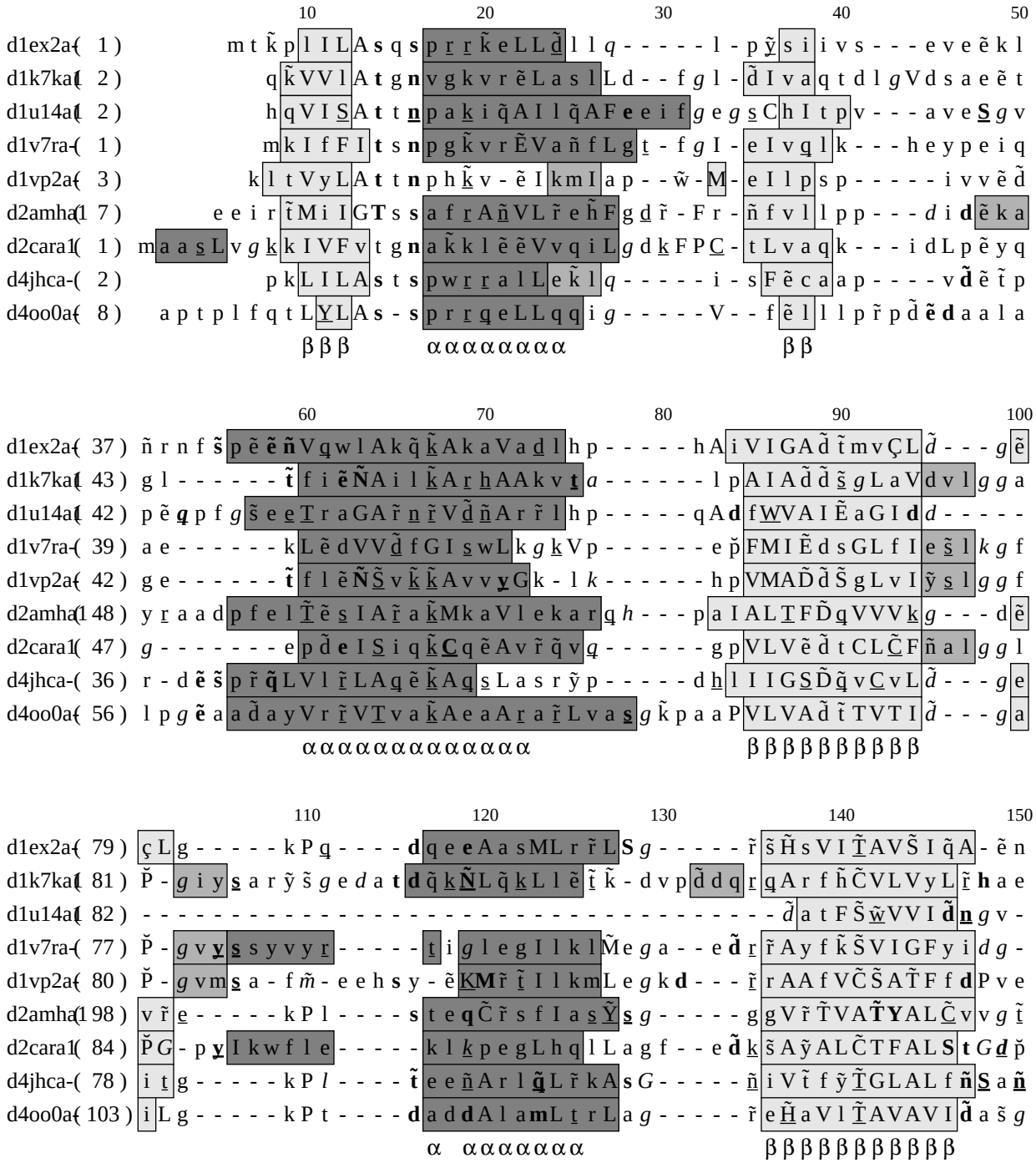
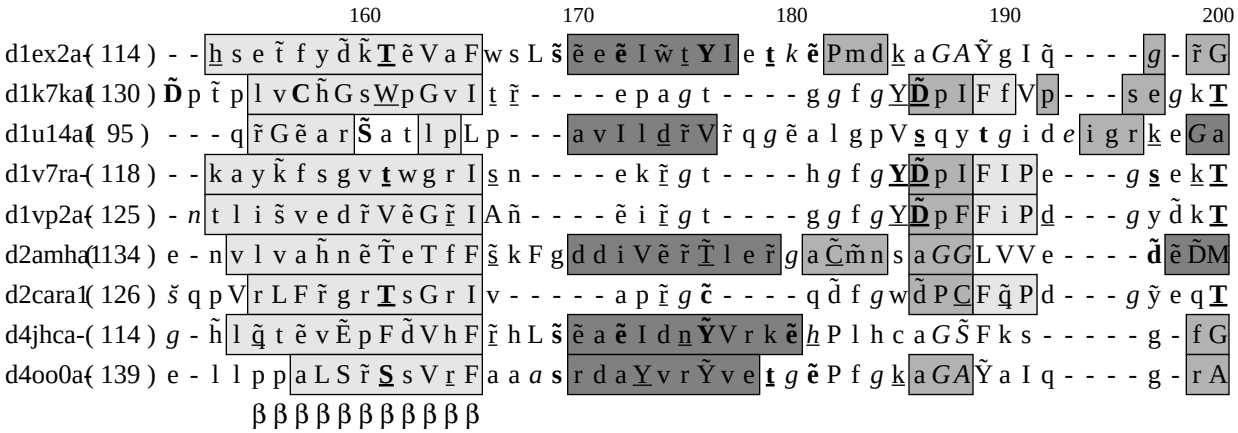

10 20 30 40 50
d1ex2a- (1) mtkplILAsqsprrkeLLdllq-----l-pysiivs---eveekl
d1k7ka1 (2) qkVVlAtgnvgkvreLaslLd--fgl-dIvaqtdlgVdsaeet
d1u14a1 (2) hqVISAttnpakiqAIlqAFeeifgegsChItpv---avesgv
d1v7ra- (1) mkIffItsnpgkvrEVañfLgt-fgI-eIvqlk---heypeiq
d1vp2a- (3) kltVyLAttnphkv-eIkmIap--w-M-eIlpsp-----ivved
d2amha1 (7) eeirtMiIGTssafrAnVLrehFgdr-Fr-nfvllpp---dideka
d2cara1 (1) maasLvgkkIVFvtgnakklehVvqiLgdkFPC-tLvaqk---idLpeyq
d4jhca- (2) pkLILAstspwrralLekl q-----i-sFecaap-----vdetp
d4oo0a- (8) aptplfqtLYLAs-sprrqeLLqqig-----V--fellllprpdeda a l a
ββ ααααααααα β β
60 70 80 90 100
d1ex2a- (37) nrnfspeenVqwlAkqkAkaVadlhp-----hAiVIGAdtmvÇLd---ge
d1k7ka1 (43) gl-------tfieÑAilkArhAAkvta-------lpAIAddsgLaVdvlgga
d1u14a1 (42) peqpfgšeeTraGArnrVdñArrlhp-----qAdfWVAIEaGIdd-----
d1v7ra- (39) ae-------kLedVVdfGIswLkgkVp-------epFMIEdsGLfIesl kgf
d1vp2a- (42) ge-------tflešŠvkkAvvyGk-lk------hpVMADdSgLvIysl ggf
d2amha1 (48) yraadpfelTesIAranMkaVlekarqh---paIALTFDqVVVkg---dê
d2cara1 (47) g--------epdeISiqkCqêAvrqvq------gpVLVedtCLCFñalggl
d4jhca- (36) r-deešpřqLVlřLAqêkAq sLasrỹp-----dhlIIGSDqvCvL d---ge
d4oo0a- (56) lpgeaadayVrřVTvakAeaArařLvasgkpaaPVLVAdtTVTI d---ga
αααααααααααααα ββββββββββ
110 120 130 140 150
d1ex2a- (79) çLg-----kPq----dqeeAasMLrřLSg-----řšHsVITAVSIqA-ên
d1k7ka1 (81) P-giysarỹšgedatddqkÑLqkLlet k-dvpddqrqArfhČVLVyLřhhae
d1u14a1 (82) ----------d atFSw VVIdngv-
d1v7ra- (77) P-gvyssyvyr-----tigleglIklMegaa--edřrřAyfkSVIGFyi dg-
d1vp2a- (80) P-gvmsa-fm-eehsy-ekMřtIIlkmLegkd---řrAAfVCSATFfdPve
d2amha1 (98) vře-----kPl----steqCřsfIassYsg-----ggVřTVATTYALCvvgt
d2cara1 (84) PG-pyIkwfle-----klkpegLhqlLagf--edkšAỹALCTFALStGdp
d4jhca- (78) it g-----kPl----teeñArlqLřkAsG-----ñiVtfỹTGLALfñSañ
d4oo0a- (103) iLg-----kPt----daddAlamLtrLag-----řeHaVlTAVAVIdašg
α ααααααα ββββββββββ


160
170
180
190
200
d1ex2a-
d1k7ka1
d1u14a1
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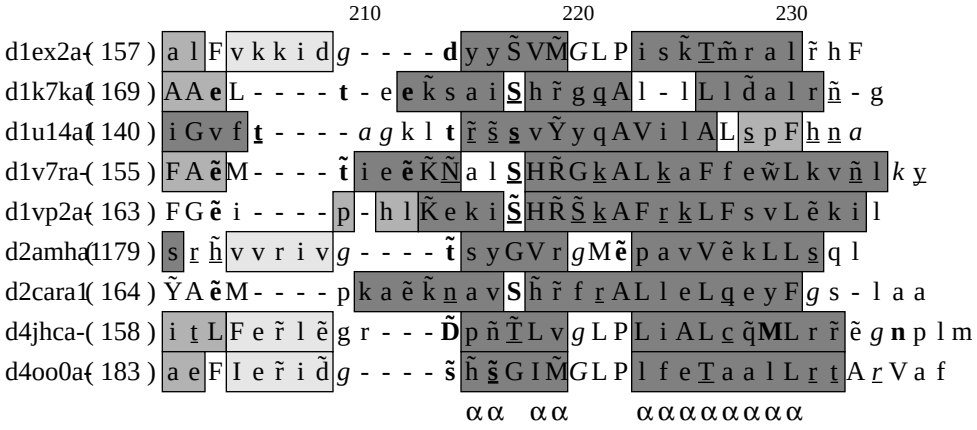
d1vp2a-
d2amha1
d2cara1
d4jhca-
d4oo0a-
β β β β β β β β β β β


210
220
230
d1ex2a-
d1k7ka1
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d1v7ra-
d1vp2a-
d2amha1
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d4jhca-
d4oo0a-
α α α α α α α α α α