

Product datasheet for **MG21897**

Atg10 (NM_025770) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg10 (NM_025770) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atg10
Synonyms:	5330424L23Rik; 5430428K15Rik; Agp10; AI852123; APG10; Apg10I; Apg10p; Atg10I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG21897 representing NM_025770 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGATGAGTTCTTTGGAGAAAAAGCTTCCAGCATTATTGTGCAGAATTCATCAGACATTCACAGC
AGATAGGCGATGGCTGGGAATGGAGAACAGCCAAGGAATGTTCTGATGGCTACATGTGCAAAACACAGTT
TCGAATAAAGAATGAGACCTTGACACCACATGCCAGTGTGCTCACATGTCTCCCTACAGAGGAGAATTTA
GAGCTACCAATGGATGATTCTGAAGTGACGAGACCTGCAGCGGTGCCAGAAGTGATTAACATGAGTATC
ATGTCTTATACTCTTGTAGTTACCAAGTGCCGGTCTTTACTTTAGGGCAAGCTTTTTAGATGGGAGACC
GTTAGCTCTGGAGGATATATGGGAAGGTGTTTCATGAGTGTATAAGCCGAGGCTGCTCCAGGGACCGTGG
GATACCATCACCCAGCAGGAACATCCAATCTTGGCAACCATTTTTTGTCTACATCCCTGCAAGACAA
ATGAATTCATGACTGCTGTGCTAAAGAATTCACAGAAAATCAATAGAAATGTCAACTATATCACATCATG
GCTGAGCCTCGTGGGCCAGTGGTTGGTCTGAATTTACCTCTGAGCTATGCTAAAGCAACATCACAATCG
GAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218897 representing NM_025770
 Red=Cloning site Green=Tags(s)

MEDEFFGEKSFQHYCAEFIRHSQQIGDGWEWRTAKECSGYMCKTQFRIKNETLTPHASVLTCLPTEENL
 ELPMDSEVTRPAAAVAEVIKHEYHVLVYSCSYQVPVLYFRASFLDGRPLALEDIWEGVHECYKPRLLQGPW
 DTITQEQHPILGQPFVFLHPCKTNEFMTAVLKNSQKINRNVNYITSWLSLVGPVVGLNLPLSYAKATSQS
 E

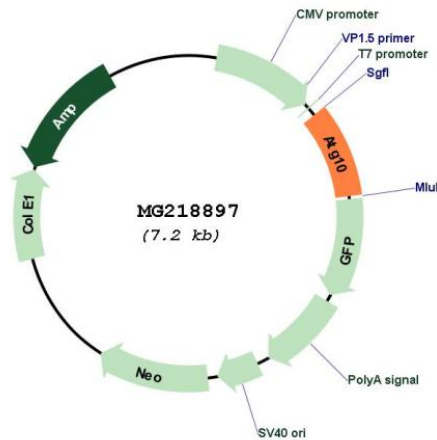
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025770

ORF Size: 633 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_025770.3 , NP_080046.3
RefSeq Size:	1609 bp
RefSeq ORF:	636 bp
Locus ID:	66795
UniProt ID:	Q8R1P4
Cytogenetics:	13 C3
Gene Summary:	E2-like enzyme involved in autophagy. Acts as an E2-like enzyme that catalyzes the conjugation of ATG12 to ATG5. ATG12 conjugation to ATG5 is required for autophagy. Likely serves as an ATG5-recognition molecule. Not involved in ATG12 conjugation to ATG3. Plays a role in adenovirus-mediated cell lysis.[UniProtKB/Swiss-Prot Function]