

Product datasheet for **MC227026**

Retreg1 (NM_001277318) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Retreg1 (NM_001277318) Mouse Untagged Clone
Tag: Tag Free
Symbol: Retreg1
Synonyms: 1810015C04Rik; AU015349; Fam134b; Retreg1d
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227026 representing NM_001277318
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAATTCAGCATGTTCTTCAAGAAATGTCTCTTTTTAACAGCAGAGTCCTGGCAAGTTTTGCCTCC
TGGTCTGCAGTGTGTGCACATTTTTACAATCTGGGAAGTTACATTCCTGGGGTCATACTCAGCTACCT
TCTGTTACTGTTTCTTTTTGTGTCCACTGTTTAAATGTAATGATATTGGACAAAAATATACAGCAA
GTCAAGTCCATTCTATAAAACTAGATTTTGGAAATGGAGAATATATAACCAGAAGAAACGTGAGAGAT
CTGAAGCAGATAAAGAAAAAGTCACAAGGATGACAGTGAATTAGACTTTTCAGCTCTTTGTCTAAGAT
TAGCCTCACAGTTGCTGCCAAAGAGTTATCTGTGTGACACACAGATGTGTGAGAAGTCTCTTGGACTGAC
AATGGGACCTTCAACCTTTCAGAGGGGTACACTCCGCAGACAGACACTTCTGACGATCTTGACCGGCCCA
GTGAGGAAGTTTTCTCTCGAGATCTTTCAGATTTCCATCTCTGGAAAATGGGACGGGAACAAATGATGA
AGATGAATTAAGCCTGGGCTTACCCACAGAGCTCAAGAGAAAGAGCAGCAGTTGGATAGTGCTCACAGA
CCAAGCAAAGAACGGCAGTCGGCAGCTGGCCTCTCACTTCCTCTCAAGAGCGACCAAGCCCTTCACTTGA
TGAGCAACCTGGCTGGGATGTATCACAGCCGCATGACGGCTGCCATCAAAGACCAGCTAGAAGGAGC
CCGGCAGGCACTCACTCAGGTGGCGCCACTGCGGGAGAGGACACAGACACTGAGGAGGGGGATGACTTT
GAACTACTTGACCAGGCAGAGCTAGATCAAATGAGAGTGAGCTGGGACTAACACAGACCAAGGGGCAG
AAGCCAGCAAAGTAAGAAATCCTCAGGCTTCTCTCCAATCTGCTTGGAGGCCAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001277318
Insert Size: 969 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001277318.1</u> , <u>NP_001264247.1</u>
RefSeq Size:	2761 bp
RefSeq ORF:	969 bp
Locus ID:	66270
Cytogenetics:	15 B1
Gene Summary:	<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 (6) differs in the 5' UTR and 5' coding region and uses an alternate start codon, compared to variant 1. The encoded isoform (5) has a distinct and shorter N-terminus, compared to isoform 1. 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>