

Product datasheet for **MR228343**

Rgr (NM_001301694) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgr (NM_001301694) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rgr
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228343 representing NM_001301694
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGTGTGCAGCGGTATCCAGCCTCCTCCGGCAGACAGTTGGCATGGGACACGGCCATCCCTCTGG
TGCTGTTTGTGTGGATGTCATCTGCCTTCTGGGCATCCCTGCCCTGATGGGCTGGGCCACTATGACTA
TGAGCCTGTGGGACATGCTGTACACTGGACTATTCGAGGGGTGACAGAACTTCATCAGTTTTCTCTTC
ACCATGGCTTTTTCAACTTCTCGTACCCTGTTTCATCACACACTTCATACCGTTCATGGAGCAGA
AATTCTCCAGGAGTGGCCATCTCCCGGTGAATACTACTCTCCAGGCAGAATGCTGCTGCTGGCTGGG
CCCCTATGCCCTCTGTACCTATACGCAGCCATCGCAGATGTGAGCTTCATCTCTCTAAACTACAGATG
GTGCCTGCTCTCATCGCCAAAACCATGCCACAATCAACGCCATCAACTATGCGTTGCACAGGGAGATGG
TCTGTAGAGGAACCTGGCAGTGTCTGTCTCCACAAAAAGCAAGAAGGACCGAACCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228343 representing NM_001301694
Red=Cloning site Green=Tags(s)

MPLLQRYPASSGRQLAWDTAIPVLVFWVMSSAFWASLPLMGWGHYDYPVGTCTLDYSRGRNFIISFLF
TMAFFNFLVPLFITHTSYRFMEQKFSRSGHLPVNTTLPGRMLLLGWGPYALLYLYAAIADVSFISPKLQM
VPALIAKTMPPTINAINYALHREMVCRTWQCLSPQKSKKDRTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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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:	<ol style="list-style-type: none">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:	<u>NM_001301694.1, NP_001288623.1</u>
RefSeq Size:	4135 bp
RefSeq ORF:	552 bp
Locus ID:	57811
Cytogenetics:	14 B
MW:	21.4 kDa
Gene Summary:	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]