

Product datasheet for MR201251

Agtrap (NM_009642) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Agtrap (NM_009642) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Agtrap
Synonyms: 3300002E14Rik; AT1R; Atrap; D4Wsu124e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201251 representing NM_009642
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTGCCTGCCGTGAAGTTATTCTCCTGGTTCCTGGCTGTTGACAACCTGGGGCTGCT
 TGGTGTCTCAAGCTCCTATGCTTGGGGCACTCACTATCCTGGCCCTGGGTGTGTGGCTGTGGCCCA
 GCGGGACTCTATAGATGCCATAGGCATGTTTCTGGTGGCTTGGTTGCCACCATCTTCTGGACATTATC
 TACATTAGCATCTTCTACTCGAGTGTGCCACTGGGACACTGGCCGCTTCGGCGCCGGCATGGCCATCC
 TCAGCTTGCTGCTGAAGCCCTTCTTGTGCTCGTCTACCACATGCACCGTGAACGAGGGGGTGAGCT
 CCCCTCCGCCCGATTCTTCCGACCCTCTCAGGAGCACAGTGCCTACCAGACAATTGACTCATCATCA
 GACGCTGCTGACAGCCCTTGTGAAGCCTGGAGAACAAGGGCCAAGCTGTCCCCGGGGGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201251 representing NM_009642
 Red=Cloning site Green=Tags(s)

MELPAVNLKVILLVHWLLTTWGCLVFSSSYAWGNFTILALGVWAVQQRDSIDAIGMFLGGLVATIFLDII
 YISIFYSSVATGDTGRFGAGMAILSLLLPKPFSCCLVYHMHRRERGELPLRPDFFGSPQEHSAQTIDSSS
 DAAADPFASLENKGQAVPRGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


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:**
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_009642.5](#)

RefSeq Size: 4047 bp

RefSeq ORF: 486 bp

Locus ID: 11610

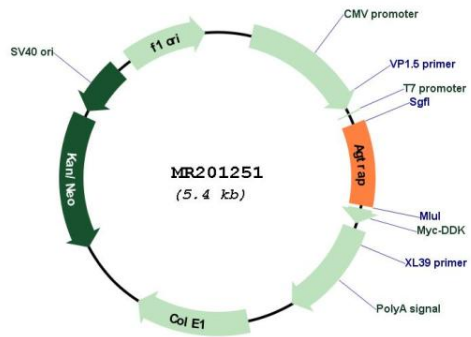
UniProt ID: [Q9WVK0](#)

Cytogenetics: 4 78.67 cM

MW: 18 kDa

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]

Product images:



Circular map for MR201251