

H.sapiens-alpha1	.....SKVDRLSRIAPFLPLFGI	433
H.sapiens-alpha2	.....SKVDRMSRVFPVFLFGI	431
H.sapiens-alpha3	.....SKVDRKISRIFFVFLFAI	468
H.sapiens-alpha4	TIG.....ATGKLSATFP.....FSAPFPSSGGSTSKDKVYARLLFFVFGA	532
H.sapiens-alpha5	.....SKVDRMSRVFPVFLFGI	439
H.sapiens-alpha6	.....NKVITRAPIQLSTFV.....FPPLSFAPGGSTSKDKVYARLLFFVFAAG	431
H.sapiens-beta1	.....IDKWSRMFFFTITSLFNVV.....YMLVYVH.....	474
H.sapiens-beta2	.....IDKWSRIFFVFESFNIV.....YMLVYVH.....	474
H.sapiens-beta3	.....IDKWSRIFFVFESFNIV.....YMLVYVH.....	473
H.sapiens-gamma1	.....IDSYRIFFFTAFAL	453
H.sapiens-gamma2	.....MDSYARIFFFTAFCFL	455
H.sapiens-gamma3	.....LDSYRVFFFTSFL	455
R.norvegicus-alpha1	.....SKVDRLSRIAPFLPLFGI	432
R.norvegicus-alpha2	.....SKVDRMSRVFPVFLFGI	484
R.norvegicus-alpha3	.....SKVDRKISRIFFVFLFAI	470
R.norvegicus-alpha4	TTG.....VFGNVATFP.....FSAPFPSSGGSTSKDKVYARLLFFVFGA	530
R.norvegicus-alpha5	.....SKVDRMSRVFPVFLFGI	441
R.norvegicus-alpha6	.....SKVLSRTPLLESTFV.....FPLLLPAIGGTSKDKVYARLLFFVFAAG	431
R.norvegicus-beta1	.....IDKWSRMFFFTITSLFNVV.....YMLVYVH.....	474
R.norvegicus-beta2	.....IDKWSRIFFVFESFNIV.....YMLVYVH.....	474
R.norvegicus-beta3	.....IDKWSRIFFVFESFNIV.....YMLVYVH.....	473
R.norvegicus-gamma1	.....IDSYRIFFFTAFAL	453
R.norvegicus-gamma2	.....MDSYARIFFFTAFCFL	454
R.norvegicus-gamma3	.....LDSYRVFFFTSFL	453
D.erio-alpha1	.....SKVDRMSRVFPVFLFGI	435
D.erio-alpha4	SKRFTLLSQSSSTSEGTSSFSQSRLLSPSSASQNAASSSSAKTTFPAPSTTVEFRSFGTIFAGSAPLHLLGFKLENIKKKAQAQCPAARATGGASDEXARLFFVFGA	537
D.erio-alpha6	.....EAPRTRVFLIQSAPFFNNMLA.....GTSARLKYSRLLFFLAFGI	373
D.erio-beta2	.....YMLVYVH.....	519
D.erio-gamma2	.....IDSYRIFFFTAFAL	464
F.dominula-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	471
H.saltator-RDL	.....KDIITLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	472
L.atriatella-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	471
A.mellifera-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	470
T.castaneum-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	476
C.felis-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	477
N.lugens-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	472
D.melanogaster-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	601
B.mori-RDL2	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	489
B.mori-RDL3	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	484
B.mori-RDL1	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	476
F.xylosteila-RDL2	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	514
F.xylosteila-RDL1	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	479
A.funeus-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	551
D.simulans-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	601
A.aegypti-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	527
O.oryzae-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	469
M.domestica-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	570
S.furcifera-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	473
