

Product datasheet for **MR229502**

Retreg1 (NM_001277316) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Retreg1 (NM_001277316) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Retreg1
Synonyms: 1810015C04Rik; AU015349; Fam134b; Retreg1d
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229502 representing NM_001277316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGGCGACTGGGCAGCGCTCCTGCCAGCTGCCTGTCACGGTGCTGGAGTGAGAGCTGGGAAGTCA
 TCAATTCAGCCAGATGAAAGAGCCAGACTGAGCCAGTGCATTGCAGAATCATGGATGAATTTTCAGCAT
 GTTTCTCAAGAAATGTCTCTTTTTAAACAGCAGAGTCTGGCAAGTTTTGCCTCCTGGTCTGCAGTGTG
 TGCACATTTTTACAATCTTGGGAAGTTACATTCTGGGGTCATACTCAGCTACCTTCTGTTACTGTTTTG
 CTTTTTGTGTCCACTGTTAAATGTAATGATATTGGACAAAAAATATACAGCAAAGTCAAGTCCATTCT
 ATTAAGTAGATTTTGGAAATGGAGAATATTAACCAGAAGAAACGTGAGAGATCTGAAGCAGATAAA
 GAAAAAGTCACAAGGATGACAGTGAATTAGACTTTTCAGCTCTTTGTCCTAAGATTAGCCTCACAGTTG
 CTGCCAAAGAGTTATCTGTGTCAGACACAGATGTGTCAGAAGTCTCTGGACTGACAATGGGACCTTCAA
 CCTTTAGAGGGGTACTCTCCGACAGACAGACTTCTGACGATCTTGACCGGCCAGTGAGGAAGTTTTCT
 TCTCGAGATCTTTCAGATTTTCCATCTCTGAAAAATGGGACGGGAACAAATGATGAAGATGAATTAAGCC
 TGGGCTTACCCACAGAGCTCAAGAGAAAGAAGCAGCAGTTGGATAGTGCTCACAGACCAAGCAAAGAAGC
 GCAGTCGGCAGCTGGCCTCTCACTTCTCTCAAGAGCGACCAAGCCCTTCACTTGATGAGCAACCTGGCT
 GGGGATGTCATCACAGCCGCATGACGGCTGCCATCAAAGACCAGCTAGAAGGAGCCCGGACGGCACTCA
 CTCAGGTGGCGCCACTGCGGGAGAGGACACAGACTGAGGAGGGGGATGACTTTGAACTACTTGACCA
 GGCAGAGCTAGATCAAATTGAGAGTGAGCTGGGACTAACACAAGACCAAGGGGCAGAAGCCAGCAAAGT
 AAGAAATCTCAGGCTTCTCTCAATCTGCTTGGAGGCCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	1092 bp
OTI Disclaimer:	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:	<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:	NM_001277316.1 , NP_001264245.1
RefSeq Size:	2811 bp
RefSeq ORF:	1095 bp
Locus ID:	66270
UniProt ID:	Q8VE91
Cytogenetics:	15 B1
MW:	40.6 kDa
Gene Summary:	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]