

Signal peptide

TYRP1	MKSP TL LSLGYMFLVLLFFQQ...AWAQFPRF AT IEALRNGV CP DLSPLSGPGSDR GF SSGRGR EV AIADSRPHSHHYPHDGRDDREAWPTR	93
TYRP2	.MSPLGWGLLLGCLGCALPSG...ARAQFPRV CM TVGSLRAKE CC P...PLGADPANV GS WEGRGQ CA DVQTDTRPWSGPFVLRNQQDDRERWPRK	89
TYRMLLAALYCLLWSFR TS SAGHF FRA ASSKSLMEKE CC P...PWAGD GS P. GR LSGRGS QD VILSTAPLGPQFPFTGVDDRESWPSI	83

EGF-like domain

TYRP1	FFNRT RS SGNFSGHN GT CRPGWGGAA CD QR.VLTVRRNLLDLSTEEKNRFVQALDMAKHTTHPQFVIATRSEEILGPDGNTPFQFENISIIYNY	187
TYRP2	FFDRT RT TGNFAGNY GD CRFGWTGPK CD QKKPLVVRQDVHSLTPQEREQFLGALDLAKYTPHPDYVITTQHWLGLLGPNGTQPQIANCSIYDF	184
TYR	FYNRT IQ EGNFMGFN GS CKFGFRGPR CT ER.RLLVRRNIFDLSVPEKNKFLAYLTLAKHTTSPDYVIPTGTYG...QMNHGTTPLFNDVSVYDL	175

Metal ion-binding domain (a)

TYRP1	FVWTHYYSVKKTFLGAGQ ES FGEVDF SH EGPAFLTW RY HLLQLERDIQEMLQDPSFSLPYWNFATGKNT CD ICTDDL MG SRSNFDSLISPN SV	282
TYRP2	FVWLHYYSVRDTLLGPGRP.YKAIDFSHQGPAFV TW RYHLLWLERDLQRLTGNESFALPYWNFAPRRKE CD VCTDQLLGAARQDDPTLISQNSR	278
TYR	FVWMHYYVSRDTLLG.DSEVWRDIDFAHEAPGELP WE RLFLLLWEQEIQKLTGDENFTIPYWDWRDAEN. CE VCTDEYMGRNPANPNLLSPASF	268

TYRP1	FSQWRV V ESLEDYDTLGLT LN STEGGPIKRNPNAGNVARPMVQRLPEPQDIAQ LE VGSFDTPPFFYSNSTNSFRNTVEGYS.DPTGRYDPAVRSL	376
TYRP2	FSSWEIV DS LNDYNRRVTL NG TYEGLLKR NQ MG...RNSEKLP TL KDIQ NL SLNKFDSP PP FQNSTLSFRNALEGFG.KADGTLDSQVMSL	368
TYR	FSSWQII SR LLEYNSRQAL NG TSEGPLLRNPGN.HDKARTPRLPSSADVEF LS LTQYESGSM DK AANFSFRNTLEGFASPLTGIADASQSSM	362

TYRP1	HNL HL FLNGTGGQTHLSPNDPIFVLLH FT DAVDFE WL RRYNADISTFPLENAPIGHNRQYNMVPF FW PPITNIEMFVTAPDNLGYTYEVQWPGR	471
TYRP2	HNLVHSFLNGTSTLPHSAANDPVFVVLH SF DAIFDE WM KRFNPPVD AW PQELAPIGHNRMYNMV PF FPVTNEELFLTA.DQLGYSY AI DLFVE	462
TYR	HNALHIY MG TMSQVPGSANDPIFLLH HA FVDSIFEQ WL RKYHPLQDVYPEANAPIGHNRESY MP FIPL YR NGDFFISS.KDLGYDYSYLQDSE	456

Metal ion-binding domain (b)

TYRP1	S.....FSIPEIVTIAVVAALLLVAVIFAGASCLIRARSN.MDEANQPL LD ..QYQH...YIEENEKIHNPNQSM	536
TYRP2	E.....TPDWTTVLSVVTGMLMVLV VL FALLLFLQYRR...LRKGYT PL TET..QLSNKRYTEEA.....	517
TYR	PDIFQDYIKPYLEQARRIWPWLTGA AV VGSVLTAVLGG LT SLLCRRKR NQ LPEEKQPL ME KEDYHNVLYQSHL.....	530