

Product datasheet for **RR205143**

Atg5 (NM_001014250) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atg5 (NM_001014250) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atg5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205143 representing NM_001014250
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGACAGATGACAAAGATGTGCTTCGAGACGTGTGGTTGGACGGATTCCAACGTGCTTTACTCTCTATC
AGGATGAGATACTGAACGAGAAGCAGAGCCATACTATTTGCTTTTGCCAAGAGTCAGCTATTTGACGCT
GGTAACTGACAAAGTGAAAAGCACTTTCAGAAGTTATGAGACAAGAAGATGTTAGTGAGATTTGGTTT
GAATATGAAGGCACACCCTGAAATGGCATTATCCAATTGGCCTACTGTTTCGATCTTCTGCATCAAGCT
CAGCTCTGCCTTGAACATCACAGTACATTTCAAGAGTTTTCCAGAAAAGGACCTTCTGCACTGTCCGTG
CAAGGATGCAGTTGAGGCTCACTTTATGTGATGTGAAGGAAGCTGACGCTTTAAAGCACAAAAGTCAG
GTGATCAACGAAATGCAGAGAAAAGACCACAAGCAGCTCTGGATGGGACTGCAGAATGATTTGACCAGTT
TTGGACCATCAACCGAAACTCATGGAATACCCTCCAGAAGAAAATGGATTTTCGTTATATCCCTTTAGA
ATATATCAGACCACAACGAACGGCCTTTCATTGAGAAGCTGTTCCGTCCTGTGGCCGAGATGGACAGC
TGCATACCCTTGAGATCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205143 representing NM_001014250
Red=Cloning site Green=Tags(s)

MTDDKDVLRDVFGRIPTCFTLYQDEITEREAEPYLLPRVSYLTLVTDKVKKHFQKVMRQEDVSEIWF
EYEGTPLKWHYPIGLLFDLLASSSALPWNITVHFKSFPEKDLLHCPCKDVAEAFMSCVKEADALKHKSQ
VINEMQRKDHKQLWMGLQNDLTSFGPSTGNSWNTLQKMDVVISLLEYIRPQLNGLSFRSCSVLWPQMDS
CIPLEIS

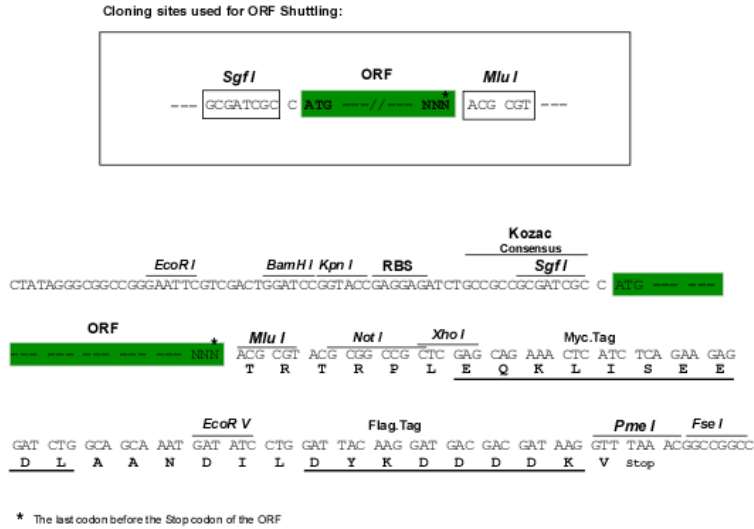
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



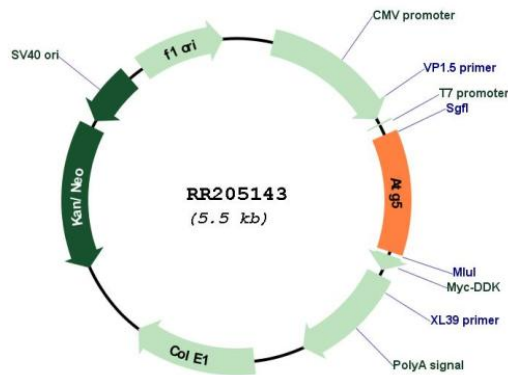
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014250

ORF Size: 651 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_001014250.1, NP_001014272.1</u>
RefSeq Size:	2278 bp
RefSeq ORF:	654 bp
Locus ID:	365601
Cytogenetics:	20q13
MW:	25.4 kDa