

Product datasheet for **RG209916**

RETREG1 (NM_019000) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RETREG1 (NM_019000) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RETREG1
Synonyms:	FAM134B; JK-1; JK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209916 representing NM_019000 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGAAGGTGAAGACTTTGGACCAGGCAAAAGCTGGGAAGTTATCAATTCCAAACCAGATGAAAGAC
CCAGGCTCAGCCACTGTATTGCAGAATCATGGATGAATTCAGCATATTTCTTCAAGAAATGTCTTTTT
TAAACAGCAGAGCCCTGGCAAGTTTTGTCTCTGGTCTGTAGTGTGTGCACATTTTTTACGATCTGGGA
AGTTACATTCCTGGGTTATACTCAGCTATCTACTGTTACTGTGTGCATTTTTGTGTCCATTGTTAAAT
GTAATGATATTGGACAAAAATTTACAGCAAAATTAAGTCAGTTCTGCTGAAACTGGATTTTGAATTGG
AGAATATATTAATCAGAAGAAACGTGAGAGATCTGAAGCAGATAAAGAAAAAGTCACAAAGATGACAGT
GAATTAGACTTTTCAGCTCTTTGTCCTAAGATTAGCCTCACGGTTGCTGCCAAAGAGTTATCTGTGTCTG
ACACAGACGTCTCAGAGGTATCCTGGACTGATAATGGGACCTTCAACCTTTCAGAAGGATACACTCCACA
GACAGACACTTCTGATGATCTTGACCGACCCAGTGAGGAAGTTTTCTCTAGAGATCTTTCAGATTTTCCA
TCTCTAGAAAATGGCATGGGAACAAATGATGAAGATGAATTAAGCCTTGGTTTGGCCACTGAGCTCAAGA
GAAAGAAGGAACAGTTGGACAGTGGTCACAGACCAAGCAAGAGACGCAATCAGCAGCTGGTCTCACCT
TCCTCTGAACAGTGACCAAACTTTACCTGATGAGCAACCTGGCTGGGGATGTTATCACAGCTGCAGTG
ACTGCAGCTATCAAAGACCAGTTAGAGGGTGTGCAGCAAGCACTTCTCAGGCTGCCCCATCCCAGAAG
AGGACACAGACTGAAGAAGGTGATGACTTTGAACTACTTGACCAGTCAGAGCTGGATCAAATTGAGAG
TGAATTGGGACTTACACAAGACCAGGAAGCAGAAGCACAGCAAAATAAGAAGTCTTCAGGTTTCCTTTCA
AATCTGCTGGGAGGCCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209916 representing NM_019000
 Red=Cloning site Green=Tags(s)

MPEGEDFGPGKSWEVINSKPDERPRLSHCIAESWMNFSIFLQEMSLFKQQSPGKFCLLVCSVCTFFFTILG
 SYIPGVILSYLLLLCAFLCPLFKCNDIGQKIYSKIKSVLLKLDGIGEYINQKKRERSEADKEKSHKDDS
 ELDFSALCPKISLTVAAKELSVSDTDVSEVSWTDNGTFNLSEGYTPQTDTSDDLDRPSEEVFSRDLSDFP
 SLENGMGTNDEDELSLGLPTELKRKKEQLDSGHRPSKETQSAAGLTLPLNSDQTFHLMNSLAGDVITAAV
 TAAIKDQLEGVQQALSQAAPIPEEDTDTTEEGDDFELLDQSELDQIESELGLTQDQEAQAQNKSSGFLS
 NLLGGH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019000

ORF Size: 1068 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_019000.3](#), [NP_061873.2](#)

RefSeq Size: 3108 bp

RefSeq ORF: 1071 bp

Locus ID: 54463

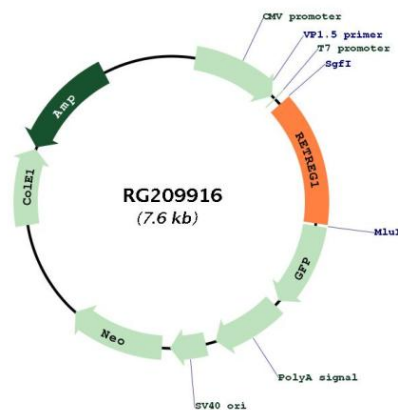
UniProt ID: [Q9H6L5](#)

Cytogenetics: 5p15.1

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a cis-Golgi transmembrane protein that may be necessary for the long-term survival of nociceptive and autonomic ganglion neurons. Mutations in this gene are a cause of hereditary sensory and autonomic neuropathy type IIB (HSAN IIB), and this gene may also play a role in susceptibility to vascular dementia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG209916