKSLLNKHQPQI.....
.....I....GKELE.F..DIE.HQTAKIGSKSMHDVIRMVQRCALEEFYSLKI.....SSRDLSPST.....
.....DI....YKAIENLKINKK.FNKLFINNYHIETILKDI FNNGNIISFFHKINVKNITL.....EL.....
.....E....TGELK.F..NPE.QRIITLNLKVSVTILRNVFMSGDYDRVAAFIS..SGPDFV...SIPKYV.....
.....S....TKYMK....VV.DNKALVGAIIDIAFVHFSSRLGDYSNSFYVA..FKDTDVLASSNVQKAI.....
.....E....TGELK.F..NPE.QRIITLNLKVSVTILRNVFMSGDYDRVAAFIS..SGPDFV...SIPKYV.....
.....LDV.....TKTAQGFEKLSDEQVGTINRILKEGNLDAIVRISKASVNVT..SADRAA.....
.....STYNVIEYM.CYMNNVKITLLESNIRTCNFDQSQILGFVDF.LFI...DDDILK.....
.....LPF.....TKVNDE..THINDARFRDLEVKFRKGEIKSALDDANISNTIP..VADEAA.....
.....LNY.....SLVDRQ..LAVNGVKLHTVESLLRRGELASMFSKLNKPTAIT..VADELK.....
.....LPF.....EQVGDE..MHVGNARWRDIEPKLRRGDIDGAFIDMGITHTIT..EADQAL.....
.....LPV.....TKNKYGFIELAENSVGNVNKVIREANLAEVLRLSGKNVPYT..SADVVS.....
.....LTP.....SKNKYGFIELSENQVGLVNEVMRQCDLRELIRISAKDIPFT..SADSKA.....
.....PSVRNIGNNRFQPGYQLSNNQ..FVS...TSDINRITRNNDVPNIRGVFQGI...S..DPQINS.....
PIREVPTVSRNGDQLYEPHLVMRPDE..PTM..PMREFDTGLRRGDQQVLNRLR..M...T...SSERAG.....
.....PSTRQIGTNRFPVPGYNLPNNR..FVP...SSDINRVMRNNDTAGMRNIFTSA..D...NSQLNS.....
.....PTTMGLANGTYVPGYNIN.GA..FIS...NTNVNTVLRNNDVVGMRQLFPDA..S...NNQMNG.....
.....PSAKSISK....GYVIDYAT..FIGNVDTFSINKILRQADDVNIETLFNA....T...DTDIAG.....
.....S....KSSLVVREMHVS.EGATHINGRLTEVVARDSLMSGF..THATHDVVYQ.....LEHIPHSL..ELR.....

logo

WSSV pif5
GpSGHV pif5
CcFV2 pif5
MdSGHV pif5
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CcFV1 pif5
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Junonia litoralis-DVVV01134530.1:86-607() Lepidoptera
Junonia evarete-DVUY01050523.1:383-904(-) Lepidoptera

EQNLKD LDKF..EETIPESQVKKLKKIDSYLTENP.....ERAGKE.IN.....DTELSKATDS
.....SIED..VKNLSSYHVGKSE.LGGEQFKNISA...NKLEKE.TNKTLN.....SKNFKDELTEPMVEKNPML.....
...KNFLTQE..SQLLPEHHLHKVAKVEKVLVENY.....SE.IV.....EATKPAA..RSRF...NWLV
.....TIED..VKLRPSYSVGEHIRFTENKFKPEIS....SKLDKE.AKRVMS.....STDLADEITPAIVERNPVL.....
...GNYFRNL..YKNVPSIRINNITETIESIFKRELNDWNI....AF.IDTLSD.....ATEIRKELLK..LPKNSKLRKS.LN
...VKYLSKQ..RMLDTSFRLSRADEISKNLKTHF.....PE.FEALSK.....IKAGSREEAD..LLKN....INLN
.....NEII..VSDLEKCPHFHYNKTLSH.....AKEFRKILGSE.IDTIST.....KGNELKNA.....KKV...NVK
...VEFL....KREASRYPTSHIESLKTVASR..LEDKLGSVAYKE.F...T....AEDVAKEVAK..NPK..GVSAKILE
...YEYIQMQ..TKNSITHFVKEISSLSTSLKSAL.....PE.LKNFKK.....FNNK.....SWLL
...QEELDLF..NKDLPMRAMFEIKE.....MSFKMGSLVEKM.HRHYGT.....MEEFFD.....RMEK
...KKVLSEA..ATELPDLPKKKYDEA..IIRSKVGFNLDK..KA.LNTYDD.....IDKEFV.....KNDAKLQQSVDK
...QEELDLF..NKDLPMRAMFEIKE.....MSFKMGSLVEKM.HRHYGT.....MEEFFD.....RMEK
.....VSALV..KDFPERPKIFSDSVESNARAF.....PE.MNGP.....L.DALSN.....
.....YKQQI.QSKVPDIKIKNFELWIFKREYE.....EY.QNIVKDTNPNLSAQELKDSLSD.....
.....LRKTI.KABAPDIDVQELNKKIDTAKKYH.....ED.LNVTAK.....DGAELESKLSA.....
.....FRKLI...DTPDIRIRNMEETVKSARII.....PD.LDIVVT...SASDL.ERLPK.....
.....FKKSL.TDSSPDIKINDLENKTTVAKKYH.....SD.LDVKNK...GSGAELEASLSA.....
.....FKTLV..SDTPELSKELSDLV TANKKSY.....PQ.LDLKTA.....DF.PTMSK.....
.....FKTLV..ADTPELKYKDVTDTAASNKKSY.....PQ.LNLTEA.....ET.PNMSK.....
.....LSQLRRVDNVPDFNYHTKQTRSNAVKQNF.....PE.TNVRTP....E..GVQNALQQ.....
.....LNNIR.GNSLDPDNLVQAIVRADEAAIRVRD.....PNLANARTE...Q..ETTDALAR.....
.....LGQLRRVDNIPDAGLHA AFLRRQGVKSNY.....PS.TNTRTP....G..GVEGVLAT.....
.....LTNLRADNIPDATLHGLQTRKNGVKTSH.....PE.TAVRDR....V..GVENALAQ.....
.....LNVLRKAANVPDNTIYVAEVKRINLKSLY.....PS.LDVKTY....D..GTASGLNN.....
.....AVED..VRFRRPSTFYGEHIRFTENTFRPEVI...TKLDQE.AKTIME.....SKDLSTELTPKVVEKNPVL.....

