

## Product datasheet for **RG229206**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLRA4 (NM_001024452) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLRA4
Synonyms:	glycine receptor, alpha 4; glycine receptor, alpha 4 subunit; OTTHUMP00000023760
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229206 representing NM_001024452 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAACCTTTGTTCTGCAACCCTCTCCTTCTTCTCTGGACCCTGCCAGGGCAGGTCTCTCTCA  
GGGTGGCCTTGGCAAAGAGGAAGTCAAATCTGGAACCAAGGGTCCCAGCCCATGTCCCCTCTGATTT  
CCTAGACAACTTATGGGGCAACATCTGGATATGATGCCAGGATTCGGCCCAATTTTAAAGGCCACCC  
GTGAACGTGACCTGCAACATCTCATCAACAGTTTCAGCTCCATACCAAGACCACAATGGACTACCGGG  
TGATGTCTTCTTGCGGCAACAGTGGAATGACCCACGCCTGTCTACCGAGAATATCCTGATGACTCTCT  
GGACCTCGATCCCTCCATGCTGGACTCTATCTGGAAGCCAGACCTCTTCTTTGCTAATGAGAAAGGGGCC  
AACTTCCATGAGGTGACCACGGACAACAAGTTACTGCGCATCTTCAAGAATGGGAATGTGCTGTACAGCA  
TCAGGCTGACCCTCATTTTGCCTGCTGATGGACCTCAAGAACTTCCCATGGACATCCAGACCTGCAC  
GATGCAGCTTGAGAGCTTTGGCTACACCATGAAAGACCTCGTGTGAGTGGCTGGAAGATGCTCCTGCT  
GTCCAAGTGGCTGAGGGGCTGACTCTGCCCCAGTTTATCTTGCGGGATGAGAAGGATCTAGGCTGTTGTA  
CCAAGCACTACAACACAGGAAATTCACCTGCATCGAGGTAAGTTTACCTGGAACGGCAGATGGGCTA  
CTATCTGATTGATGTACATCCCCAGCCTACTCATCGTCATCCTGTCTGGTCTCCTTCTGGATCAAC  
ATGGATGCTGCCCTGCCGTGTGGCCTGGGCATCACCCAGTGTCTCACCATGACCACCCAGAGCTCTG  
GCTCCCGGCCTCTTTGCCTAAGGTGTCCTACGTGAAGGCAATCGACATCTGGATGGCTGTGTCTGCT  
CTTTGTGTTGCTGCTTGTGAGTATGCTGCCATAAATTTTGTCTCGTCAGCATAAAGAATTCATA  
CGACTTCAAGAAGGCAGAGGCGCAACGCTTGGAGGAAGATATCATCCAAGAAAGTCGTTTCTATTTCC  
GTGGCTATGGCTTGGCCACTGCCTGCAGGCAAGAGATGGAGGTCCAATGGAAGTTCTGGCATTATAG  
TCCCCAACCTCCAGCCCCTTTCTAAGGGAAGGAGAAACCACGCGGAACTCTACGTGGAC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229206 representing NM\_001024452  
 Red=Cloning site Green=Tags(s)

MTTLVPATLSFLLLWTLPGQVLLRVALAKEEVKSGTKGSQPMSPSDFLDKLMGRTSGYDARIRPNFKGPP  
 VNVTCNIFINSFSSITKTTMDYRVNVFLRQWNPRLSYREYPDDSLDLDPMSLDIWKPDLEFFANEKGA  
 NFHEVTTDNKLLRIFKNGNVLYSIRLTLILSCLMDLKNFPMDIQTCTMQLESFGYTMKDLVFEWLEDAPA  
 VQVAEGLTLPQFILRDEKDLGCCTKHYNTGKFTCIEVKFHLERQMGGYLIQMYIPSLLVILSWVSFWIN  
 MDAAPARVGLGITTVLMTTQSSGSRASLPKVSYVKAIDIWMAVCLLFVFAALLEYAAINFVSRQHKEFI  
 RLRRRQRQRLEEDI IQESRFYFRGYGLGHCLQARDGGPMEGSGIYSPQPPAPLLREGETTRKLYVD

TRTRPLE - GFP Tag - V

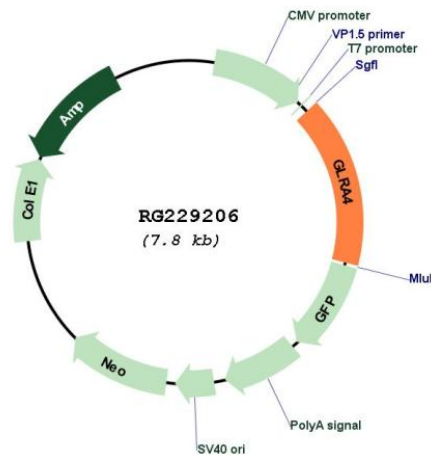
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001024452

<b>ORF Size:</b>	1251 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>	<a href="#">NM_001024452.2</a> , <a href="#">NP_001019623.2</a>
<b>RefSeq Size:</b>	1675 bp
<b>RefSeq ORF:</b>	1254 bp
<b>Locus ID:</b>	441509
<b>Cytogenetics:</b>	Xq22.2
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>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]</p>