N.vitripennis-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	433
L.cuprina-RDL	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	545
S.litura-RDL1	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	479
S.litura-RDL2	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	493
T.cinnabarinus-RDL3	.....EPPPTPIKTRHSTGKCKNPN.....RLGVSP.....SDIKYSRVVFCVFCIC	703
T.cinnabarinus-RDL2	.....FGNCPPTFVFGKCPNPN.....RLGVSP.....SDIKYSRVVFCVFCIC	503
T.cinnabarinus-RDL1	.....FGNCPPTFVFGKCPNPN.....RLGVSP.....SDIKYSRVVFCVFCIC	757
C.sallei-RDL	.....FS.....TLGVTF.....SDIKYSRVVFCVFCIC	456
C.suppressalis-RDL1	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	479
C.suppressalis-RDL2	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	490
Consensus	.....KDISKLYGTFSD.....IDKYSRIFFVFCVFCNLM.....YMYVYLVHSVADVADLV	

H.sapiens-alpha1	.....MRSKGLSDCLWAWILLSTLGRSY.GGFSLQ.....DELKDN.....TTVETRIIDRLDGDVNR	56
H.sapiens-alpha2	.....MFTKLNLYMGLFVFLVWDFARLV.LANICE.....DEAKNN.....TTVETRIIDRLDGDVNR	56
H.sapiens-alpha3	.....MIIQTSHCVMSLGLFELHLLKFTIQGGERPQGFVQDGLGSESRV.HAPDIP.....DESDN.....TTVETRIIDRLDGDVNR	61
H.sapiens-alpha4	.....MYSARVPAALSGASVAFRLFLCLACV.LNESPQN.....GHEEKLCETETRIIDRLDGDVNR	62
H.sapiens-alpha5	.....MNDGMSGFMIMRNLFCISMNLSH.FGFSQMTSSVQDETNDN.....TTVETRIIDRLDGDVNR	63
H.sapiens-alpha6	.....MASSLFWLCLIL.LENALGHL.....EVEGNFYEMVSRIDMLDGDVNR	46
H.sapiens-beta1	.....MWTQVRESLGLLSEFVIMT.....VCCAR..STNEFS.N.MS.....YVETVTR.LL.R..GVDLR	51
H.sapiens-beta2	.....MNVRRRGVYGIWSEFLIAA.....VCAQ..SVNDF.N.MS.....LVETVTR.LL.R..GVDLR	50
H.sapiens-beta3	.....MCSGLELLFIMLWSTLGR.....GSEF..RSVND.FGN.MS.....FVETVTR.LL.R..GVDLR	51
H.sapiens-gamma1	.....MGLFPAFLFSPFL.LKQSGRVRLVLLTLHLGNCVADDEDEEDLTVN.R.TWVLA.....R.H.....EGVITVILNHLRDXK	78
H.sapiens-gamma2	.....MSSFNWSTGSSVYIF.....MMLLWFLFSLM.HENAGGL.....EDEGNFYEMVSRIDMLDGDVNR	63
H.sapiens-gamma3	.....MREKLLLLCLFSLHARSRVVEEEDSDSN.Q.KWVLA.....P.SC.....DIVVILNHLRDXK	61
R.norvegicus-alpha1	.....MRSKGLSDCLWAWILLSTLGRSY.GGFSLQ.....DELKDN.....TTVETRIIDRLDGDVNR	55
R.norvegicus-alpha2	.....MFTKLNLYMGLFVFLVWDFARLV.LANICE.....DEAKNN.....TTVETRIIDRLDGDVNR	109
R.norvegicus-alpha3	.....MIIQTSHCVMSLGLFELHLLKFTIQGGERPQGFVQDGLGSESRV.HAPDIP.....DESDN.....TTVETRIIDRLDGDVNR	61
R.norvegicus-alpha4	.....MYSARVPAALSGASVAFRLFLCLACV.LNESPQN.....GHEEKLCETETRIIDRLDGDVNR	62
R.norvegicus-alpha5	.....MNDGMSGFMIMRNLFCISMNLSH.FGFSQMTSSVQDETNDN.....TTVETRIIDRLDGDVNR	63
R.norvegicus-alpha6	.....MASSLFWLCLIL.LENALGHL.....EVEGNFYEMVSRIDMLDGDVNR	46
R.norvegicus-beta1	.....MWTQVRESLGLLSEFVIMT.....VCCAR..STNEFS.N.MS.....YVETVTR.LL.R..GVDLR	51
R.norvegicus-beta2	.....MNVRRRGVYGIWSEFLIAA.....VCAQ..SVNDF.N.MS.....LVETVTR.LL.R..GVDLR	50
R.norvegicus-beta3	.....MCSGLELLFIMLWSTLGR.....GSEF..RSVND.FGN.MS.....FVETVTR.LL.R..GVDLR	51
R.norvegicus-gamma1	.....MGLFPAFLFSPFL.LKQSGRVRLVLLTLHLGNCVADDEDEEDLTVN.R.TWVLA.....R.H.....EGVITVILNHLRDXK	78
