

## Product datasheet for RC229206

### GLRA4 (NM\_001024452) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLRA4 (NM_001024452) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLRA4
Synonyms:	glycine receptor, alpha 4; glycine receptor, alpha 4 subunit; OTTHUMP00000023760
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229206 representing NM_001024452 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAACCTTTGTTCTGCAACCCTCTCCTTCTTCTCTGGACCCTGCCAGGGCAGGTCTCTCTCA  
GGGTGGCCTTGGCAAAGAGGAAGTCAAATCTGGAACCAAGGGTCCCAGCCCATGTCCCCTCTGATTT  
CCTAGACAAACTTATGGGGCAACATCTGGATATGATGCCAGGATTCGGCCCAATTTTAAAGGCCACCC  
GTGAACGTGACCTGCAACATCTTCATCAACAGTTTCAGCTCCATACCAAGACCACAATGGACTACCGGG  
TGATGTCTTCTTGCGGCAACAGTGGAATGACCCACGCCTGTCTACCGAGAATATCCTGATGACTCTCT  
GGACCTCGATCCCTCCATGCTGGACTCTATCTGGAAGCCAGACCTCTTCTTTGCTAATGAGAAAGGGGCC  
AACTTCCATGAGGTGACCACGGACAACAAGTTACTGCGCATCTTCAAGAATGGGAATGTGCTGTACAGCA  
TCAGGCTGACCCTCATTTTGTCTGCTGATGGACCTCAAGAACTTCCCATGGACATCCAGACCTGCAC  
GATGCAGCTTGAGAGCTTTGGCTACACCATGAAAGACCTCGTGTGAGTGGCTGGAAGATGCTCCTGCT  
GTCCAAGTGGCTGAGGGGCTGACTCTGCCCCAGTTTATCTTGGGGATGAGAAGGATCTAGGCTGTTGTA  
CCAAGCACTACAACACAGGAAATTCACCTGCATCGAGGTAAGTTTACCTGGAACGGCAGATGGGCTA  
CTATCTGATTGATGTACATCCCCAGCCTACTCATCGTCATCCTGTCTGGTCTCCTTCTGGATCAAC  
ATGGATGCTGCCCTGCCCGTGTGGCCTGGGCATCACCACCGTCTCACCATGACCCAGAGCTCTG  
GCTCCCGGCCTCTTTGCCAAGGTGTCCTACGTGAAGGCAATCGACATCTGGATGGCTGTGTCTGCT  
CTTTGTGTTGCTGCTTGTGAGTATGCTGCCATAAATTTTGTCTCGTCAGCATAAAGAATTCATA  
CGACTTGAAGAAGGCAGAGGCGCAACGCTTGGAGGAAGATATCATCCAAGAAAGTCGTTTCTATTTCC  
GTGGCTATGGCTTGGGCCACTGCCTGCAGGCAAGAGATGGAGGTCGAATGGAAGTTCTGGCATTATAG  
TCCCCAACCTCCAGCCCCTTTCTAAGGGAAGGAGAAACCACGCGAACTCTACGTGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC229206 representing NM\_001024452  
Red=Cloning site Green=Tags(s)

MTTLVPATLSFLLLWTLPGQVLLRVALAKEEVKSGTKGSQPMSPSDFLDKLMGRITSGYDARIRPNFKGPP  
 VNVTCNIFINSFSSITKTTMDYRVNVFLRQWNPRLSYREYPDDSLDLDPMSLDSIWKPDLFFANEKGA  
 NFEVTTDNKLLRIFKNGNVLYSIRLTLILSCLMDLKNFPMDIQTCTMQLESFGYTMKDLVFEWLEDAPA  
 VQVAEGLTLPQFILRDEKDLGCCTKHNTGKFTCIQEVKFLERQMGYYLIQMYIPSLILVILSWVSFWIN  
 MDAAPARVGLGITTVLTMTTQSSGSRASLPKVS YVKAIDIWMAVCLL FVF AALLEYAAINFVSRQHKEFI  
 RLRRRQRQRLEEDI IQESRFYFRGYGLGHCLQARDGGPMEGSGIYSPQPPAPLLREGETTRKLYVD

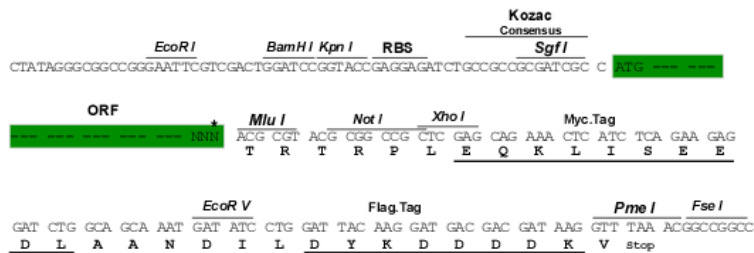
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8004\\_g04.zip](https://cdn.origene.com/chromatograms/mk8004_g04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001024452

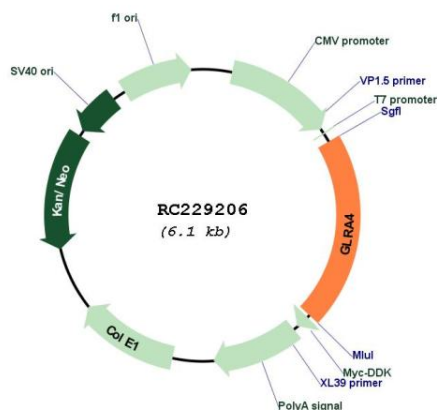
**ORF Size:** 1251 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001024452.2</a></u> , <u><a href="#">NP_001019623.2</a></u>
<b>RefSeq ORF:</b>	1254 bp
<b>Locus ID:</b>	441509
<b>Cytogenetics:</b>	Xq22.2
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	47.5 kDa
<b>Gene Summary:</b>	This gene encodes a glycine receptor and member of the ligand-gated ion channel family of proteins. The encoded protein is missing the fourth transmembrane region compared to related proteins in mouse and rat, and experimental data suggests that the human protein is functionally inactive. However, there is strong evidence to support transcription of this gene. As a result, RefSeq, in collaboration with Ensembl-Gencode, has determined that this locus is best described as a transcribed pseudogene. [provided by RefSeq, Aug 2019]

### Product images:



Circular map for RC229206