

Product datasheet for **RR216445**

Atp6ap2 (NM_001007091) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp6ap2 (NM_001007091) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atp6ap2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216445 representing NM_001007091
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTGCTTGTCTCTCTCTCTCTCTGGTGTGAGTGTCTTAGCGAATGAATTTAGCATATTA
GATCGCCAGGGTCTGTTGTTTTCCGAAATGAAATTTGGCCTATACCAGGAGATCGAATCCCAGATGTAGC
TGCACTGTCCATGGGCTTCTGTGAAGGAAGACCTGTCTGGCCAGGGCTTGTGTGGCAACCTATTC
CACCGGCCCGGGCTACCATTATGGTGACAGTGAAGGGGTAGATAAACTGGCTCTCCCCACAGGCAGCG
TCATCTCTTACCCTTTGGAGAATGCAGTTCCTTTAGTCTTGACAGTGTGGCCAATTCATTCACTCCTT
ATTTTCGGAGGAGACTCCTGTAGTTTTGCGAGTTGGCCCCAGTGAGGAAAGAGTGTATATGGTGGGAAA
GCAAACCTCTGATTTGAAGACCTTTCAGTCACATTGCGTCAGCTCCGTAATCGCCTGTTTCAAGAAAAC
CTGTTCTCAACTCGTCCCCCTCAATTCTCTGAGTAGGAATAATGAAGTTGACCTGCTATTTCTTCTGA
ACTGCAAGTGTGCATGATATTTCAAGTTTGTGTCTCGTCATAAGCATCTCGCCAAGGATCATTCTCCC
GACTTGTATTCAGTGGAGCTGGCAGTTTGGATGAGCTTGGGAAGCGTTATGGAGAAGACTCTGAACAAT
TCCGGGATGCTTCTCGGATCCTTGTGATGCTCTCCAAAAGTTTGCAGATGACATGTACAGTCTCTATGG
TGGGAATGCAGTGGTAGAGTTGGTACTGTCAAATCATTGACACATCCCTGGTGAAGGCAAGGACC
ATCCTTGAGACGAAACAAGAAACACCCAAAGTCCCTACAACCTTGCATATAAGTATAATTTGGAGTATT
CGGTGGTTTTCAACTTGGTACTGTGGATTATGACTGGCTTGGCCTGGCTGTGATAATCACCTCTTACAA
CATTTGGAATATGGATCTGGATATGATAGCATCATTTATAGGATGACAAACCAGAAGATTGCAATGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216445 representing NM_001007091
 Red=Cloning site Green=Tags(s)

MAVLVLLSSLVSSALANEFILRSPGSVVFNRNGNWPPIGDRIPDVAALSMGFSVKEDLSWPGLAVGNLF
 HRPRATIMVTVKGVDKLALPTGSVISYPLENAVPFSLDSVANSIHSLFSEETPVVLQLAPSEERVYMGK
 ANSVFEDLSVTLRQLRNRLFQENSVLNSLPLNSLSRNNEVDLLFLSELQVLHDISSLLSRHKHLAKDHSP
 DLYSLELAGLDELGKRYGEDSEQFRDASRILVDALQKFADDMYSLYGGNAVVELVTYKSFDTSLVRKSR
 ILETQKENTQSPYNLAYKYNLEYSVFNLVWIMTGLALAVIITSYNIWNMDPGYDSIIYRMTNQKIRMD

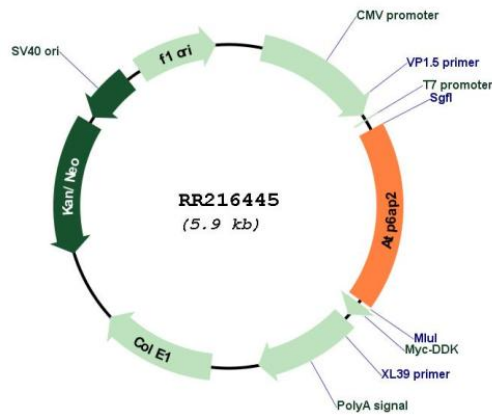
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007091

ORF Size:	1050 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_001007091.1 , NP_001007092.1
RefSeq Size:	1170 bp
RefSeq ORF:	1053 bp
Locus ID:	302526
UniProt ID:	Q6AXS4
Cytogenetics:	Xq12
MW:	39.1 kDa
Gene Summary:	Functions as a renin and prorenin cellular receptor. May mediate renin-dependent cellular responses by activating ERK1 and ERK2. By increasing the catalytic efficiency of renin in AGT/angiotensinogen conversion to angiotensin I, it may also play a role in the renin-angiotensin system (RAS) (By similarity).[UniProtKB/Swiss-Prot Function]