




logo

CYP21A2 ...EILNYIIPSCDLLMLSPFW.LHRNPKYFPEPLEKPERWKKANLEKHS.....FLDCFMAGFSCKFCQPARWFALLEVQMCIILIIYKYDCSLLD 441
CYP2C8 KMSSGQEYLFRHGDLIALFPYLSVMHDPDIHEPTVFKYDRFILPNNGSRKVDFFKTGKKIHHTMPWGSGVSICPRGFALSEVKLFILLMVTHFDLELVD 467
CYP4F22 SSETG.DYCVRKGDVLIAFFPYV.LHGDEIFEAPBEERYDREIE.DGKKKTTFCKRGKKLKCYLMPFGTGTSTKCPGRFFALLMEIKQLLVILTIFYDLEIID 476
CYP4F2 HLEDG.SYNIRKDDIIALYPQL.MHLDEPIYDPLTEKYDRYIDENGKTKTTFYCNGLKLKYYIMPFGSGATICPGRLFAIHEIKQFLILMLSYPELELIE 471
CYP4X1LQNYHIPAGTLVRVFLYS.LGRNPALFPRPERYNPQRWLDIRG.....SGRN..FYHVVPFGFGMRQCLGRRRLAEAEMLLLLHHVVKHLQVETL. 476
CYP4F8LQNYHIPAGTLVQVFLYS.LGRNAALFPRPERYNPQRWLDIRG.....SGRN..FHHVVPFGFGMRQCLGRRRLAEAEMLLLLHHVVKHFLVETL. 476
CYP27B1LGEYALPKGTVLMLNTQY.LGSSEDNFEDSSQERPERWLQEKE.....KINP..FAHLPFVGVRKMCIARRLAELQLHLALCWIVRKYDIQAT. 488
CYP4V2VGDIYIPKNLTVTLCHYA.TSRDPAQFFEPNSERPARWLREGS.....TPHP..FASLPFGFGKRSCMGRRRLAELELMALAQILTHEVEQPPEP 482
CYP26B1VDGFLPKNTQFVFCHYV.VSRDPAFSEPESEQPHRWLRNSQPATPR...IQHP..FGSVPFYGVRACLRRIAELEMQLLLARLIQKYKVV LAP 503
CYP24A1LDGFQIPKGWSVMYSIRD.THDTAPVFKDVNVDPDRFSQARS....E...DKDG.RFHLYLPFGGGVRTCLGKHLAKLFLKVLAVELASTSRFELAT 468
CYP11B1LNGYQIPKGWNVIYSICD.THDAEIFTNKEEFNPDRFMLPHP....E...D.AS.RFSFI PFGGGLRSCVKGFEAKILLKIFTVELARHCWDQLLN 469
CYP4A22 ...SISGYDIPLECTVIIPNLQG.AHLDETVEREPHEWPDRFLEPGK....N.....SRALA FGCGGARVCLGEPLARLELFVVLTRLLQAFTLLPSG 456
CYP2R1 ...SIGEFAVDKGTEVINLWA.LHHNEKEWHQPDQEMFERFLNPAG....T...QLISPSVSYLEPFGAGPRSCIGEILARQELFLIMAWLLQRFDLEVPD 469
CYP4F3SVLGHYIPKDTVVFVNQWS.VNHDP LKWPNPENEDPARFLDKDG....L...INKDLTSRMVIFSVGKRRCIGEELS KMQFLFVISILAHQCDFRA.. 495
CYP7A1 ...VLQGYTIPKGTILILPNLWS.VHRDPAIWKEKPEDFYPNRFLDDQG....Q...LIK...ETFIPFGIGKRVCMGEQLAKMELFLMFVSLMQSFATALPE 517
CYP2E1 ...VVRGYSIPKGT TVITNLYS.VHFDEKYWRDPEVFHPPERFLDSSG....Y...FAKK..EALVPFSLGRRHCLGEHLARMEMFLFFTAL LQRFHHLHFPH 475
