

Product datasheet for **RG210390**

alpha 1 Glycine Receptor (GLRA1) (NM_000171) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Glycine Receptor (GLRA1) (NM_000171) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	alpha 1 Glycine Receptor
Synonyms:	HKPX1; STHE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG210390 representing NM_000171
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTACAGCTTCAACTCTTCGACTCTACCTTTGGGAGACCATTGTATTCTTCAGCCTTGCTGCTTCTA
 AGGAGGCTGAAGCTGCTCGCTCCGCACCCAAGCCTATGTCACCCTCGATTTCCTGGATAAGCTAATGGG
 GAGAACCTCCGGATATGATGCCAGGATCAGGCCAATTTAAAGGTCCCCAGTGAACGTGAGCTGCAAC
 ATTTTCATCAACAGCTTTGGTTCCATTGCTGAGACAACCATGGACTATAGGGTCAACATCTTCTGCGGC
 AGCAATGGAACGACCCCCGCTGGCCTATAATGAATACCCTGACGACTCTCTGGACCTGGACCCATCCAT
 GCTGGACTCCATCGAAACCTGACCTGTTCTTTGCCAACGAGAAGGGGGCCCACTTCCATGAGATCACC
 ACAGACAACAAATTGCTAAGGATCTCCCGAATGGGAATGTCCTCTACAGCATCAGAATCACCTGACAC
 TGGCCTGCCCCATGGACTGAAGAATTTCCCATGGATGTCCAGACATGTATCATGCAACTGAAAGCTT
 TGGATATACGATGAATGACCTCATCTTTGAGTGGCAGGAACAGGGAGCCGTGCAGGTAGCAGATGGACTA
 ACTCTGCCCCAGTTTATCTTGAAGGAAGAGAAGGACTTGAGATACTGCACCAAGCACTACAACACAGGTA
 AATTCACCTGCATTGAGGCCCGTTCCACCTGGAGCGGCAGATGGGTTACTACCTGATTAGATGTATAT
 TCCCAGCTGCTCATTGTATCCTCTCATGGATCTCCTTCTGGATCAACATGGATGCTGCACCTGCTCGT
 GTGGGCCATAGGCATCACCCTGTGCTCACCATGACCACCCAGAGCTCCGGCTCTCGAGCATCTGCCCCA
 AGGTGTCTATGTGAAAGCCATTGACATTTGGATGGCAGTTTGCCTGCTCTTTGTGTTCTCAGCCCTATT
 AGAATATGCTGCCGTTAACTTTGTGTCTCGGAACATAAGGAGCTGCTCCGATTCAGGAGGAAGCGGAGA
 CATCACAAGGAGGATGAAGCTGGAGAAGGCCGCTTAACTTCTCTGCCTATGGGATGGGCCACGCTGTC
 TACAGGCCAAGGATGGCATCTCAGTCAAGGGCGCCAACAACAGTAAACACCAACCCCAACCCCTCTGCACC
 ATCTAAGTCCCCAGAGGAGATGCCAAAACCTTTCATCCAGAGGGCCAAGAAGATCGACAAAAATATCCCGC
 ATTGGCTTCCCCATGGCCTTCTCATTTTCAACATGTTCTACTGGATCATCTACAAGATTGTCCGTAGAG
 AGGACGTCCACAACCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210390 representing NM_000171
 Red=Cloning site Green=Tags(s)

MYSFNTLRLYLWETIVFFSLAASKEAEAARSAPKPMSPSDFLDKLMGRTSGYDARIRPNFKGPPVNVSCN
 IFINSGSIAETTMDYRVNIFLRQQWNPRLAYNEYPDSDLDLPSMLDSIWKPDLFFANEKGAHFHEIT
 TDNKLRLISRNGNVLYSIRITLTLACPMDLKNFPMQVQTCIMQLESFGYTMNDLIFEWQEQGAVQVADGL
 TLPQFILKEEKDLRYCTKHYNTGKFTCIARFHLERQMGYYLIQMYIPSLILVILSWISFWINMDAAPAR
 VGLGITTVLMTTQSSGSRASLPKVSIVKAIIDIMAVCLLFVFSALLEYAAVNFVSRQHKELLRFRKRKR
 HHKEDEAGEGRFNF SAYGMGPAQLQAKDGISVKANNSTNTNPPAPSKSPEEMRKLFIQRAKKIDKISR
 IGFPMAFLIFNMFYWIYKIVRREDVHNQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000171

ORF Size: 1347 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_000171.4](#)

RefSeq Size: 1715 bp

RefSeq ORF: 1350 bp

Locus ID: 2741

UniProt ID: [P23415](#)

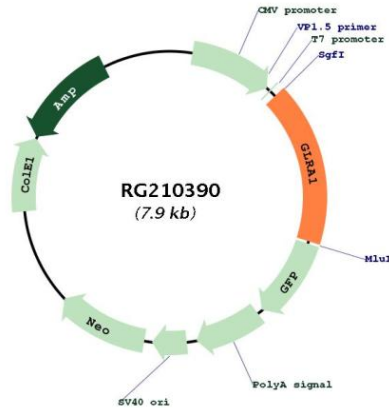
Cytogenetics: 5q33.1

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The protein encoded by this gene is a subunit of a pentameric inhibitory glycine receptor, which mediates postsynaptic inhibition in the central nervous system. Defects in this gene are a cause of startle disease (STHE), also known as hereditary hyperekplexia or congenital stiff-person syndrome. Multiple transcript variants encoding different isoforms have been found. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG210390