

StAOX - -MMTRG-ATRMRTRVVMGHMGPRYFSTVLRNDPDTGVVGGAAAGLLHGFPANPSEKAVVTW 59
 NgAOX1a - -MMTRG-ATRMRTRVMGYMGPRYFSTVLRNDARTGVMTG-AAGFMHGVPANPSEKAVVTW 58
 AtAOX1A - -MMITRG-GAKAAKSLLVAAAGPRLFSTVVRTVSSHEA-----LSASHIL-KPGVTS-AW--IW 51
 LcAOX1 - -MMTRG-GTKLANSLVLAGHRFLSTATAKAASNT-----AVAGFLT-ERTVGRPAWNTTF 53
 PtAOX MMMASRGEGVKLASSMMLFSRSFSTAISRGI IAKEA-----VTAKAVE-CHGDVVRKNIGEF 56
 OsAOX - -MSSRM-----AGATLLRHLGPRLFAAEPVYSGLAAS-----ARGVMP----- 37

StAOX VRHFSAMGSRSSASTAALNDKQEQEKESDDKVENTATAAAA---NGGAG--KSVVSYWGVPPS 115
 NgAOX1a FRHFVAMGSRSSASTMALNGKQ-----HDKKVETGAAAS---VGGGDGDEKSVVSYWGVPPS 112
 AtAOX1A TRAPTIGGMRFASTITLGEKTPMKEEDANQKKTENESTGGDAAGGNKGDKGIASYWGVPEP 113
 LcAOX1 LVRSQLVGVRRNGGTALGQKN-----EEEEKKKAVD-----GGNDKDKKAVSYWVVEAP 103
 PtAOX WVRSVVFVGRHGSTMVSGEKDQKQVEMKQTQSVAE-----GGDKEEKKEIASYWGVPPS 110
 OsAOX -AAARIFPARMASTSSAGADVKEGAAEKLPEPAATAAAA---ATDPQNKKAIVSYWGIQPP 94

StAOX KATKPDGTEWKWNCFRPWETYEADMSIDLTKHHAPVTFLLDKFAYWTVKVLRFPTDVFQRRY 177
 NgAOX1a KVTKEDGTEWKWNCFRPWETYKADLSIDLTKHHAPTTFLLDKFAYWTVKALRYPTDIFQRRY 174
 AtAOX1A KITKEDGSEWKWNCFRPWETYKADITIDLKHHVPTTFLLDRIAYWTVKSLRWPTDFFQRRY 175
 LcAOX1 KLTKEDGTEWKWNCFRPWETYKADLSIDLKHHAPATFMDKLAFWTVKALRWPTDLFFQRRY 165
 PtAOX RVTKEDGAEWKWNCFRPWETYSADLSIDLKHHVPTATFLDKMAVWTVKALRFPTDLFFQRRY 172
 OsAOX KLVKEDGTEWKWLSFRPWDTYTSIDTSLKHHVPTFLDKMAYWTVKALRWPTDLFFQRRH 156

StAOX GCRAMMLETVAAVPGMVGGMLLHCKSLRRFEQSGGWI KALLEEAENERMHLMTFMEVAKPNV 239
 NgAOX1a GCRAMMLETVAAVPGMVGGMLLHCKSLRRFEQSGGWI KALLEEAENERMHLMTFMEVAKPNV 236
 AtAOX1A GCRAMMLETVAAVPGMVGGMLLHCKSLRRFEQSGGWI KALLEEAENERMHLMTFMEVAKPKW 237
 LcAOX1 GCRAMMLETVAAVPGMVGGULLHCKSLRRFEHSGGWI KALLEEAENERMHLMTFMEVTKPKW 227
 PtAOX GCRAMMLETVAAVPGMVGGMLLHCKSLRRFEHSGGWI KTLLEDAENERMHLMTFMEVAKPRW 234
 OsAOX ASHALLETVAVGVPGMVGGMLLHLRSLRRFEQSGGWI RALLEEAENERMHLMTFLEVMPQRW 218

StAOX YERALVFAVQGVFFNAYFAAYLISPKLAHRI VGYLEEEAVHSYTEFLKELDNGNIENVPAPA 301
 NgAOX1a YERALVFAVQGVFFNAYFVYTLISPKLAHRI VGYLEEEAHSYTEFLKELDKGNIENVPAPA 298
 AtAOX1A YERALVITVQGVFFNAYFLGYLISPKFAHRMVGYLEEEAHSYTEFLKELDKGNIENVPAPA 299
 LcAOX1 YERALVITVQGVFFNAYFLGYLISPKFAHRMVGYLEEEAHSYTEFLKELDKGNIENVPAPA 289
 PtAOX YERALVITVQGVFLNAYFLGYLISPKFAHRMVGYLEEEAHSYTEFLKELDKGNIENVPAPA 296
 OsAOX WERALVLAAGGVFFNAYFVGYLVSPKFAHRFVGYLEEEAVSSYTEFLKDLLEAGKIENVPAPA 280

StAOX IATDYWRLPKDATL RDVVLVVRADAEHHRDRCQPLCI----- 337
 NgAOX1a IATDYWRLPKDSL RDVVLVVRADAEHHRD VNHFASDIHYQQQLKDS PAPIGYH 353
 AtAOX1A IATDYWRLPADATL RDVVMVVRADAEHHRD VNHFASDIHYQQRELKEAPAPIGYH 354
 LcAOX1 IATDYWRMPDSTL RDVVMVVRADAEHHRD VNHFASDVHYQQRELREAPAPIGYH 344
 PtAOX IATDYWRLPADATL RDVVLVVRADAEHHRD VNHFASDIHYQQRELKEAPAPIGYH 351
 OsAOX IATDYWRLPADATL KDVVTVI VRADAEHHRD LNHFASDIQQQGMKLDTPAPIGYH 335