R.norvegicus-gamma2	.....MSSFNWSTGSSVYIF.....MMLLWFLFSLM.HENAGGL.....EDEGNFYEMVSRIDMLDGDVNR	79
R.norvegicus-gamma3	.....MREKLLLLCLFSLHARSRVVEEEDSDSN.Q.KWVLA.....P.SC.....DIVVILNHLRDXK	61
D.erio-alpha1	.....MMSGGRGANWIMWACLIVNALAGK.SSSQNA.....DEQDN.....TTVETRIIDRLDGDVNR	56
D.erio-alpha4	.....MYSARVPAALSGASVAFRLFLCLACV.LNESPQN.....GHEEKLCETETRIIDRLDGDVNR	62
D.erio-alpha6	.....MIIQTSHCVMSLGLFELHLLKFTIQGGERPQGFVQDGLGSESRV.HAPDIP.....DESDN.....TTVETRIIDRLDGDVNR	61
D.erio-beta2	.....MESIGHTPHILLCPLIVAV.....ACAC..SIRDF.N.ME.....YVETVTR.LL.R..GVDLR	49
D.erio-gamma2	.....MVMASLHFSHCINAMAFVTLRLMAFLIAHLFSLVQLESDD..DEVIN.R.TWVLA.....R.VY.....ESVITVILNHLRDXK	80
F.dominula-RDL	.....MRSLHNASWFALLAATVALLPAPTHA.....FFAHAATGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	59
H.saltator-RDL	.....MGSFVHNASWFALLAATVALLPAPTHA.....FFAHAATGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	59
L.atriatella-RDL	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	55
A.mellifera-RDL	.....MRSFNASWFALLAATVALLPAPTHA.....FFAQAATGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	58
T.castaneum-RDL	.....MGSFVHNASWFALLAATVALLPAPTHA.....FFAQAATGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	51
C.felis-RDL	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	57
N.lugens-RDL	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	56
D.melanogaster-RDL	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	73
B.mori-RDL2	.....MHSNTRRGVHI.AVVGLAIAWLFHAD.....HAAGT..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	57
B.mori-RDL3	.....MSAVRHAI..LLALAAFLPCAN.....RVAGG..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	52
B.mori-RDL1	.....MSGAKERTAP..LLALAAFLPCAN.....RVAGG..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	54
F.xylosteila-RDL2	.....MCGRGRGVPGAVVLLAVALCFHAD.....HAAGA..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	57
F.xylosteila-RDL1	.....MCGRGRGVPGAVVLLAVALCFHAD.....HAAGA..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	54
A.funeus-RDL	.....MSLIEVPHARSVGLVITLMAFLPQINRFPYVLAGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	74
D.simulans-RDL	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	53
A.aegypti-RDL	.....MSLIEVPHARSVGLVITLMAFLPQINRFPYVLAGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	68
O.oryzae-RDL	.....MGSFVHNASWFALLAATVALLPAPTHA.....FFAQAATGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	51
M.domestica-RDL	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	71
S.furcifera-RDL	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	56
N.vitripennis-RDL	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	20
L.cuprina-RDL	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	71
S.litura-RDL1	.....MHSNTRRGVHI.AVVGLAIAWLFHAD.....HAAGT..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	54
S.litura-RDL2	.....MHSNTRRGVHI.AVVGLAIAWLFHAD.....HAAGT..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	57
