

Product datasheet for **RR206078**

Agtrap (NM_001007654) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Agtrap (NM_001007654) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Agtrap
Synonyms: MGC95145
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206078 representing NM_001007654
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGCTGCCTGCCGTGAAGTTATTCTCCTGGTTCCTGGCTGTTGACAACCTGGGGCTGCT
TGGCGTTCAGGCTCCTATGCTGGGGCAACTCACTATCCTGGCCCTGGGTGTGTGGCTGTGCCCA
GCGGGACTCTGTGATGCCATTGGCATGTTTCTGGTGGCTTGGTTGCCACCATCTCCTGGACATTATC
TACATTAGCATCTTACTCAAGCGTTGCCGTTGGGGACTGGCCGCTTCAAGTCCGGCATGGCCATCT
TCAGCTTGCTGCTGAAGCCCTTCTCCTGCTGCCTCGTCTACCACATGCACCGGGAGCGGGGTGAGCT
CCCCTCCGCTCGGATTTCTTCGGACCTTCTCAGGAACATAGTGCCTACCAGACAATTGACTCGTCAGAC
TCACCTGCAGACCCCTTGAAGCCTGGAGAACAAGGGCCAAGCTGCCCCCGGGGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206078 representing NM_001007654
Red=Cloning site Green=Tags(s)

MELPAVNLKVILLVHWLLTTWGCLAFSGSYAWGNFTILALGVWAVAQRDSVDAIGMFLGGLVATIFLDII
YISIFYSSVAVGDTGRFSAGMAIFSLLLKPFSCCLVYHMHRRGGELPLRSDFFGPSQEHSAYQTIDSSD
SPADPLASLENKGQAAPRGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

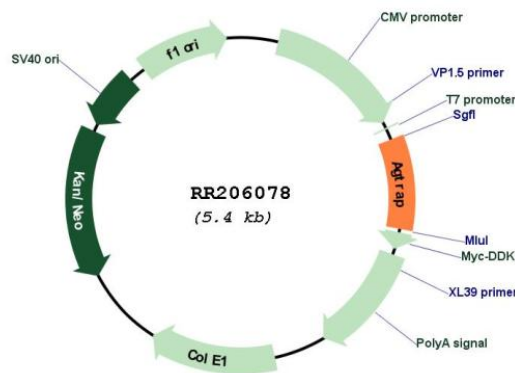
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001007654

ORF Size: 480 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_001007654.1, NP_001007655.1</u>
RefSeq Size:	2179 bp
RefSeq ORF:	483 bp
Locus ID:	298646
UniProt ID:	<u>Q642A2</u>
Cytogenetics:	5q36
MW:	17.4 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. May play a role of negative regulator in cardiomyocyte hypertrophy induced by angiotensin II through an inhibition of p38 mitogen-activated protein kinase pathway. Attenuates type-1 angiotensin II receptor growth promoting effect and angiotensin II-induced phosphorylation of protein kinase AKT and of STAT3.[UniProtKB/Swiss-Prot Function]