

## Product datasheet for **SC321006**

### RETREG1 (NM\_001034850) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RETREG1 (NM_001034850) Human Untagged Clone
Tag:	Tag Free
Symbol:	RETREG1
Synonyms:	FAM134B; JK-1; JK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001034850.1  
CACAGCTGAAGATGGCGAGCCCGCGCCTCCGGAGCACGCCGAGGAGGGATGCCCGGCTC  
CTGCCCGCAGGAGCAGGCGCCGCGTCCGCGCCACCGCCAGGCATCCCCGCAGAGC  
GGCAGCAGCAGGAGGAGGAAGCGCAGGAAGCTGGGGCGGCGGAGGGCGCGGGGTTGCAGG  
TGGAGGAGGCCGCGGGCCGGCGCGCGGTAACCTGGTGTCTGGGGAGCCGGTGC  
TGTGGCTGGGCTGCCGCGCCAGCAGCTGCTGAGCTGGAAGAGGCCGCTCGCGAGCTGC  
TCGGCTTCGTCGCTGCCAACCTGCTGTTCTGGTTCCTTGCACTTACTCCATGGAGAGTAT  
ATCACCTGATTTCCGTCATGATACTTGGCGTGTATTATGCAAATAATAAAGGATATGG  
TTTTGTCTAGAACAAGAGGTGCACAGTTGTGGAGAAGCCTCAGTAAAAGCTGGGAAGTTA  
TCAATTCAAAACCAGATGAAAGACCCAGGCTCAGCCACTGTATTGCAGAATCATGGATGA  
ATTTCAAGATATTTCTTCAAGAAATGTCTCTTTTTAAACAGCAGAGCCCTGGCAAGTTTT  
GTCTCCTGGTCTGTAGTGTGTGCACATTTTTACGATCTTGGGAAGTTACATTCTGGGG  
TTATACTCAGCTATCTACTGTTACTGTGTGCATTTTTGTGTCCATTGTTAAATGTAATG  
ATATTGGACAAAAATTTACAGCAAAATTAAGTCAGTTCTGCTGAAACTGGATTTTGAA  
TTGGAGAAATATTAATCAGAAGAAACGTGAGAGATCTGAAGCAGATAAAGAAAAAGTC  
ACAAAGATGACAGTGAATTAGACTTTTTAGCTCTTTGTCTAAGATTAGCCTCACGGTTG  
CTGCCAAAGAGTTATCTGTGTCTGACACAGACGCTCAGAGGTATCCTGGACTGATAATG  
GGACCTTCAACCTTTTCAAGGATACACTCCACAGACAGACACTTCTGATGATCTTGACC  
GACCCAGTGAGGAAGTTTTCTCTAGAGATCTTTAGATTTTCCATCTCTAGAAAAAGGCA  
TGGGAACAAATGATGAAGATGAATTAAGCCTTGGTTTGGCCACTGAGCTCAAGAGAAAGA  
AGGAACAGTTGGACAGTGGTACAGACCAAGCAAAAGAGACGCAATCAGCAGCTGGTCTCA  
CCCTTCTCTGAACAGTGACCAACCTTTACCTGATGAGCAACCTGGCTGGGGATGTTA  
TCACAGCTGCAGTGACTGCAGCTATCAAAGACCAGTTAGAGGGTGTGCAGCAAGCATTT  
CTCAGGCTGCCCCATCCAGAAGAGGACACAGACACTGAAGAAGGTGATGACTTTGAAC  
TACTTGACCAGTCAGAGCTGGATCAAATTGAGAGTGAATTGGGACTTACACAAGACCAGG  
AAGCAGAAGCACAGCAAAATAAGAAGTCTTCAAGTTTCTTTCAAATCTGCTGGGAGGCC  
ATTAATCTAGGAATCAGCTTGAACAGAGCACAAAAAACCAAAAAATTTCAAACAAG  
AAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_001034850
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001034850.1](#), [NP\\_001030022.1](#)

**RefSeq Size:** 3259 bp

**RefSeq ORF:** 1494 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]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).