

## Product datasheet for **MR229395**

### Retreg1 (NM\_001277317) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Retreg1 (NM\_001277317) 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:** >MR229395 representing NM\_001277317  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGCTGGGAAGTCATCAATCCAAGCCAGATGAAAGAGCCAGACTGAGCCAGTGCATTGCAGAATCAT  
GGATGAATTTTCAGCATGTTTCTTCAAGAAATGTCTCTTTTAAACAGCAGAGTCTGGCAAGTTTTCCT  
CCTGGTCTGCAGTGTGTGCACATTTTTTACAATCTTGGGAAGTTACATTCCTGGGGTCATACTCAGCTAC  
CTTCTGTTACTGTTTGTCTTTTTGTGTCCACTGTTTAAATGTAATGATATTGGACAAAAATATACAGCA  
AAGTCAAGTCCATTCTATTAATACTAGATTTTGGGAATTGGAGAATATATTAACCAGAAAGAAACGTGAGAG  
ATCTGAAGCAGATAAAGAAAAAGTCAAGGATGACAGTGAATTAGACTTTTCAGCTCTTTGTCCTAAG  
ATTAGCCTCACAGTTGCTGCCAAGAGTTATCTGTGTGCAGACACAGATGTGTGAGAAGTCTTTGGACTG  
ACAATGGGACCTCAACCTTTCAGAGGGGTACACTCCGCAGACAGACACTTCTGACGATCTTGACCGGCC  
CAGTGAGGAAGTTTTCTCTCGAGATCTTTCAGATTTTCCATCTCTGAAAATGGGACGGGAACAAATGAT  
GAAGATGAATTAAGCCTGGCTTACCCACAGAGCTCAAGAGAAAGAAGCAGCAGTTGGATAGTGTCTACA  
GACCAAGCAAAGAACGGCAGTCGGCAGCTGGCCTCTCACTTCTCAAGAGCAGCAAGCCCTTCACTT  
GATGAGCAACCTGGCTGGGGATGTCATCACAGCCGCCATGACGGCTGCCATCAAAGACCAGCTAGAAGGA  
GCCCGGCAGGCACTCACTCAGGTGGCGCCACTGCGGGAGAGGACACAGACACTGAGGAGGGGGATGACT  
TTGAACTACTTGACCAGGCAGAGCTAGATCAAATTGAGAGTGAGCTGGGACTAACACAAGACCAAGGGGC  
AGAAGCCAGCAAAGTAAGAAATCCTCAGGCTTCTCTCCAATCTGCTTGGAGGCCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229395 representing NM\_001277317  
 Red=Cloning site Green=Tags(s)

MSWEVINSKPDERARLSQCIAESWMNFSMFLQEMSLFKQQSPGKFCLLVCSVCTFFFTILGSYIPGVILSY  
 LLLLFAFLCPLFKCNDIGQKIYSKVKSILLKLDGFGIGEYINQKKRERSEADKEKSHKDDSELDIFSALCPK  
 ISLTVAAKELSVSDTDVSEVSWTDNGTFNLSEGYPQTDTSDDLDRPSEEVF SRDLSDFPSENGTGTND  
 EDEL SLGLPTELKRKKQQLDSHRPSKERQSAAGLSLPLKSDQALHLSNLAGDVITAAMTAAIKDQLEG  
 ARQALTQVAPTAGEDTDEEGDDFELLDQAELDQIESELGLTQDQGAEAQSKKSSGFLSNLLGGH

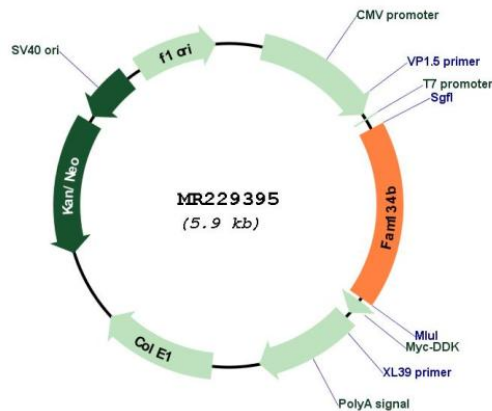
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001277317

**ORF Size:** 1038 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_001277317.1</a> , <a href="#">NP_001264246.1</a>
<b>RefSeq Size:</b>	2789 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	66270
<b>UniProt ID:</b>	<a href="#">Q8VE91</a>
<b>Cytogenetics:</b>	15 B1
<b>MW:</b>	38.6 kDa
<b>Gene Summary:</b>	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]