```
Vanessa cardui  UVRh  MIPVLNMDNKTENYNIYGAYFAPLRSSDGIKMLVDGLEGEDLAAVPEHWF    50
Lycaena rubidus UVRh  ...S.S..T.N.S.HL............EPE......T....E......L    50
                                      TM1                          TM2
Vanessa cardui  UVRh  SYAAPPASAHTALALLYCFFTAAALIGNGLVVFIFATTKSLRTSSNLLIL   100
Lycaena rubidus UVRh  ..T.................I.............I..............   100
                                                          TM3
Vanessa cardui  UVRh  NLAIFDFIMMAKAPLFIYNSAMRGFATGALGCQIFAVMGSYSGIGAGMTN   150
Lycaena rubidus UVRh  Q...L.............................V......L.........   150
                                                   TM4
Vanessa cardui  UVRh  ACIAYDRHSTITRPLDGRLSRGKALLMIALVWIYATPWSLMPLFKVWGRF   200
Lycaena rubidus UVRh  ......................VI....CI.........L.......Y   200
                                                        TM5
Vanessa cardui  UVRh  VPEGYLTSCTFDYLSNTFDTKLFVACIFVCSYVFPMSFIIYFYSGIVKQV   250
Lycaena rubidus UVRh  ..............TD.......................M...........   250
                                                                TM6
Vanessa cardui  UVRh  FAHEAALREQAKKMNVESLRSNQNASAESAEIRIAKAALTVCFLFVASWT   300
Lycaena rubidus UVRh  ..............D........A..........................   300
                                                  TM7
Vanessa cardui  UVRh  PYGVMSLIGAFGDQQLLTPGVTMIPAVTCKLVACIDPWVYAISHPKYRQE   350
Lycaena rubidus UVRh  .....A........R.........A..A...................   350

Vanessa cardui  UVRh  LQRRMPWLQINEPDDNASTGTNNTANSSAPAT-A                  384
Lycaena rubidus UVRh  .............S.T.....T..T..T...AS.                  384
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FIG. S3