

## Product datasheet for **SC113288**

### RETREG1 (NM\_019000) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RETREG1 (NM_019000) Human Untagged Clone
Tag:	Tag Free
Symbol:	RETREG1
Synonyms:	FAM134B; JK-1; JK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_019000, the custom clone sequence may differ by one or more nucleotides

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ATGCCTGAAGGTGAAGACTTTGGACCAGGCAAAAAGCTGGGAAGTTATCAATTCCAACCAGATGAAAGAC
CCAGGCTCAGCCACTGTATTGCAGAATCATGGATGAATTTAGCATATTTCTTCAAGAAATGTCTCTTTT
TAAACAGCAGAGCCCTGGCAAGTTTTGTCTCCTGGTCTGTAGTGTGTGCACATTTTTTACGATCTTGGGA
AGTTACATTCTGGGGTTATACTCAGCTATCTACTGTTACTGTGTGCATTTTTGTGTCCATTGTTTAAAT
GTAATGATATTGGACAAAAATTTACAGCAAAATTAAGTCAGTTCTGCTGAAACTGGATTTTGGAAATTGG
AGAATATATTAATCAGAAGAAACGTGAGAGATCTGAAGCAGACAAAGAAAAAGTCACAAAGATGACAGT
GAATTAGACTTTTCAGCTCTTTGTCTAAGATTAGCCTCACGGTTGCTGCCAAAGAGTTATCTGTGTCTG
ACACAGACGTCTCAGAGGTATCCTGGACTGATAATGGGACCTTCAACCTTTCAGAAGGATACACTCCACA
GACAGACACTTCTGATGATCTTGACCGACCCAGTGAGGAAGTTTTCTCTAGAGATCTTTCAGATTTTCCA
TCTCTAGAAAAATGGCATGGGAACAAATGATGAAGATGAATTAAGCCTTGGTTTGGCCACTGAGCTCAAGA
GAAAGAAGGAACAGTTGGACAGTGGTCACAGACCAAGCAAGAGACGCAATCAGCAGCTGGTCTCACCCCT
TCCTCTGAACAGTGACCAACCTTTACCTGATGAGCAACCTGGCTGGGGATGTTATCACAGCTGCAGTG
ACTGCAGCTATCAAAGACCAGTTAGAGGGTGTGCAGCAAGCACTTCTCAGGCTGCCCCATCCCAGAAG
AGGACACAGACTGAAGAAGGTGATGACTTTGAACTACTTGACCAGTCAGAGCTGGATCAAATTTGAGAG
TGAATTTGGACTTACACAAGACCAGGAAGCAGAAGCACAGCAAAAATAAGAAGTCTTCAGGTTTCTTTCA
AATCTGCTGGGAGGCCATTAA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_019000 unedited  
 GTTTGNATTTATGTATACGACTCACTATAGGGNCCGGCCGCGCAATTCGGCACGCAGGGC  
 CTCACGGTTGCTGCCAAAGATTACTGTGTCTGACACAGACGCTCTCAGAGGTATCCTGGA  
 CTGATAATGGGACCTTCAACCTTTCAGAAGGATACACTCCACAGACAGACACTTCTGATG  
 ATCTTGACCGACCCAGTGAGGAAGCTTTCTCTAGAGATCTTTCAGATTTTCCATCTCTAG  
 AAAATGGCATGGGAACAAATGATGAAGATGAATTAAGCCTTGGTTTGCCCACTGAGCTCA  
 AGAGAAAGAAGGAACAGTTGGACAGTGGTCACAGACCAAGCAAAGAGACGCAATCAGCAG  
 CTGGTCTCACCTTCTCTGAACAGTGACCAAACCTTTCACCTGATGAGCAACCTGGCTG  
 GGGATGTTATCACAGCTGCACTGACTGCAGCTATCAAAGACCAGCTAGAGGGTGTGCAGC  
 AAGCACTCTCAGGCTGCCCCATCCCAGAAGAGGACACAGACACTGAAGAAGGTGATG  
 ACTTTGAACTACTTGACCAGTCAGAGCTGGATCAAATTGAGAGTGAATTGGGACTTACAC  
 AAGACCAGGAAGCAGAAGCCAGCAAAATAAGAAGTCTTCAGGTTTCTTTCAAAATCTGC  
 TGGGAGGCCACTTATCTAGAGATCAGCTTGCCACAGAGCANAACCCCAAAAAATTT  
 TAAACCAGAAAAATATTTTACACACACAAAAAACCTCGACTCTAAATTCGGCGCGC  
 GGCTTAACCTGTTTCTGAACAGAAACCCGGGTGGCATTCTTGGTGACCTTCCCAAT  
 GCCTCTCCTGCGCTCGAAAGTTGCCACTCCCGTGGCCTCACCACTTGGCCTTAATA  
 CAAATAAAGTGGCACCATTTTTGTCCGATAGAGTGCCTTCTATAATAGAGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_019000 unedited  
 GCAATCTATAGTCGAGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTGCAGAAATT  
 TTTTTGGAGTTTTTTGTCTCTGTTGCAAGCTGATTCCTAAATTAATGGCCTCCCACCAG  
 ATTTGAAAGGAAACCTGAAGACTTCTTATTTTGTGGGCTTCTGCTTCTGGTCTTGGGT  
 AAGTCCCAATTCCTCTCAATTTGATCCAGCTCTGACTGGTCAAGTAGTCAAAGTCATC  
 CACCTTCTCAGTGTCTGTGTCCTTCTGGGATGGGGGAGCCTGAAAAAGTGCTTGT  
 GCACACCTCTAACTGGTCTTTGATAGCTGCAGCCACTGCAGCTGTGATAACATCCCCAG  
 CCAGGTTGCTCATCAGGGGAAAGGTTTGGCCCCTGTCAAAGGAAAGGTGAAACCCCTG  
 CCGATCGCCTCTCTTTGCCTTGCCCGGGCCACTGTCCAATGCCCTTCTTTCTTTGAG  
 CTCCGTGGGCCACCCAAGGCCTAATTCCTCTCTCTCATTGCCCCCTCGCCCTCTTT  
 CATCAAACGGAAAACCTCACCCACCTCCTCAAAAACCCCTTCTGTGCGCCCTCACTCC  
 TTATACACCCCTCCCTCCCTATTCCTCTCCCCCTCTATGCCCCCTCCCTCCCTCCTC  
 GCCATTTCACCACCGCTCCCGTCGACCCCCATCCCTACCCCTTCTTCTCCCCCTCC  
 TCTCTCCCCCCCCCACCCTCCCCCACCCACCTTCCGCTCCCCCCCCCTTCCCTCC  
 CACTTCTTCTCCTTCCCCACCCCTTCTATAATCCCACTTCTCCCCCCCCCTCCTCC  
 TTCCCCCTATCCCTCCCTTCTCCTNTTCCCCCTTCCCGTCTTCCCTTCTCCTCC  
 AATATGTGCGCCCCATCACCCACCTCCCCGTCAGCCTAATACCTCTTCTTCTTCT  
 CCGTCCCTCCCCCTCC

**Restriction Sites:**

ECoRI-NOT

**ACCN:**

NM\_019000

**Insert Size:**

740 bp

**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).

**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\\_019000.1](#), [NP\\_061873.1](#)

**RefSeq Size:** 3184 bp

**RefSeq ORF:** 426 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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) is shorter and has a distinct N-terminus, compared to isoform 1.