

Product datasheet for **MR205439**

Retreg1 (NM_025459) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retreg1 (NM_025459) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Retreg1
Synonyms:	1810015C04Rik; AU015349; Fam134b; Retreg1d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205439 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGCAGGCGCGGCTGTGGACCAGGCAGAAGCTGGGAAGTCATCAATTCGAAGCCAGATGAAAGAG
CCAGACTGAGCCAGTGCATTGCAGAATCATGGATGAATTCAGCATGTTTCTTCAAGAAATGTCTCTTTT
TAAACAGCAGAGTCTGGCAAGTTTGCCTCCTGGTCTGCAGTGTGTGCACATTTTTACAATCTTGGGA
AGTTACATTCTGGGGTCATACTCAGCTACCTTCTGTTACTGTTGCTTTTTTGTGTCCACTGTTAAAT
GTAATGATATTGGACAAAAATATACAGCAAAGTCAAGTCCATTCTATTAATACTAGATTTTGAATTGG
AGAATATATTAACCAGAAGAAACGTGAGAGATCTGAAGCAGATAAAGAAAAAGTACAAGGATGACAGT
GAATTAGACTTTTCAGCTCTTTGTCCTAAGATTAGCCTCACAGTTGCTGCCAAAGAGTTATCTGTGTGAG
ACACAGATGTGTGAGAAGTCTCTTGGACTGACAATGGGACCTTCAACCTTTCAGAGGGGTACACTCCGCA
GACAGACACTTCTGACGATCTTGACCGGCCAGTGAGGAAGTTTTCTCTCGAGATCTTTCAGATTTTCCA
TCTCTGGAAAATGGGACGGGAACAAATGATGAAGATGAATTAAGCCTGGGCTTACCCACAGAGCTCAAGA
GAAAGAAGCAGCAGTTGGATAGTGCTCACAGACCAAGCAAAGAACGGCAGTCGGCAGCTGGCCTCTCACT
TCCTCTCAAGAGCGACCAAGCCCTTCACTTGATGAGCAACCTGGCTGGGGATGTATCACAGCCGCCATG
ACGGCTGCCATCAAAGACCAGCTAGAAGGAGCCCGGCAGGCACTCACTCAGGTGGCGCCACTGCGGGAG
AGGACACAGACTGAGGAGGGGATGACTTTGAACTACTTGACCAGGCAGAGCTAGATCAAATGAGAG
TGAGCTGGGACTAACACAAGACCAAGGGGCGAGAAGCCAGCAAAGTAAGAAATCCTCAGGCTTCTCTCC
AATCTGCTTGAGGCCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205439 protein sequence
Red=Cloning site Green=Tags(s)

MPAGGGCGPGRSWEVINSKPDERARLSQCIAESWMNFSMFLQEMSLFKQQSPGKFCLLVCSVCTFFITLG
 SYIPGVILSYLLLLFAFLCPLFKCNDIGQKIYSKVKSIILLKDFGIGEYINQKKRERSEADKEKSHKDDS
 ELDFSALCPKISLTVAAKELSVSDTDVSEVSWTDNGTFNLSEGYTPQTDTSDDLDRPSEEVFSRDLSDFP
 SLENGTGTNDEDEL SLGLPTELKRKKQLDSAHRPSKERQSAAGLSLPLKSDQALHLSNLAGDVITAAM
 TAAIKDQLEGARQAL TQVAPTAGEDTDTTEEGDDFELLDQAELDQIESELGLTQDQGAEAQQSKKSSGFLS
 NLLGGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025459

ORF Size: 1071 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:

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_025459.3](#)

RefSeq Size: 2929 bp

RefSeq ORF: 1071 bp

Locus ID: 66270

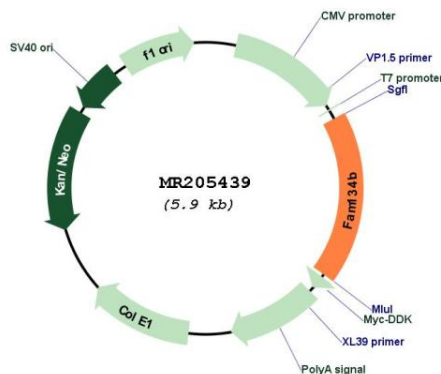
UniProt ID: [Q8VE91](#)

Cytogenetics: 15 B1

MW: 39 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]

Product images:



Circular map for MR205439