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Product datasheet for RC206298

alpha 2 Glycine Receptor (GLRA2) (NM_002063) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 2 Glycine Receptor (GLRA2) (NM_002063) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	alpha 2 Glycine Receptor
Synonyms:	GLR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC206298 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCGGCAGCTAGTGAACATTTTGACAGCCTTGTTTGCATTTTTCTTAGAGACAAACCACTTCAGGA
CGGCTTTCTGCAAAGACCATGACTCCAGGTCTGGAAAACAACCTTCACAGACCCTATCTCCTTCAGATTT
CTTGGACAAGTTAATGGGAAGGACATCAGGATATGATGCAAGAATCAGGCCAAATTTTAAAGGTCCTCCA
GTAAACGTTACTTGCAATATTTTTATCAACAGTTTTGGATCAGTCACAGAAACGACCATGGACTACCGAG
TGAATATTTTTCTGAGACAACAGTGGAATGATTCACGGCTGGCGTACAGTGAGTACCCAGATGACTCCCT
GGACTTGGACCCATCCATGCTAGACTCCATTTGGAAACCAGATTTGTTCTTTGCCAATGAGAAGGGTGCC
AACTTCCACGATGTCACCACTGACAACAAATTGCTACGGATTTCGAAAAATGGCAAAGTGCTCTACAGTA
TCAGACTCACCTTGACCTTATCCTGTCCCATGGACTTGAAGAACTTTCCGATGGATGTCCAGACCTGTAC
AATGCAGCTGGAGAGTTTTGGGTACACGATGAATGACCTGATATTTGAGTGGTTAAGTGATGGTCCAGTG
CAAGTTGCTGAAGGATTGACCCTGCCCCAGTTTATTTTGAAAGAAGAGAAGGAACTTGGCTACTGTACAA
AGCACTACAACACTGGAAAGTTTACCTGCATTGAGGTCAAGTTTCATCTGGAACGCCAAATGGGATATTA
TTTGATCCAGATGTACATCCCAAGCCTGCTTATAGTAATTTTGTCCTGGGTTTCCTTTTGGATAAATATG
GATGCAGCCCCTGCCAGGGTCGCACTGGGCATCACCACAGTCTTAACGATGACCACCCAGAGTTCAGGCT
CCAGGGCATCTCTGCCAAAGGTCTCCTATGTAAAAGCGATTGACATCTGGATGGCGGTGTGCCTTCTGTT
TGTGTTTGCTGCCTTACTGGAATACGCAGCGGTGAACTTCGTCTCCAGGCAACACAAGGAGTTCCTGCGC
CTCCGAAGAAGACAGAAGAGGCAGAATAAGGAAGAAGACGTTACTCGTGAAAGTCGTTTTAATTTTAGCG
GTTATGGGATGGGTCACTGCCTCCAAGTGAAAGATGGAACAGCTGTCAAGGCCACACCTGCCAACCCACT
CCCACAACCGCCAAAAGATGGAGATGCTATCAAGAAGAAGTTTGTGGACCGGGCAAAAAGGATTGACACG
ATATCTCGAGCTGCCTTCCCATTGGCCTTCCTCATTTTCAACATCTTTTACTGGATCACATACAAGATCA
TTCGGCATGAAGATGTCCACAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206298 protein sequence
Red=Cloning site Green=Tags(s)

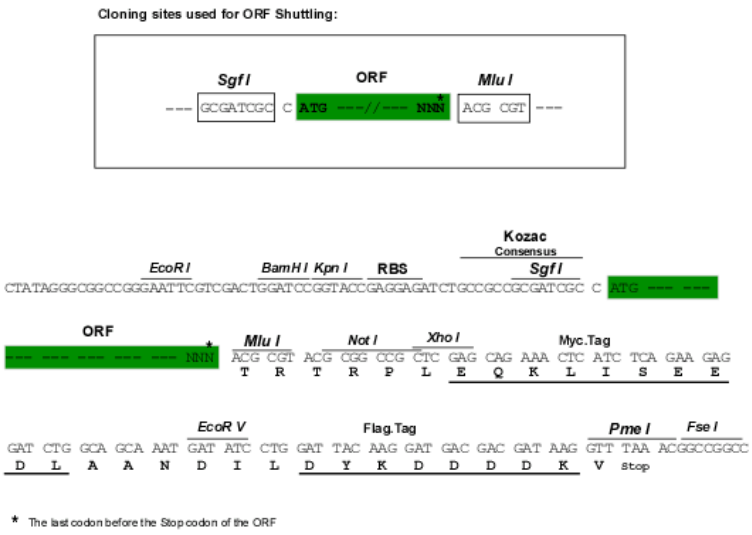
MNRQLVNILTALFAFFLETNHFRTAFCKDHDSRSGKQPSQTLSPSDFLDKLMGRTSGYDARIRPNFKGPP
VNVTCNIFINSFGSVTETTMDYRVNIFLRQQWNDSRLAYSEYPDDSLDLDPSMLDSIWKPDLFFANEKGA
NFHDVTTDNKLLRISKNGKVLYSIRLTLTLSCPMDLKNFPMDVQTCTMQLESFGYTMNDLIFEWLSDGPV
QVAEGLTLPQFILKEEKELGYCTKHYNTGKFTCIEVKFHLERQMGYYLIQMYIPSLLIVILSWVSFWINM
DAAPARVALGITTVLTMTTQSSGSRASLPKVSYVKAIDIWMAVCLLFVFAALLEYAAVNFVSRQHKEFLR
LRRRQKRQNKEEDVTRESRFNFSGYGMGHCLQVKDGTAVKATPANPLPQPPKDGDAIKKKFVDRAKRIDT
ISRAAFPLAFLIFNIFYWITYKIIRHEDVHKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6134_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002063

ORF Size: 1356 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_002063.4

RefSeq Size: 3458 bp

RefSeq ORF: 1359 bp

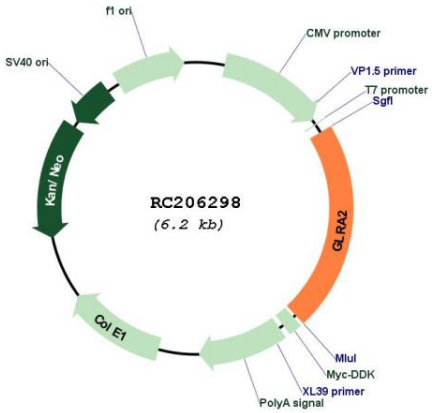
Locus ID: 2742

UniProt ID: P23416

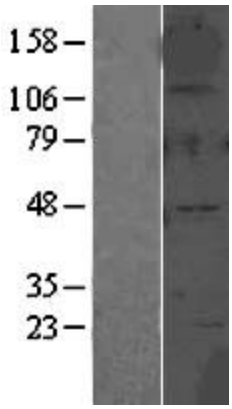
Cytogenetics: Xp22.2

Domains:	Neur_chan_memb, Neur_chan_LBD
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	52 kDa
Gene Summary:	The glycine receptor consists of two subunits, alpha and beta, and acts as a pentamer. The protein encoded by this gene is an alpha subunit and can bind strychnine. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2010]

Product images:



Circular map for RC206298



Western blot validation of overexpression lysate (Cat# [LY426528]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225747] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).