

Product datasheet for **RC209916**

RETREG1 (NM_019000) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	RETREG1
Synonyms:	FAM134B; JK-1; JK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209916 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGAAGGTGAAGACTTTGGACCAGGCAAAAGCTGGGAAGTTATCAATTCCAAACCAGATGAAAGAC
CCAGGCTCAGCCACTGTATTGCAGAATCATGGATGAATTCAGCATATTTCTTCAAGAAATGCTCTTTT
TAAACAGCAGAGCCCTGGCAAGTTTGTCTCCTGGTCTGTAGTGTGTGCACATTTTTACGATCTGGGA
AGTTACATTCTGGGGTTATACTCAGCTATCTACTGTTACTGTGTGCATTTTTGTGTCCATTGTTAAAT
GTAATGATATTGGACAAAAATTTACAGCAAAATTAAGTCAGTTCTGCTGAAACTGGATTTTGAATTGG
AGAATATATTAATCAGAAGAAACGTGAGAGATCTGAAGCAGATAAAGAAAAAGTCACAAAGATGACAGT
GAATTAGACTTTTCAGCTCTTTGTCTTAAGATTAGCCTCACGGTTGCTGCCAAAGAGTTATCTGTGTCTG
ACACAGACGTCTCAGAGGTATCCTGGACTGATAATGGGACCTTCAACCTTTCAGAAGGATACACTCCACA
GACAGACACTTCTGATGATCTTGACCGACCCAGTGAGGAAGTTTTCTCTAGAGATCTTTCAGATTTTCCA
TCTCTAGAAAATGGCATGGGAACAAATGATGAAGATGAATTAAGCCTTGGTTTGGCCACTGAGCTCAAGA
GAAAGAAGGAACAGTTGGACAGTGGTCACAGACCAAGCAAAGAGACGCAATCAGCAGCTGGTCTCACCT
TCCTCTGAACAGTGACCAAACTTTACCTGATGAGCAACCTGGCTGGGGATGTTATCACAGCTGCAGTG
ACTGCAGCTATCAAAGACCAGTTAGAGGGTGTGCAGCAAGCACTTCTCAGGCTGCCCATCCCAGAAG
AGGACACAGACACTGAAGAAGGTGATGACTTTGAACTACTTGACCAGTCAGAGCTGGATCAAATTGAGAG
TGAATTGGGACTTACACAAGACCAGGAAGCAGAAGCACAGCAAAATAAGAAGTCTTCAGGTTTCTTTCA
AATCTGCTGGGAGGCCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC209916 protein sequence
 Red=Cloning site Green=Tags(s)

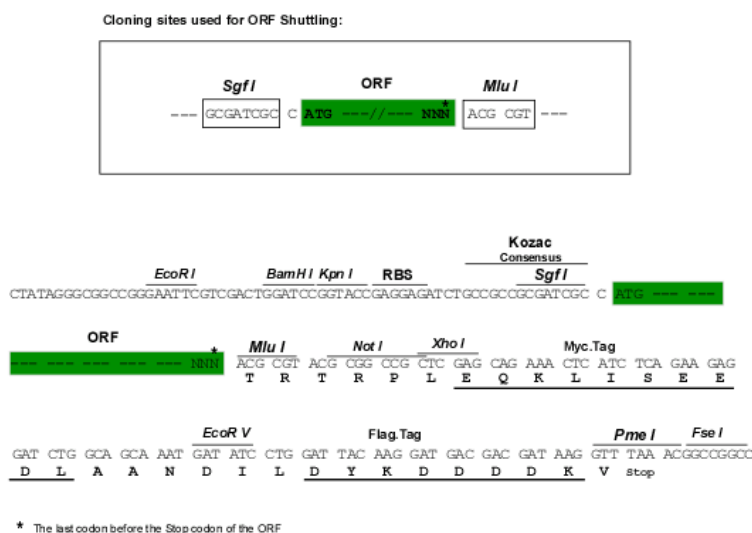
MPEGEDFGPGKSWEVINSKPDERPRLSHCIAESWMNFSIFLQEMSLFKQQSPGKFCLLVCSVCTFTTILG
 SYIPGVILSYLLLLCAFLCPLFKCNDIGQKIYSKIKSVLLKLDGIGEYINQKKRERSEADKEKSHKDDS
 ELDFSALCPKISLTVAAKELSVSDTDVSEVSWTDNGTFNLSEGYPQTDTSDDLDRPSEEVFSRDLSDFP
 SLENGMGTNDEDELSLGLPTELKRKKEQLDSGHRPSKETQSAAGLTPLNSDQTFHLMNSNLAGDVITA
 AVTAAIKDQLEGVQQALSQAAPIEEDTDTEEGDDFELLDQSELDQIESELGLTQDQEAQAQNKSSGFLS
 NLLGGH

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6363_a10.zip

Restriction Sites: Sgfl-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_019000.4](#)

RefSeq Size: 3184 bp

RefSeq ORF: 1071 bp

Locus ID: 54463

UniProt ID: [Q9H6L5](#)

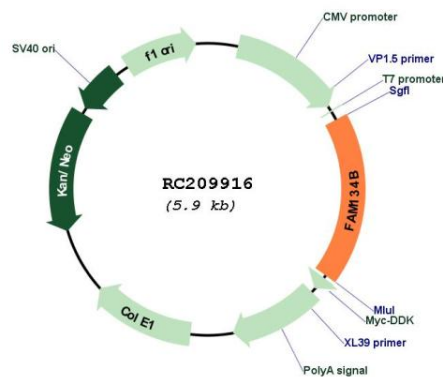
Cytogenetics: 5p15.1

Protein Families: Transmembrane

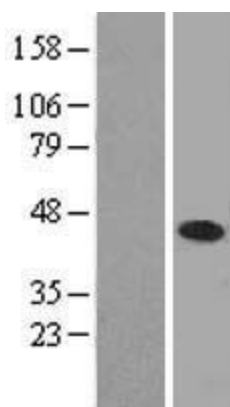
MW: 39.3 kDa

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]

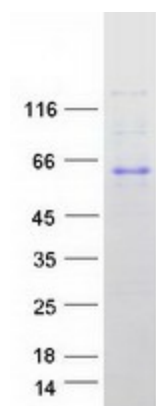
Product images:



Circular map for RC209916



Western blot validation of overexpression lysate (Cat# [LY412838]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209916 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RETREG1 protein (Cat# [TP309916]). The protein was produced from HEK293T cells transfected with RETREG1 cDNA clone (Cat# RC209916) using MegaTran 2.0 (Cat# [TT210002]).