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Product datasheet for RG228238

GLRB (NM_001166061) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLRB (NM_001166061) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLRB
Synonyms:	HKPX2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG228238 representing NM_001166061
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTTTTTATTGACAACTGCCTTTTTAATTTTAATTTCCTTGTGGGTGGAAGAAGCCTATTCTAAGG
AAAAGTCTTCAAAGAAAGGGAAGGGGAAAAAGAAGCAGTATCTATGCCCATCTCAGCAGTCAGCAGAGGA
CCTTGCCCGAGTACCTGCCAACTCCACTAGCAATATCTTGAACAGGTTATTGGTCAGTTATGATCCCAGG
ATAAGACCAAACTTCAAAGGCATTCCTGTTGATGTAGTAGTCAACATTTTTATTAACAGTTTTGGATCCA
TTCAAGAAACAACAATGGACTATAGAGTTAACATCTTCCTGAGACAAAAATGGAATGACCCCAGGCTGAA
GCTCCCCAGTGATTTTAGGGGTTCAGATGCACTGACAGTGGATCCAACAATGTACAAGTGTTTATGGAAA
CCTGATTTATTTTTTGCAAATGAAAAAAGTGCCAATTTTCATGATGTGACCCAGGAAAACATCCTCCTCT
TTATTTTTCGTGATGGAGATGTCCTTGTCAGCATGAGGTTATCTATTACTCTTTCATGCCCTTTGGACTT
GACATTGTTTCCCATGGATACACAACGTTGCAAGATGCAACTGGAGAGCTTTGGTTACACAACTGATGAT
TTACGATTTATCTGGCAGTCAGGAGATCCTGTGCAATTAGAAAAAATTGCCTTGCCTCAATTTGATATCA
AAAAGGAAGATATTGAATATGGTAACTGTACAAAATACTATAAAGGCACGGGCTACTACACATGCGTGGA
AGTCATCTTCACCCTGAGGAGGCAGGTCGGCTTTTACATGATGGGGGTCTACGCCCCAACCCTGCTCATT
GTTGTTCTCTCCTGGCTTTCCTTCTGGATCAACCCGGACGCGAGTGCTGCCAGAGTGCCCCTGGGTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

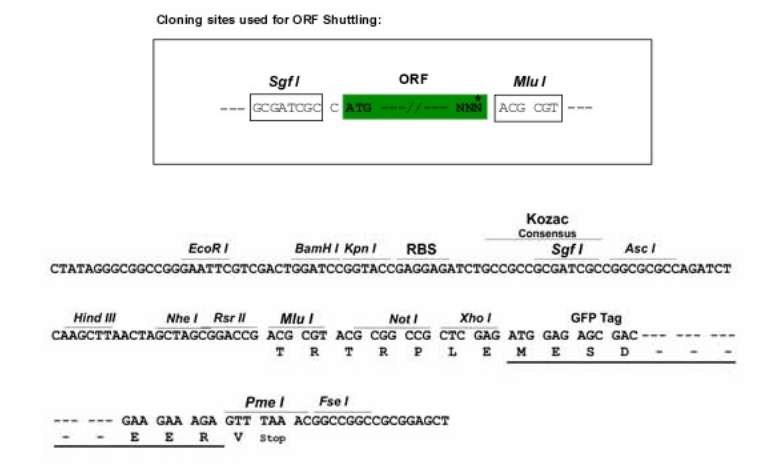
>RG228238 representing NM_001166061
Red=Cloning site Green=Tags(s)

MKFLLTTAFLILISLWVEEAYSKEKSSKKGKGKKKQYLCPSQQSAEDLARVPANSTSNILNRLLVSYDPR
IRPNFKGIPVDVVVNIFINSFGSIQETTMDYRVNIFLRQKWNDPRLKLPSDFRGSDALTVDPTMYKCLWK
PDLFFANEKSANFHDVTQENILLFIFRDGDVLVSMRLSITLSCPLDLTLFPMDTQRCKMQLESFGYTTDD
LRFIWQSGDPVQLEKIALPQFDIKKEDIEYGNCTKYYKGTGYYTCVEVIFTLRRQVGFYMMGVYAPTLLI
VVLSWLSFWINPDASAARVPLGW

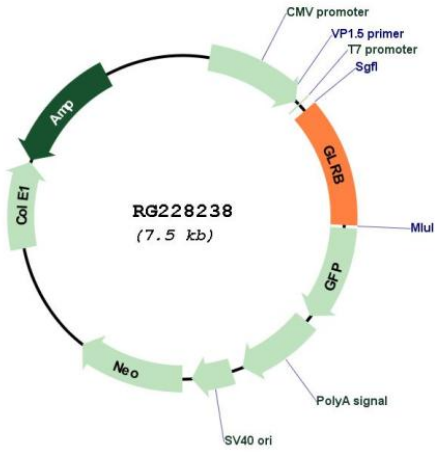
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001166061

ORF Size: 909 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_001166061.1, NP_001159533.1
RefSeq Size:	2783 bp
RefSeq ORF:	912 bp
Locus ID:	2743
UniProt ID:	P48167
Cytogenetics:	4q32.1
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes the beta subunit of the glycine receptor, which is a pentamer composed of alpha and beta subunits. The receptor functions as a neurotransmitter-gated ion channel, which produces hyperpolarization via increased chloride conductance due to the binding of glycine to the receptor. Mutations in this gene cause startle disease, also known as hereditary hyperekplexia or congenital stiff-person syndrome, a disease characterized by muscular rigidity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]