MTTKRYLCVLLCLTSYLTYSSGMMTQVRKEEYLGCFTESEESRVFSSGPGDYDPHDISPIRCLEQCGIKYKYAALQDGRLCLCSNTLPGTPKLDDSECNTPCPGSSKWPPSEHYLKCGG (WSC carbohydrate binding domain)PLKNSVYNAGERILGFTLQKIESLNILEPVNIHGGITN GINVSYVFDLGDGTLVTKPSSEPKARHIYDKPGSYVVTATASNIISGEVVASEVYNVDDPRNNIRLTCPRAAEVGQIVECNGTMDRGSRVNSTFVFSDGRTDRMSISSRYYSAGTIVPRGNDSSVIPVLNTPGTILIPAYEFQHDGQVTHWDFEIVEKGTIKLMILRPECSAGEEYCTSTRSCKISSSSCLPLKQKKCSSDEMFCMIQKRCVSNAYTTTQDANNNPVKVYTSSSTCPIQAPYQWSEPRADYRILFVQEISLETIGHHISAIPLAQQPFVKEGDILGWLPVTGYLAYKSVADHEGASFEYSSGVSAVNDKLLRSGSTTLHQKHFVFAAHYAHVAKFVVRNRFGTPGLKSLTSNITEPLYLYIDYPIRNVTFEASKFANTNDSVEFLVPEHPGTNTTYFWDFGNGESLYTHLPSISYAFPTEGVFYVSLRAENSISHTVLTFPISIFDPILEFEYKSPIKANALGTETLIEWKTSRGTNITFVVDFGDATPRYSAVTTLSGGRAVDTRHTYSAVGNYTVTVYAFNRVGPNITIVSYAVVEVPLEGLEFSVPNPHITKNIYLAAGDTMTVSRHYQKGTNIKCSCDFRDGTPPVLTTSQDMSHTYTNAGTYHVEITCFNDVNSITKPLNGTVVVQELQAITGLTVLTSATKFGTRSELLLEMATGSVFVCEWDFGDGNKTSTDFSFMGQTMYYTYVAVDTYNVAVTCTNRVGSVTARAVAPVDIPIDGVIISNNKRYIKVGEPVRLDVTVQKGTRMLYTVSYGDASTGSLSRDAAKAPSLADHESFTHAYATDGSYTVKVNVSNSYGWKEETLGETIMAQYPVEGIILRSNSPVRLSSGNVTYFISVLEGANPPTGAYAVWSFGDNSPVTTPEPIYDLRQKTYMRSHRFMINNTFTTTVNISNQVSHEVLAIDVRIQMLVGVIITPLLVTNATLFTITNGYGPEMNYFEVNKLIAFTSSSQLGDRTWAWEFGDGASTNVSSIPTSTHTFNTSGTYAVRVVVNNFLDVLEAEKTVFIXDPVGNVTLSSQLPTYYREPTVFNFQVTSRGSQSCLKLSLGDNNGAIFGQRHCRPSVMVANVTFIPVPENQTSFNYSYMYIYRGNYSVELTLWNFVSSQSVVWPIEIADLP(PKD domain)CDYPIVRIDSEGTKTSPRKVKKSEPLVLPADVRYKCPVGKRIIFSWKAYEVTLLNPDDESRPFNLPVNEIKTFDLPARDTIMDAGSIKIKERTFPFITLKFTLEVGFVGSDRDLTHFTHSHSVWIEVEKSLLYAVIRGGQRKSVGYEMDMLLDGSESKDPDNPTNTTGIVYTWWCRRDEESFPSAFDAPNPTGGCYGNGNYQLNGSTSEISVYTGAFLQNAVYVFRIKVVKEEREALFDQYITILPGQPPTMNLKCNFNCLAKTNPIERLVMETTCQDCKPTDILGYEWSLHRLLLGKDPDQIDSWETINPTSWAVNTSTGIDKGNLVINSHFLEPSRSYFLRLNAWKPGGYPGGFVEHRFTVNTAPTSGSCSVDPLEGFALDTTFQVKCDGWVDPDTPLKYLVELRNGADIVPISDGFEPYTSAVFPLGKEENNYTLTVNVKVMDMFFLDATTKFSVRVTEPITIDYNEVGGSVASAAGSGNAQEATQVTNA(REJ module)VCSVLNAKACKEEDDPNAKDARADFRGEV AKSMATLPVDSFDGAAQKGEALNGLTAMPDEIKEDAQEAVTDAMNEIGDFLAKDNSGRNLDNTAKSLISGIGNIVGASSNTAKKALNSTCGDPSKSTNNTKKALDLVEIVSSACMKQLVAGDKPKXIKTDNIDLAIGRKDLSDLANDDEDESEGDTGGFSLPDPAMLFGGANASTEEGATSGIGSTMTAMGDNPFPGGSDDLNSKTIGLSLTDGNGNPLDLAGQTLEMYVPRDLKKNPLKPMELNHFGPNDPVMRVHKFNRTTNLTAIAVEIQPFDPQIKFRIHVRFETRPSATHFHWNHTFPSLEEAAKMKRRPHPFTFVINHVVLRDTLLSSNASDNGTVFNSTMGSYFLGIKAINKDSLSSANTSYAMRIYLPACKSFDVDTNTWTTNGCVVGNKTRANITHCVCR(GPCR proteolytic site)PGEDEPEDIDPTAVPPGAAIGNAASSTGDDTSSGGPVRVRRFKRKKVFK LSLASSFFPAPNPIDFDKVFANVNFAENPIALSVVLSIFGVYLILAIY(TM1)SRREDKKDIERAGVTPLEDNDPSDRYHYEITVYTGFGKKAATTAQVSFILAGDEGEGEPRILKDPKRKTFQRRGIDVFLVTYPESLGEINYLHIWHDNTGRSPSWYLSRVMVEDINNDKKYMFINESWLAVEEGDGTVDRLIPVA(PLAT domain)GKDEMTSFNHLFYSTTQKNLADGHLWFSIFMRP ARSRFTRLQRVSCCLTLLYCSMLANAMF(TM2)YNIGGETDPSQTLQIGPLAFSPAQVGIGIMSSLVIVPVNIFLVAVF(TM3)RGVEPMPTPAELKERKSRKYWWFYEIFFCFFDRNPKKNDFIQILHKNHKPDDFLDLSSSSRTNLAFNDSLDLGLGDDDINFRISKQEKREEMEKKQKKKKKKKKQLPYWFLYIAWVVCGLTCFTCSFFVVLYG(TM4)LQFGHDKSAQWISSMLVSFFQDVLVSQPIKVVAIALIIAA(TM5)IIKKPPEEEDDGDKKKLEDEDWMHDDGNSEKRDKRMRPKGLIRLKPPNKEKLEKDRQQRFKEMKMSAMIKEVTLYTFFVACLCIVS(TM6)YSHRDPTSFQFRQSMYNTFVSGTYGGVRSFDSIGSRENFYDWAKTTLMTSLFKNTWYNGNPYDVGFTGDGIAYVVGGARMRQLRVEKHSCEVPYQFNKLVHNCKTWYGFFAEDTGQYDIAWEPLKNESLYKPPFTFKSWEFYESAELDSMPFMAYVSSYGGGGYAAELGQTEEHALRVIKTLENNTWIDSQTRAVFTEVSTYNPVSNLFCAMTFVVEFLPTNGVYLYMDLKVSRL(TOP domain)FATGGGFETFLVVCEFLVVVFFLIFIYQELK(TM7)QLYRMRKAYFKDFW NNIEFTMVILVLASVCMFLMRLKL(TM8)VESALTKLEKQGNTFVSFSRVSSWSEAFMIVVALLVFTTWLKGIKLL(TM9)RFNPRILMLTRTLKGAAGPLATFSVVFLVFFMSYALFAFAV(TM10)FGKDIQSFYNFVTTAESVMGLLLGSFDYGEIEEAQPILGPIFFFTFMVFGNFIIMNMFLTIIMDVF(TM11)AEVKEQLSEQNDSEFEVVEFMVRRFRKFTGMQPNKVNMEDAEDKKEMEERLKDDMTVFKVKKKKNRHRKLQPMDLVAQRFSRLDDSLKGFCCDEWAEERMLDDIVERKWGINTDEVNRSAQCELKLAEQQEAFRLDMYAALDNYEASPTDEDAFTFSFPDGEFKRDLSEA