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Product datasheet for RC200428

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:	Myc-DDK
Symbol:	Recoverin
Synonyms:	RCV1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200428 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGAACAGCAAAAGTGGGGCCCTGTCCAAGGAGATCCTGGAGGAGCTGCAGCTGAACACCAAGTTCT
CGGAGGAGGAGCTGTGCTCCTGGTACCAGTCCTTCCTGAAGGACTGTCCCACCGGCCGCATCACCCAGCA
GCAGTTCCAGAGCATCTACGCCAAGTTCTTCCCCGACACCGACCCCAAGGCCTACGCCCAGCATGTGTTC
CGCAGCTTCGATTCCAACCTCGACGGCACCCTGGACTTCAAGGAGTACGTCATCGCCCTGCACATGACCA
CCGCGGGCAAGACCAACCAGAAGCTGGAGTGGGCCTTCTCCCTCTACGACGTGGACGGTAACGGGACCAT
CAGCAAGAATGAAGTGCTGGAGATCGTCATGGCTATTTTCAAAATGATCACTCCCGAGGACGTGAAGCTC
CTTCCAGACGATGAAAACACGCCGGAAAAGCGAGCCGAGAAGATCTGGAAGTACTTTGGAAAGAATGATG
ATGATAAACTTACAGAGAAAGAATTCATTGAGGGGACACTGGCCAATAAGGAAATTCTGCGACTGATCCA
GTTTGAGCCTCAAAAAGTGAAGGAAAAGATGAAGAACGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200428 protein sequence
Red=Cloning site Green=Tags(s)

MGNSKSGALSKEILEELQLNTKFSEEELCSWYQSFLKDCPTGRITQQQFQSIYAKFFPDTDPKAYAQHVF
RSFDSNLDGTLDFKEYVIALHMTTAGKTNQKLEWAFSLYDVDGNGTISKNEVLEIVMAIFKMITPEDVKL
LPDDENTPEKRAEKIWKYFGKNDDDKLTEKEFIEGTLANKEILRLIQFEPQKVKEKMKNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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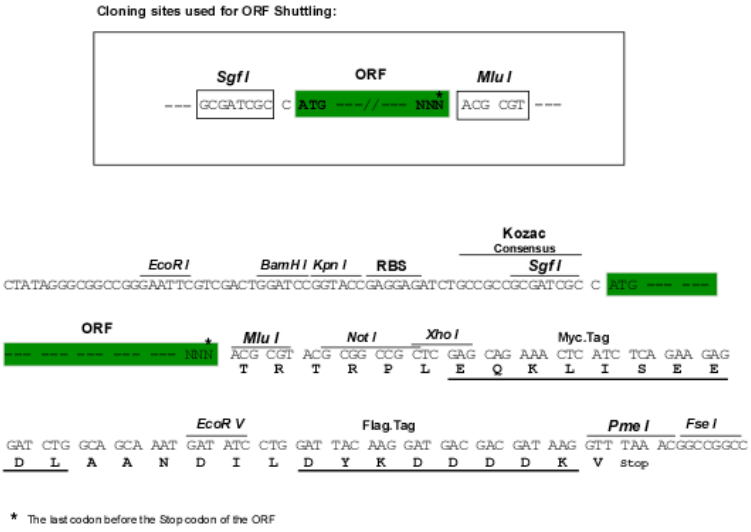
Chromatograms: https://cdn.origene.com/chromatograms/mk6388_a08.zip

Restriction Sites: SgfI-MluI

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:
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

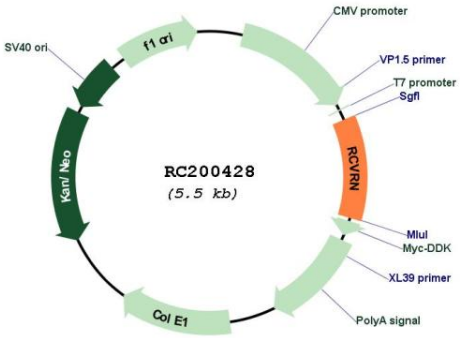
UniProt ID: P35243

Cytogenetics: 17p13.1

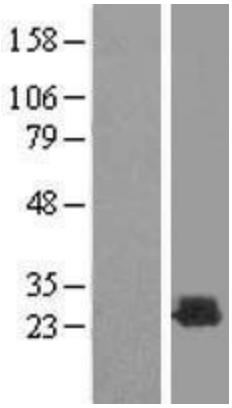
MW: 23.1 kDa

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]

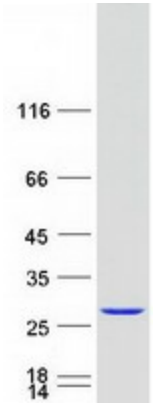
Product images:



Circular map for RC200428



Western blot validation of overexpression lysate (Cat# [LY419029]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200428 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RCVRN protein (Cat# [TP300428]). The protein was produced from HEK293T cells transfected with RCVRN cDNA clone (Cat# RC200428) using MegaTran 2.0 (Cat# [TT210002]).