CYP27A1 ...EVQGFRI PKGTTLITNLSS.VLKDEAVWEKPFREHPEHFLDAQG....H...FVKP..EAFLPFSAGRRACLGEPLARMELFLFFTSL LQHFSFSVPT 470
CYP11B2 ...IFRGYLIPKGT VVVPTLDS.VLYDNQEFDPPEKEKPEHFLNENG....K...FKYS..DYFKPFSTGKRVCAGEGLARMELFLLCAILQHFNLKPLV 464
CYP4F12 ...KFRNYLIPKGT TILISLTS.VLHDNKEFPNPEMDPHFLDEGG....N...FKKS..KYFMPFSAGKRICVGEALAGMELFLFLTSLIQNFNLKSLV 462
CYP39A1 ...KFRNYLIPKGT TIMALLTS.VLHDDKEFPNPIEDPGHFLDKNG....N...FKKS..DYFMPFSAGKRICAGEGLARMELFLFLTSLIQNFNLKSLV 462
CYP26A1 ...IDGVVRVPGNIPLLFSTYV.MGRMDTYFEDPLTENPDREFGP GAP....K....PR..FTYFPFSLGHRSCIGQQFAQMEVKVVM AKLLQRLEFRLVP 464
CYP2U1 ...IN.CMFIPKGVVVMIPS YA.LHRDPKYWTEPEKF LPERFSKKNK....D...NIDP..YIYTPFGSGPRNCIGMRFA LMNMK LALIRVLQNFSFKPCK 469
CYP2D6 ...VAGYR.VLKGT EAVIIPYA.LHRDPRYFPNPEEQPERFFENA....Q...GRHP..YAYVPFSAGPRNCIGQKFAVME EKTILSCI LRHFWIESNQ 494
CYP2C9 ...LPDGRVIPKGIICLVSIYG.THHNPTVWPDSKVYNPYREFDPDNP....Q...QRSP..LAYVPFSAGPRNCIGQS FAMAELRVVVALTLRFRLSVDR 502
CYP8B1 ...LPDSRVIPKGNVCNINIFA.IHHNPSVWPDEPVYDPFREDPENA....Q...KRSP..MAFIPFSAGPRNCIGQKFAMAEMKVVALTLRLFRILPDH 495
CYP3A4 ...LPDGRVIPKGIITCLIDIIG.VHHNPTVWPDPEVYDPFREDPENS....K...GRSP..LAFIPFSAGPRNCIGQAFAMAEMKVVALTMLLHFRVLPDH 495
CYP46A1 ...LPDGRVIPKGIICLVSVFG.THHNPAVWPDPEVYDPFREDPENI....K...ERSP..LAFIPFSAGPRNCIGQT FAMAEMKVVALTLRFRVLPDH 495
CYP7B1 ...LPDGRVIPKGIICLVSVFG.THHNPAVWPDPEVYDPFREDPKNI....K...ERSP..LAFIPFSAGPRNCIGQAFAMAEMKVVALGLTLRFRVLPDH 495
CYP4A11 ...FPDGCTLPAGITVVLSIWG.LHHNPAVWKNPKEVDPLRESQENS....D...QRHP..YAYLPFSAGSRNCIGQEFAMIELKV TIALILLHFRVTPDP 481
CYP17A1 ...FPDGRSLPKGIMVLLSIYG.LHHNPKVWPNPEVDPSRFAPGSA.....QHS..HAFLPFSGGSRRNCIGQFAMNELKVATALT LRFELLPPD 484
CYP1B1 ...FPDGRSLPKGIMVLLSIYG.LHHNPKVWPNLEVDPSRFAPGSA.....QHS..HAFLPFSGGSRRNCIGQFAMNQLKVARALT LRFELLPPD 484
consensus **** * * * * * * * * * * * * * ! ! * *

 non-conserved
 $\geq 50\%$ conserved
 $\geq 90\%$ conserved