

Product datasheet for MR223908

Rcvrn (NM_009038) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rcvrn (NM_009038) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rcvrn
Synonyms: CAR; S-modulin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR223908 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAACAGCAAGAGCGGTGCCCTGTCCAAGGAGATCCTAGAGGAGTTGCAACTGAACACCAAGTTCA
 CAGAGGAGGAGCTGAGTGCCTGGTACCAGTCTTCTCTGAAGGAGTGCCCTAGCGGCCGCATCACGGCA
 GGATTCGAAAGTATCTATTCCAAGTTTTCCCGACTCCGACCCCAAGGCCTACGCGCAGCACGTGTTCC
 CGCAGCTTCGATGCCAACAGCGATGGTACGCTGGACTTCAAGGAGTACGTGATTGCTCTGCACATGACCA
 CGGCGGGCAAGCCACGCAGAAGCTCGAGTGGCCTTCTCGCTCTACGACGTAGACGGCAATGGGACCAT
 CAGCAAAAATGAAGTGTGGAGATCGTCATGGCTATCTTCAAAAATGATCAAGCCTGAGGATGTGAAACTC
 TCCCAGATGATGAAAACACCCAGAAAAGCGGGCTGAGAAGATCTGGGCATTCTTTGAAAAGAAAAGAGG
 ATGATAAACTTACAGAGGAGGAATTCATCGAGGGGACCCTGGCCAATAAGGAAATCTGCGACTGATCCA
 GTTTGAACCTCAAAAAGTGAAGGAGAGGATAAAGGAAAAGAAAACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223908 protein sequence
 Red=Cloning site Green=Tags(s)

MGNSKSGALSKEILEELQLNKFTEEELSAWYQSFLKECPSGRITRQEFESIYSKFFPDSDPKAYAQHVF
 RSFDANSDGLDFKEYVIALHMTTAGKPTQKLEWAFSLYDVDGNGTISKNEVLEIVMAIFKMIKPEDVKL
 LPDDEPTEKRAEKIWAFFGKKEDDKL TEEEFIEGTLANKEILRLIQFEPQVKKERIKEKKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_009038

ORF Size: 609 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: [NM_009038.2](#), [NP_033064.1](#)

RefSeq Size: 1076 bp

RefSeq ORF: 609 bp

Locus ID: 19674

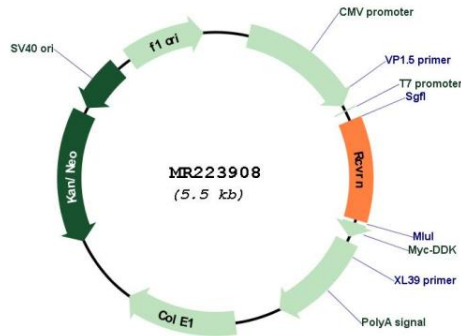
UniProt ID: [P34057](#)

Cytogenetics: 11 41.13 cM

MW: 23.4 kDa

Gene Summary: Seems to be implicated in the pathway from retinal rod guanylate cyclase to rhodopsin. May be involved in the inhibition of the phosphorylation of rhodopsin in a calcium-dependent manner. The calcium-bound recoverin prolongs the photoresponse.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223908