

Product datasheet for **MG205439**

Retreg1 (NM_025459) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Retreg1 (NM_025459) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Retreg1
Synonyms: 1810015C04Rik; AU015349; Fam134b; Retreg1d
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205439 representing NM_025459
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCAGGCGGGCTGTGGACCAGGCAGAAGCTGGGAAGTCATCAATTCAGCCAGATGAAAGAG
 CCAGACTGAGCCAGTGCATTGCAGAATCATGGATGAATTCAGCATGTTTCTTCAAGAAATGTCTTTTT
 TAAACAGCAGAGTCTGGCAAGTTTGCCTCCTGGTCTGCAGTGTGTGCACATTTTTTACAATCTGGGA
 AGTTACATTCTGGGGTCATACTCAGCTACCTTCTGTTACTGTTGCTTTTTTGTGCCACTGTTAAAT
 GTAATGATATTGGACAAAAATATACAGCAAAGTCAAGTCCATTCTATTAATACTAGATTTTGAATTGG
 AGAATATATTAACCAGAAGAAACGTGAGAGATCTGAAGCAGATAAAGAAAAAGTACAAGGATGACAGT
 GAATTAGACTTTTCAGCTCTTTGTCCTAAGATTAGCCTCACAGTTGCTGCCAAAGAGTTATCTGTGTGAG
 ACACAGATGTGTGAGAAGTCTCTTGACTGACAATGGGACCTTCAACCTTTCAGAGGGGTACACTCCGCA
 GACAGACTTCTGACGATCTTGACCGGCCAGTGAGGAAGTTTTCTCTCGAGATCTTTCAGATTTTCCA
 TCTTGAAAAATGGGACGGGAACAAATGATGAAGATGAATTAAGCCTGGGCTTACCCACAGAGCTCAAGA
 GAAAGAAGCAGCAGTTGGATAGTGCTCACAGACCAAGCAAAGAACGGCAGTCGGCAGCTGGCCTCTCACT
 TCCTCTCAAGAGCGACCAAGCCCTTCACTTGATGAGCAACCTGGTGGGGATGTATCACAGCCGCATG
 ACGGCTGCCATCAAAGACCAGCTAGAAGGAGCCCGCAGGCACTCACTCAGGTGGCGCCACTGCGGGGAG
 AGGACACAGACTGAGGAGGGGATGACTTTGAACTACTTGACCAGGCAGAGCTAGATCAAATGAGAG
 TGAGCTGGGACTAACACAAGACCAAGGGCAGAAGCCAGCAAAGTAAGAAATCCTCAGGCTTCTCTCC
 AATCTGCTTGAGGCCAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205439 representing NM_025459
 Red=Cloning site Green=Tags(s)

MPAGGGCGPGRSWEVINSKPDERARLSQCIAESWMNFSMFLQEMSLFKQQSPGKFCLLVCSVCTFFITLGSYIPGVILSYLLLLFAFLCPLFKCNDIGQKIYSKVKSIILLKDFGIGEYINQKKRERSEADKEKSHKDDSELDFSA LCPKISLTVAAKELSVSDTDVSEVSWTDNGTFNLSEGYTPQTDTSDDLDRPSEEVFSRDLSDFPSLENGTGTNDEDELSLGLPTELKRKKQQLDSAHRPSKERQSAAGLSLPLKSDQALHLSNLAGDVITAAMTAAIKDQLEGARQALTVAPTAGEDTDTTEEGDDFELLDQAE L DQIESELGLTQDQGAEAQQSKKSSGFLSNLLGGH

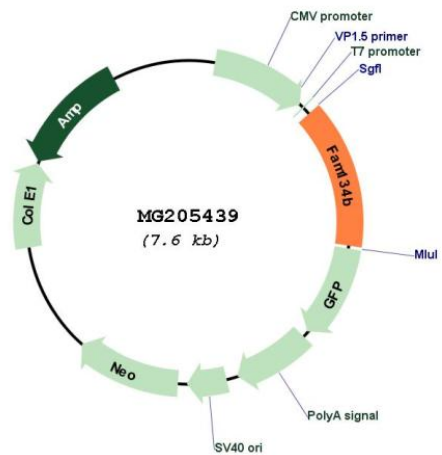
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025459

ORF Size:	1068 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_025459.3
RefSeq Size:	1530 bp
RefSeq ORF:	1071 bp
Locus ID:	66270
UniProt ID:	Q8VE91
Cytogenetics:	15 B1
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]