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Product datasheet for RR202146

Atp1a3 (NM_012506) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1a3 (NM_012506) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp1a3
Synonyms:	Atpa1a3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202146 representing NM_012506 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGGGACAAAAAAGATGACAAGAGCTCGCCCAAGAAGAGCAAGGCCAAAGAGCGCCGGGACCTGGATG ACCTCAAGAAGGAAGTGGCTATGACAGAGCACAAGATGTCAGTAGAAGAGGTCTGCCGGAAATACAATAC CGACTGCGTGCAGGGTCTGACACACAGTAAAGCCCAGGAGATCCTAGCCCGGGATGGGCCTAACGCCCTC ACACCACCGCCCACCACCCCAGAATGGGTCAAGTTCTGCCGACAGCTATTTGGTGGCTTCTCCATCCTGC TGTGGATCGGGGCGATCCTTTGCTTCCTGGCCTATGGCATCCAGGCAGGGACTGAGGATGACCCTTCCGG TGACAATCTGTACCTGGGCATAGTGCTGGCCGCTGTGGTGATCATCACCGGCTGCTTCTCCTACTACCAA GAAGCCAAGAGCTCTAAGATTATGGAGTCCTTCAAGAACATGGTTCCCCAGCAAGCCCTTGTGATCCGGG AAGGTGAAAAGATGCAGGTGAATGCGGAGGAGGTGGTGGTCGGGGACCTGGTGGAGATCAAGGGTGGCGA CCGGGTGCCCGCTGACCTGCGCATCATCTCGGCCCATGGCTGCAAGGTGGACAACTCTTCCCTGACTGGC GAATCTGAGCCTCAGACCCGCTCCCCGGACTGCACACACGACAACCCACTGGAGACCCGGAACATCACCT TCTTTTCCACCAACTGTGTGGAAGGCACCGCTCGTGGTGTGGTGGTAGCCACAGGTGACCGCACCGTCAT GGGCCGCATTGCCACCCTGGCCTCAGGCCTGGAGGTGGGCAAGACGCCCATCGCCATTGAGATCGAGCAC TTCATCCAGCTCATCACTGGCGTGGCCGTGTTCCTGGGCGTCTCCTTCTTCATCCTCTCCCTCATTCTGG GCTACACCTGGCTGGAGGCTGTCATCTTCCTCATCGGTATCATTGTGGCCAATGTCCCAGAGGGGCTGCT GGCTACTGTCACGGTGTGTCTGACGCTGACCGCCAAGCGCATGGCTCGGAAGAACTGTCTGGTAAAGAAC CTGGAGGCGGTGGAGACGCTAGGCTCCACATCCACCATCTGCTCCGACAAGACCGGCACCCTCACCCAGA ACCGCATGACCGTCGCCCACATGTGGTTTGACAACCAGATCCACGAGGCCGACACTACTGAGGATCAGTC AGGGACCTCTTTCGACAAGAGCTCACACACCTGGGTGGCCCTGTCCCACATCGCCGGTCTCTGCAACCGG GCTGTCTTCAAGGGCGGGCAGGATAACATCCCTGTACTCAAGAGGGACGTGGCGGGTGATGCCTCAGAGT CCGCCCTGCTTAAGTGCATCGAGCTGTCCTCGGGTTCCGTAAAGCTGATGCGCGAACGAAACAAGAAAGT GGCCGAGATTCCCTTCAACTCCACTAACAAATACCAGCTATCCATCCATGAGACTGAGGACCCCAATGAC AACCGATACCTGTTAGTGATGAAGGGCGCCCCTGAACGCATTCTGGACCGCTGTGCGACCATCCTCCTGC

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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202146 representing NM_012506
Red=Cloning site Green=Tags(s)

MGDKKDDKSSPKKSKAKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILARDGPNAL
TPPPTTPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDPSGDNLYLGIVLAAVVIITGCFSYYQ
EAKSSKIMESFKNMVPQQALVIREGEKMQVNAEEVVVGDLVEIKGGDRVPADLRIISAHGCKVDNSSLTG
ESEPQTRSPDCTHDNPLETRNITFFSTNCVEGTARGVVVATGDRTVMGRIATLASGLEVGKTPIAIEIEH
FIQLITGVAVFLGVSFFILSLILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKN
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AVFKGGQDNIPVLKRDVAGDASESALLKCIELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPND
NRYLLVMKGAPERILDRCATILLQGKEQPLDEEMKEAFQNAYLELGGLGERVLGFCHYYLPEEQFPKGFA
FDCDDVNFTTDNLCFVGLMSMIDPPRAAVPDAVGKCRSAGIKVIMVTGDHPITAKAIAKGVGIISEGNET
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IVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVTGVEEGRLIFDNLKKSIAYTL
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SMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLEDSYGQQWTYEQRKVVEFTFHT
AFFVSIVVVQWADLIICKTRRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKPSWWFC
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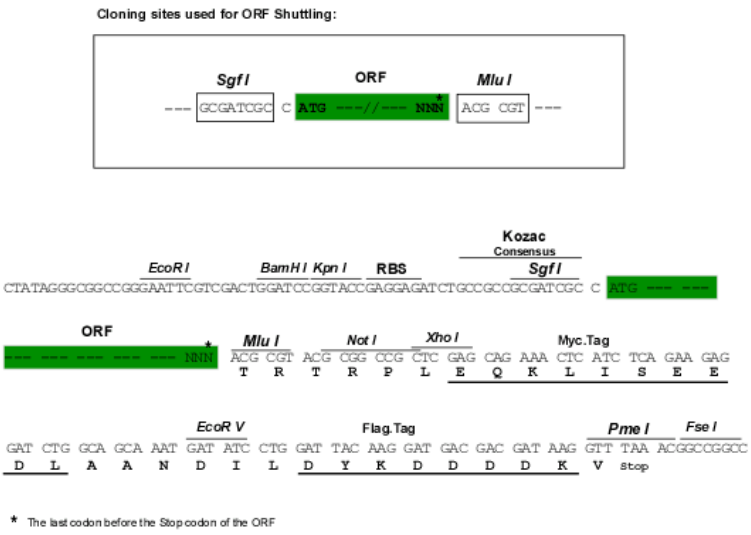
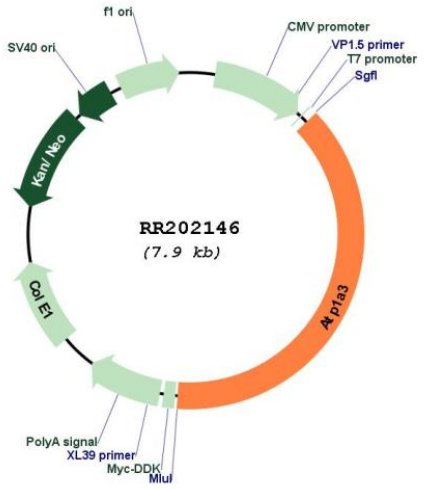
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012506

ORF Size: 3039 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_012506.1, NP_036638.1
RefSeq Size:	3559 bp
RefSeq ORF:	3042 bp
Locus ID:	24213
UniProt ID:	P06687
Cytogenetics:	1q21
MW:	111.7 kDa
Gene Summary:	contains 4.5 kb and 6 kb transcripts that display differential tissue expression [RGD, Feb 2006]