

Product datasheet for MR228342

Rgr (NM_001301692) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Rgr (NM_001301692) 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 >MR228342 representing NM_001301692
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228342 representing NM_001301692

Red=Cloning site Green=Tags(s)

MPLLQRYPASSGRQLAWDTAIPLVLFVWMSSAFWASLPLMGWGHYDYEPVGTCCTLDYSRGDRNFISFLF TMAFFNFLVPLFITHTSYRFMEQKFSRSGHLPVNTTLPGRMLLLGWGPYALLYLYAAIADVSFISPKLQM

VPALIAKTMPTINAINYALHREMVCRGTWQCLSPQKSKKDRTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

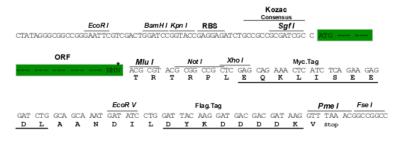
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



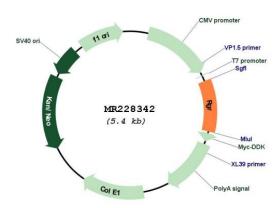
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001301692

ORF Size: 549 bp

OTI Disclaimer: 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: <u>NM 001301692.1</u>, <u>NP 001288621.1</u>

RefSeq Size:4185 bpRefSeq ORF:552 bpLocus ID:57811Cytogenetics: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]