

Product datasheet for **RG237745**

alpha 1 Glycine Receptor (GLRA1) (NM_001292000) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Glycine Receptor (GLRA1) (NM_001292000) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLRA1
Synonyms:	HKPX1; STHE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237745 representing NM_001292000. Blue=ORF Red=Cloning site Green=Tag(s)

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GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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ATTTTCAACATGTTCTACTGGATCATCTACAAGATTGTCCGTAGAGAGGACGTCCACAACCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237745
 Blue=ORF Red=Cloning site Green=Tag(s)

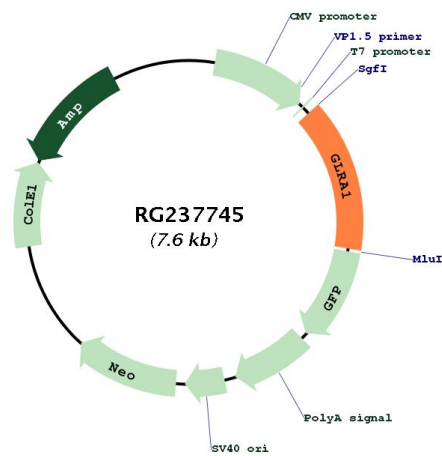
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 MTTQSSGSRASLPKVSYYKAIDIWMAVCLLFFVFSALLEYAAVNFVSRQHKELLFRFRKRRHHKDEAGE
 GRFNFSAYGMGPAQLQAKDGISVKGANNSTNPPPPAPSKSPEEMRKLFIQRAKKIDKISRIGFPM AFL
 IFNMFYWIYKIVRREDVHNQ
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 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001292000
ORF Size:	1098 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).
RefSeq:	NM_001292000.2
RefSeq Size:	1683 bp
RefSeq ORF:	1101 bp
Locus ID:	2741
Cytogenetics:	5q33.1
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	42.9 kDa
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]