

Product datasheet for **MG201251**

Agtrap (NM_009642) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Agtrap (NM_009642) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Agtrap
Synonyms: 3300002E14Rik; AT1R; Atrap; D4Wsu124e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201251 representing NM_009642
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTGCCTGCCGTGAAGTTATTCTCCTGGTTCCTGGCTGTTGACAACCTGGGGCTGCT
 TGGTGTCTCAAGCTCCTATGCTTGGGGCAACTTCACTATCCTGGCCCTGGGTGTGTGGCTGTGGCCCA
 GCGGGACTCTATAGATGCCATAGGCATGTTTCTTGGTGGCTTGGTTGCCACCATCTTCTGGACATTATC
 TACATTAGCATCTTCTACTCGAGTGTGCCACTGGGACACTGGCCGCTTCGGCGCCGGCATGGCCATCC
 TCAGCTTGCTGCTGAAGCCCTTCTTGTGCTGCCTCGTCTACCACATGCACCGTGAACGAGGGGGTGAGCT
 CCCCTCCGCCCGATTCTTCCGACCCTCTCAGGAGCACAGTGCCTACCAGACAATTGACTCATCATCA
 GACGCTGCTGCAGACCCCTTGAAGCCTGGAGAACAAGGGCCAAGCTGTCCCCGGGGGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201251 representing NM_009642
 Red=Cloning site Green=Tags(s)

MELPAVNLKVILLVHWLLTTWGCLVFSSSYAWGNFTILALGVWAVAQRDSIDAIGMFLGGLVATIFLDII
 YISIFYSSVATGDTGRFGAGMAILSLLKPFSCCLVYHMRERGGELPLRPDFFGPSQEHAYQTIDSSS
 DAAADPFASLENKGQAVPRGY

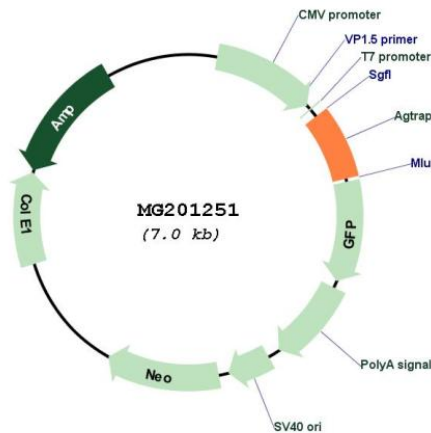
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_009642

ORF Size: 483 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:	<u>NM_009642.5</u>
RefSeq Size:	4047 bp
RefSeq ORF:	486 bp
Locus ID:	11610
UniProt ID:	<u>Q9WVK0</u>
Cytogenetics:	4 78.67 cM
Gene Summary:	Appears to be a negative regulator of type-1 angiotensin II receptor-mediated signaling by regulating receptor internalisation as well as mechanism of receptor desensitization such as phosphorylation. Induces also a decrease in angiotensin II-stimulated transcriptional activity. May play a role of negative regulator in cardiomyocyte hypertrophy induced by angiotensin II through an inhibition of p38 mitogen-activated protein kinase pathway.[UniProtKB/Swiss-Prot Function]