

## Product datasheet for **MC203938**

### Retreg1 (NM\_025459) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Retreg1 (NM\_025459) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Retreg1  
**Synonyms:** 1810015C04Rik; AU015349; Fam134b; Retreg1d  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >BC019494

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GGAAAATGCTGGGCGACTGGGCAGCGCTCCTGCCAGCTGCCTGTACGGTGCTGGAGTGAGAGAGCCTG
TGCTGTGGACAAGACAGCATTCTCTGGCCATCAGCACAAAGCAGAGCGGCTCAAGTTCTAATTCTCAAAG
GGCAGAAATGCCTGCAGGCGGGCTGTGGACCAGGCAGAAGCTGGGAAGTCATCAATCCAAGCCAGAT
GAAAGAGCCAGACTGAGCCAGTGCATTGAGAATCATGGATGAATTTTCAGCATGTTTCTCAAGAAATGT
CTCTTTTTAAACAGCAGAGTCTGGCAAGTTTTGCCTCCTGGTCTGCAGTGTGTGCACATTTTTTACAAT
CTTGGGAAGTTACATTCTGGGGTCATACTCAGCTACCTTCTGTTACTGTTTGTCTTTTTTGTGTCCACTG
TTTAAATGTAATGATATTGGACAAAAAATACAGCAAAGTCAAGTCCATTCTATTTAAACTAGATTTTG
GAATTGGAGAATATTTAAACCAGAAGAAACGTGAGAGATCTGAAGCAGATAAAGAAAAAAGTCACAAGGA
TGACAGTGAATTAGACTTTTCAGCTCTTTGTCCTAAGATTAGCCTCACAGTTGCTGCCAAAGAGTTATCT
GTGTCAGACACAGATGTGTCAGAAGTCTTTGGACTGACAATGGGACCTTCAACCTTTCAGAGGGGTACA
CTCCGCAGACAGACACTTCTGACGATCTTGACCGCCAGTGAGGAAGTTTTCTCTCGAGATCTTTCAGA
TTTTCCATCTCTGAAAATGGGACGGGAACAAATGATGAAGATGAATTAAGCCTGGGCTTACCCACAGAG
CTCAAGAGAAAAGAAGCAGCAGTTGGATAGTGCTCACAGACCAAGCAAAGAACGGCAGTCGGCAGCTGGCC
TCTCACTTCTCTCAAGAGCGACCAAGCCCTTCACTTGATGAGCAACCTGGCTGGGGATGTCATCACAGC
CGCCATGACGGCTGCCATCAAAGACCAGCTAGAAGGAGCCCGGCAGGCACTCACTCAGGTGGCGCCCACT
GCGGGAGAGGACACAGACTGAGGAGGGGGATGACTTTGAACTACTTGACCAGGCAGAGCTAGATCAA
TTGAGAGTGAGCTGGGACTAACACAAGACCAAGGGGCAGAAGCCAGCAAAGTAAGAAATCCTCAGGCTT
CCTCTCCAATCTGCTTGGAGGCCATTAACCGGAATCACCTGGCAGCCAGCGAAGCACAGATAAACCACC
CAAAAAGTTCAAACAAGCAGGGGAAAAAATGGAAAAAATGGAATTGTAAAGCTTTAATTACTTTAGTT
TTTTTTCTTTTGTTTTGTCTTTTCTTTCCCTTCTATAGTGAGTTGGATGTGTATCAGTTGATAATGATAG
ACTGACATTTCTGATAGTTATTTTTCTGTAATAAGCATGGAAATGAACTTTATAGTTACATATATACATA
CTGTGGTGTCTAAGTGCTTAGGGGCTGTTTGTAAAGTGAAGAGAAAAA
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**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_025459



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<b>Insert Size:</b>	1071 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC019494</a> , <a href="#">AAH19494</a>
<b>RefSeq Size:</b>	1530 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	66270
<b>UniProt ID:</b>	<a href="#">Q8VE91</a>
<b>Cytogenetics:</b>	15 B1
<b>Gene Summary:</b>	<p>Endoplasmic reticulum-anchored autophagy receptor that mediates ER delivery into lysosomes through sequestration into autophagosomes (PubMed:26040720). Promotes membrane remodeling and ER scission via its membrane bending capacity and targets the fragments into autophagosomes via interaction with ATG8 family proteins (PubMed:26040720). Required for long-term survival of nociceptive and autonomic ganglion neurons (PubMed:19838196, PubMed:26040720).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region and uses an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct and shorter N-terminus, compared to isoform 1. Both variants 2 and 3 encode the same isoform (2). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>