

## Product datasheet for **MC226132**

### Rgr (NM\_001301694) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rgr (NM\_001301694) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rgr  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226132 representing NM\_001301694  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCTGTGTGCAGCGGTATCCAGCCTCCTCCGGCAGACAGTTGGCATGGGACACGGCCATCCCTCTGG  
TGCTGTTTGTGTGGATGCATCTGCCTTCTGGGCATCCCTGCCCTGATGGCTGGGGCCACTATGACTA  
TGAGCCTGTGGGACATGCTGTACACTGGACTATTCGAGGGGTGACAGAACTTCATCAGTTTTCTCTTC  
ACCATGGCTTTTTCAACTTCCTCGTACCCTGTTTCATCACACACTTCATACCGTTCATGGAGCAGA  
AATTCTCCAGGAGTGGCCATCTCCCGTGAATACTACTCTCCAGGCAGAATGCTGCTGCTGGCTGGGG  
CCCCTATGCCCTCTGTACCTATACGCAGCCATCGCAGATGTGAGCTTCATCTCTCTAAACTACAGATG  
GTGCTGCTCTCATCGCCAAAACCATGCCACAATCAACGCCATCAACTATGCGTTGCACAGGGAGATGG  
TCTGTAGAGGAACCTGGCAGTGTCTGTCTCCACAAAAAGCAAGAAGGACCGAACCCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001301694  
**Insert Size:** 552 bp  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  
**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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<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>NM_001301694.1, NP_001288623.1</u>
<b>RefSeq Size:</b>	4135 bp
<b>RefSeq ORF:</b>	552 bp
<b>Locus ID:</b>	57811
<b>Cytogenetics:</b>	14 B
<b>Gene Summary:</b>	<p>The gene is a member of the opsin family of G-protein coupled receptors. The encoded protein is expressed in the retina, and acts as a photoisomerase to catalyze the conversion of all-trans-retinal to 11-cis-retinal. Disruption of a similar gene in human is associated with autosomal recessive (arRP) and autosomal dominant retinitis pigmentosa (adRP). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site and lacks an alternate exon in the 5' coding region, and uses an alternate downstream start codon compared to variant 1. The resulting protein (isoform 2) has a distinct N-terminus and is shorter compared to isoform 1. Variants 2 and 3 encode the same isoform (2).</p>