

Product datasheet for **RG200428**

Recoverin (RCVRN) (NM_002903) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Recoverin (RCVRN) (NM_002903) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Recoverin
Synonyms: RCV1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200428 representing NM_002903
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAACAGCAAAAGTGGGGCCTGTCCAAGGAGATCCTGGAGGAGCTGCAGCTGAACACCAAGTTCT
 CGGAGGAGGAGCTGTGCTCCTGGTACCAGTCTTCTGAAGGACTGTCCACCGGCCGCATACCCAGCA
 GCAGTTCCAGAGCATCTACGCCAAGTTCTCCCGACACCGACCCCAAGGCCTACGCCAGCATGTGTT
 CGCAGCTTCGATCCAACCTCGACGGCACCTGGACTTCAAGGAGTACGTCATCGCCCTGCACATGACCA
 CCGCGGGCAAGACCAACCAGAAGCTGGAGTGGCCTTCTCCCTCTACGACGTGGACGGTAACGGGACCAT
 CAGCAAGAATGAAGTGTGGAGATCGTCATGGCTATTTTCAAAATGATCACTCCCGAGGAGTGAAGCTC
 TTCCAGACGATGAAAACACGCCGAAAAGCGAGCCGAGAAGATCTGGAAGTACTTTGAAAAGAATGATG
 ATGATAAACTTACAGAGAAAAGATTCAATTGAGGGGACACTGGCCAATAAGGAAATTCTGCGACTGATCCA
 GTTTGAGCCTCAAAAAGTGAAGGAAAAGATGAAGAACGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200428 representing NM_002903
 Red=Cloning site Green=Tags(s)

MGNSKSGALSKEILEELQLNKFSEELCSWYQSFLKDCPTGRITQQFQSIYAKFFPDTDPKAYAQHVF
 RSFDSNLDGTLDFKEYVIALHMTTAGKTNQKLEWAFSLYDVGNGTISKNEVLEIVMAIFKMITPEDVKL
 LPDDENTPEKRAEKIWKYFGKNDKDLTEKEFIEGTLANKEILRLIQFEPQKVKEKMKNA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



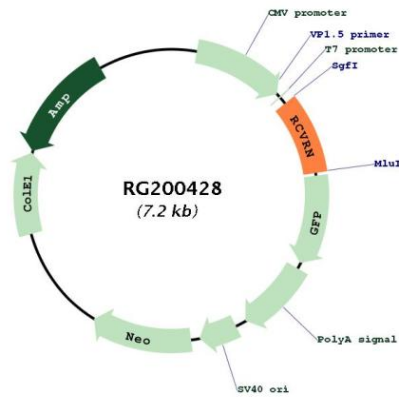
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Cloning Scheme:


ACCN:	NM_002903
ORF Size:	600 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:	<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:	NM_002903.3
RefSeq Size:	1217 bp
RefSeq ORF:	603 bp
Locus ID:	5957
UniProt ID:	P35243
Cytogenetics:	17p13.1

Gene Summary:

This gene encodes a member of the recoverin family of neuronal calcium sensors. The encoded protein contains three calcium-binding EF-hand domains and may prolong the termination of the phototransduction cascade in the retina by blocking the phosphorylation of photo-activated rhodopsin. Recoverin may be the antigen responsible for cancer-associated retinopathy. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG200428