T.cinnabarinus-RDL3	.....MHSNTRRGVHI.AVVGLAIAWLFHAD.....HAAGT..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	57
T.cinnabarinus-RDL2	.....MHSNTRRGVHI.AVVGLAIAWLFHAD.....HAAGT..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	59
T.cinnabarinus-RDL1	.....MHSNTRRGVHI.AVVGLAIAWLFHAD.....HAAGT..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	52
C.sallei-RDL	.....MREGMIAASMLCVLLAVALCFHAD.....HAAGA..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	54
C.suppressalis-RDL1	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	52
C.suppressalis-RDL2	.....MHSNTRRGVHI.AVVGLAIAWLFHAD.....HAAGT..GGGMF.G.DV.....NISALDLS.FSV..SVDLR	57
Consensus	.....MRSALWLVAVITILLPAPDRP.....FVL.AGTGGGSM.L.G.DV.....NISALDLS.FSV..SVDLR	

H.sapiens-alpha1	FNLVYVWATYLNREPFQLKAPTFHG...	456
H.sapiens-alpha2	FNLVYVWATYLNREPFVLGVSP.....	451
H.sapiens-alpha3	FNLVYVWATYVNRRESAIRGMIRKQ...	491
H.sapiens-alpha4	FNLVYVWVYVLSKRDIMERSESLM...	554
H.sapiens-alpha5	FNLVYVWATYLNREPFVIRGAASPR...	462
H.sapiens-alpha6	FNLVYVWVYVLSKRDIMEVSSSVE....	453
H.sapiens-beta1	.....	474
H.sapiens-beta2	.....	474
H.sapiens-beta3	.....	473
H.sapiens-gamma1	FNLVYVWVGYLYL.....	465
H.sapiens-gamma2	FNLVYVWVGYLYL.....	467
H.sapiens-gamma3	FNLVYVWVGYLYL.....	467
R.norvegicus-alpha1	FNLVYVWATYLNREPFQLKAPTFHG...	455
R.norvegicus-alpha2	FNLVYVWATYLNREPFVLGVSP.....	504
R.norvegicus-alpha3	FNLVYVWATYVNRRESAIRGMIRKQ...	493
R.norvegicus-alpha4	FNLVYVWVYVLSKRDIMERSESLM...	552
R.norvegicus-alpha5	FNLVYVWATYLNREPFVIRGATSPF...	464
R.norvegicus-alpha6	FNLVYVWVYVLSKRDIMEVSSSVE....	453
R.norvegicus-beta1	.....	474
R.norvegicus-beta2	.....	474
R.norvegicus-beta3	.....	473
R.norvegicus-gamma1	FNLVYVWVGYLYL.....	465
R.norvegicus-gamma2	FNLVYVWVGYLYL.....	466
R.norvegicus-gamma3	FNLVYVWVGYLYL.....	467
D.rerio-alpha1	FNLVYVWATYLNREPFQLQGMNLEGFH...	459
D.rerio-alpha4	FNLVYVWVYVLSKRDIMEVSSSVE....	557
D.rerio-alpha6	FNLVYVWVYVLSKRDIMEVSSSVE....	395
D.rerio-beta2	.....	519
D.rerio-gamma2	FNLVYVWVGYLYL.....	476
P.dominula-RDL	LLREAK.....	477
H.saltator-RDL	LLREAK.....	470
L.striatella-RDL	LLREAK.....	487
A.mellifera-RDL	LLREAK.....	476
T.castaneum-RDL	LLRECK.....	482
C.felis-RDL	LLGECK.....	483
N.lugens-RDL	LLRECK.....	478
D.melanogaster-RDL	LLGEE.....	606
B.mori-RDL2	LLGEEN.....	495
B.mori-RDL3	LLRECK.....	489
B.mori-RDL1	LLGECK.....	492
P.xylostella-RDL2	LLGDIN.....	520
P.xylostella-RDL1	LLRECK.....	485
A.funestus-RDL	LLGECK.....	557
D.simulans-RDL	LLGEE.....	606
A.aegypti-RDL	LLGECK.....	533
O.oryzae-RDL	LLRECK.....	475
M.domestica-RDL	LLRECK.....	576
S.furcifera-RDL	LLRECK.....	479
N.vitripennis-RDL	FNLVYVWVYVLSKRDIMEVSSSVE....	459
L.cuprina-RDL	LLGEE.....	550
S.litura-RDL1	LLRECK.....	485
S.litura-RDL2	LLGEEN.....	499
T.cinnabarinus-RDL3	FNLVYVWVYVLSKRDIMEVSSSVE....	728
T.cinnabarinus-RDL2	FNLVYVWVYVLSKRDIMEVSSSVE....	522
T.cinnabarinus-RDL1	FNLVYVWVYVLSKRDIMEVSSSVE....	781
C.salei-RDL	FNLVYVWVYVLSKRDIMEVSSSVE....	478
C.suppressalis-RDL1	LLRECK.....	485
C.suppressalis-RDL2	LLGEEN.....	496
Consensus		