

Product datasheet for **RC208619**

RETREG1 (NM_001034850) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RETREG1 (NM_001034850) Human Tagged ORF Clone
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)



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ORF Nucleotide Sequence:

>RC208619 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGAGCCCGCGCCTCCGGAGCACGCCGAGGAGGGATGCCCGGCTCCTGCCCGCAGGAGCAGCGCC
 CGCCGTCGCCACCAGCCAGGCATCCCCGAGAGCGGCAGCAGCAGGAGGAGGAAGCGCAGGAAGC
 TGGGGCGCGGAGGGCGCGGGTTGCAGGTGGAGGAGGCCGCGGGCCGGCGCGCCGGTAACCTGG
 CTGCTCGGGAGCCGGTCTGTGGCTGGCTGCCGCGCCGACGAGCTGCTGAGCTGGAAGAGGCCGCTGC
 GGAGCCTGCTCGGCTTCGTCGCTGCCAACCTGCTGTTCTGGTTCCTTGCAATTGACTCCATGGAGAGTATA
 TCACCTGATTTCCGTCATGATACTTGGGCGTGTATTATGCAAATAATAAAGGATATGGTTTTGTCTAGA
 ACAAGAGGTGCACAGTTGTGGAGAAGCCTCAGTAAAGCTGGGAAGTTATCAATCCAAACCAGATGAAA
 GACCCAGGCTCAGCCACTGTATTGCAGAATCATGGATGAATTTCCAGCATATTTCTCAAGAAATGTCTCT
 TTTTAAACAGCAGAGCCCTGGCAAGTTTGTCTCTGGTCTGTAGTGTGTGCACATTTTTACGATCTTG
 GGAAGTTACATTCCTGGGTTTAACTCAGCTATCTACTGTACTGTGTGCATTTTTGTGTCCATTGTTTA
 AATGTAATGATATTGGACAAAAATTTACAGCAAATTAAGTCAGTTCTGCTGAAACTGGATTTTGAAT
 TGGAGAATATATTAATCAGAAGAAACGTGAGAGATCTGAAGCAGATAAAGAAAAAGTCACAAAGATGAC
 AGTGAATTAGACTTTTCAGCTCTTTGTCCTAAGATTAGCCTCACGGTTGCTGCCAAAGAGTTATCTGTGT
 CTGACACAGACGTCTCAGAGGTATCCTGGACTGATAATGGGACCTTCAACCTTTCAGAAGGATACACTCC
 ACAGACAGACACTTCTGATGATCTTGACCGACCCAGTGAAGGAGTTTCTCTAGAGATCTTTCAGATTTT
 CCATCTCTAGAAAATGGCATGGGAACAAATGATGAAGTGAATTAAGCCTTGGTTGCCCACTGAGCTCA
 AGAGAAGAAGGAACAGTTGGACAGTGGTCACAGACCAAGCAAAGAGACGCAATCAGCAGCTGGTCTCAC
 CCTTCTCTGAACAGTGACCAAACCTTTACCTGATGAGCAACCTGGCTGGGGATGTTATCACAGCTGCA
 GTGACTGCAGCTATCAAAGACCAGTTAGAGGGTGTGCAGCAAGCACTTTCTCAGGCTGCCCCATCCAG
 AAGAGGACACAGACACTGAAGAAGGTGATGACTTTGAACTACTTGACCAGTCAAGCTGGAATTTGA
 GAGTGAATTGGGACTTACACAAGACCAGGAAGCAGAAGCAGCAAAAATAAGAAGTCTTCAGGTTTCCTT
 TCAAATCTGCTGGGAGGCCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208619 protein sequence
 Red=Cloning site Green=Tags(s)

MASPAPPEHAEEGCPAPAAEEQAPPSPPPPQASPAERQQEAAAQEAAGAEAGLQVEEAAGRAAAAVTW
 LLGEPVLWLGCRADLLSWKRPLRSLLGFVAANLLFWFLALTPWRVYHLISVMILGRVIMQIIKDMVLSR
 TRGAQLWRSLSSEWEVINSKPDPRPRLSHCIAESWMNFSIFLQEMSLFKQQSPGKFCLLVCSVCTFFIIL
 GSYIPGVILSYLLLLCAFLCPLFKCNDIGQKIYSKIKSVLLKLDGFIGEYINQKKRERSEADKEKSHKDD
 SELDFSALCPKISLTVAAKELSVSDTDVSEVSWTDNGTFNLSEGYPQTDTSDDLDRPSEEVFSRDLSD
 PSENGMGTNDEDELGLPTLKRKKEQLDSGHRPSKETQSAAGLTLPLNSDQTFHLSNLAGDVITAA
 VTAAIKQLEGVQQALSQAAPIPEEDTDEEGDDFELLDQSELDQIESELGLTQDQEAQAQNKSSGFL
 SNLLGGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6796_d01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_001034850

ORF Size: 1491 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

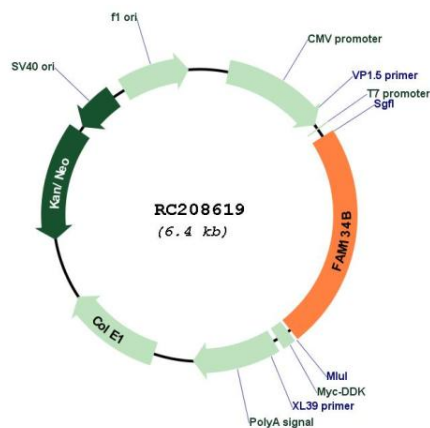
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001034850.2](#), [NP_001030022.1](#)
RefSeq Size: 3308 bp
RefSeq ORF: 1494 bp
Locus ID: 54463
UniProt ID: [Q9H6L5](#)
Cytogenetics: 5p15.1
Protein Families: Transmembrane
MW: 54.7 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 RC208619