WSSV pif5
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LVI...LIVLFFAGSGPLTLNWFAKNSAKRK.QTEQFDGGGNRSKIVLAEKDNASKLQSRNETG.PMRLEELPGHEDLRP
 VVAAILIGITIVIF...ISLKLFAVMKLNKKP.LAPPG.....IETT.....ELLPSTEEES.....
 VIGIVGIGVAIYA...IRILNFISPPSNNTDDISPMIDDGGDDGGGGIS.DNNHNTNTKKHL.....
 VTVIGIAIILIL...SIFGKLNKKSN.IS.....VD.....DLQPILQQQQ.....PP
 LGG...L...FFF...ILIFYFKQKN.....
 LATILGYSYIVT...YYKETVAAATEEL.....
 AITF...FIILYVF...VKQVLFKQLRSSNAS.SPSFSGG.....
 VGI...FMVL...MSVWIYKNVFKN.....
 VI...IKIIMWA...KKIYY.KPKINYNYKKIS.....
 FVI...F...ILVC...RLGWYFVDKHD.....
 AIV...VIIIIFTF...L.FKFFTN.....
 FVI...F...ILVC...RLGWYFVDKHD.....
 LV...IAFIIV...YNFIIKKPSTAPPFT.ILQSPSASSSYVQGS.....PPSPPLQQQFSTQLPYIPLI.....
 CII...LILLLL...YFYNNNF.NNTIYFTNI.....
 VLV...FAIALA...IKFIPKK.KGVEISDNTPGTTTPAVPVAAP.....VAPYPTVTASVPVPPYRPPMGPNPSRS
 LVI...IGRFVY...VKFNLGD.LLKGRG...RGRGGSASGVGGS.....ASGVGSGDTRP
 FVV...VGFMLY...FKFKKPK.NKTPTTKPEPVREQT...QT.....QQSQENLRQQPPPPQQQQRAGTS...T
 VI...LVIIL...VSIQVKL...LKGRGG...G...GGGT.NEIRYAPLT.....
 VI...IVLIIV...ATIGLKV...IKGLGE...K...KPAP.PQ.QYATQQPMQV.....
 FLG...LIFYFT...YRYMMKG...GGGGGVGAATS...PTPIVISMQNPTPTTAPR.....
 LII...IIFVVV...FGYSRTR...RNSDADRTI.....
 AVV...LILVFV...FKRLMNMK...QTVDIRANA.....
 LLT...FIFGVI...FKVWNRS...SNNNTS.....
 AII...IIVGIV...FIKLSKA...VS.....
 IAIAATIIILIL...SIFKKFNTGG.....
 VAG...LVCLFLF...YKY.....
 VAG...LVCLFLF...YKY.....
 VAG...LVCLFLF...YKY.....
 VAG...LVCLFLF...YKYL...
 VAG...LVCLFLF...YKY.....
 VAG...LVCLFLF...YKY.....

WSSV pif5
GpSGHV pif5
CcFV2 pif5
MdSGHV pif5
PoFV pif5
CcFV1 pif5
EfFV pif5
PcFV pif5
LbFV pif5
LhFV pif5
AmFV pif5
DFV pif5
GbNV pif5
ToNV pif5
PmNV pif5
HzNV-1 pif5
DhNV pif5
OrNV pif5
tom pif5
AcMNPV pif5
CuniNPV pif5
LdMNPV pif5
CpV pif5
NeseNPV pif5
DmSGHV pif5
Junonia grisea-DWDP01038949.1:132-653() Lepidoptera
Junonia litoralis-DVWF01048955.1:1012-1533() Lepidoptera
Junonia evarete-DVUF01000657.1:1312-1833(-) Lepidoptera
Junonia evarete-DVUH01071428.1:66-593() Lepidoptera
Junonia evarete-DVUW01162727.1:2-478(-) Lepidoptera
Junonia litoralis-DVVV01134530.1:86-607() Lepidoptera
Junonia evarete-DVUY01050523.1:383-904(-) Lepidoptera

```
VFFPATTNYSKSAKILGYKSPFNDFYTKIINTDIIKMDR
..LSEITI.....
PPYSSIDNYYG.....
V...E.....
VII.....
LLEDTDSVDVDDDDVDVEYVD.....
NIFD.....
```

- X acidic (-)
- X basic (+)
- X polar uncharged
- X hydrophobic nonpolar