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Product datasheet for RR215209

Ampd1 (NM_138876) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ampd1 (NM_138876) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ampd1
Synonyms:	Ampd01; RATAMPD01
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RR215209 representing NM_138876
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCTGTTCAAACTTACAGGTCAAGGAAAACAAATTGATGATGCAATGCGTAGCTTTGCTGAAAAAG
TATTTGCCTCAGAAGTCAAAGATGAGGGAGGTCGGCACGAGATCTCCCCCTTCGACGTGGATGAGATCTG
CCCAATTTCCCTTCGTGAGATGCAGGCCCACATATTCCACATGGAGAACCTGTCCATGTCCATGGATGGC
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GGTGCAGATCACTGGTGACTATGCCTCTGGGGTAACTGTTGAAGACTTTGAGGTGGTTTGTAAAGGTCTC
TATCGGGCTTTGTGTATACGAGAGAAATACATGCAGAAGTCATTCCAGAGGTTCCCCAAGACCCCCTCCA
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TCCGAAGAAGGGAGAAGACCCCTTTCGCAGAGAAGACCTTCCCGCAAACCTGGGCTATCACCTCAAGATG
AAGGGTGGTGTGATTTACATCTACCCTGATGAAGCAGCAGCCAGCAGAGATGAGCCCAAGCCCTACCCTT
ACCCAAATCTGGATGACTTCCTGGATGACATGAATTTTTTGCTTGCTCTAATTGCACAAGGGCCTGTGAA
GACTTACACTCACCGCCGTCTGAAGTTCCTCTCCTCCAAGTTCCAGGTCCATCAGATGCTGAATGAGATG
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ATCAACCCCCAGACTCATCCAGACCTCAGTGTCTTCCTCAAGCATATCACTGGCTTTGACAGTGTGGATG
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CAACCCGTCTTACACATATTATGCCTACTACATGTATGCAAACATCATGGTGCTCAACTGCCTGAGAAAG
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TCCATTTCACCAAGGAGCCCCTGATGGAAGAGTACGCCATCGCAGCCCAGGTCTTCAAGCTGAGCACTTG
TGACATGTGTGAGGTGGCAAGGAACAGTGTCCTGCAGTGTGGAATTTCTCATGAGGAAAAAGCAAAGTTT
CTGGGCAACAATTACCTTGAGGAAGGTCCTGTTGGAAATGACATCCGAAGGACAAATGTGGCTCAGATTC
GCATGGCCTATCGTTATGAAACTTGGTGTTATGAACTCAATTTGATTGCTGAGGGCCTTAAATCAACAGA
A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

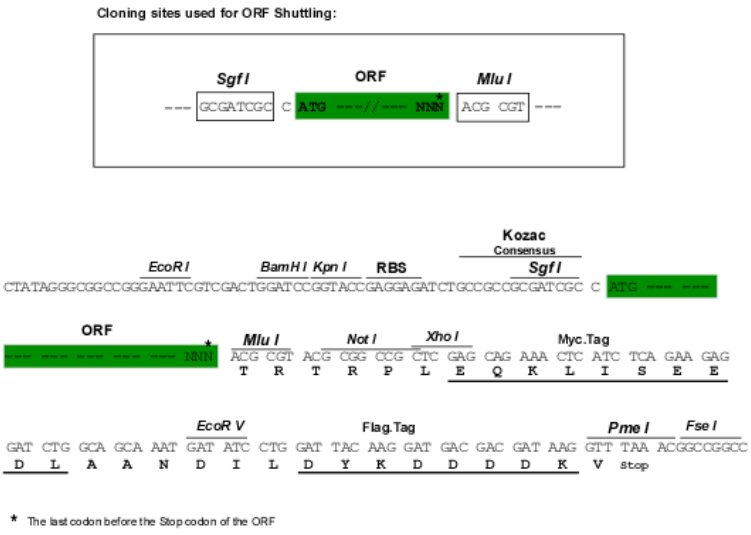
>RR215209 representing NM_138876
Red=Cloning site Green=Tags(s)

MPLFKLTGQGKQIDDAMRSFAEKVFASEVKDEGGRHEISPFDVDEICPISLREMQAHIFHMENLSMSMDG
RRKRRFQGRKTVNLSIPQSETSSTKLSHIEEFISSSPTYESVPDFQRVQITGDYASGVTVEDFEVVCKGL
YRALCIREKYMQKSFQRFPKTPSKYLRNIDGEALVAIESFYPVFTPPPKKGEDPFRREDLPANLGYHLKM
KGGVIYIYPDEAAASRDEPKPYPYPNLDDFLDDMNFLLALIAQGPVKTYTHRRLKFLSSKFQVHQMLNEM
DELKELKNNPHRDFYNCRKVDTHIHAAACMNQKHLLRFIKKSYHIDADRVVYSTKEKNLTLKELFAQLNM
HPYDLTVDSLDVHAGRQTFQRFDKFNDKYNPVGASELRDLYLKTDNYINGEYFATIIKEVGADLVDAKYQ
HAEPRLSIYGRSPDEWSKLSSWFVGNRIYCPNMTWMIQVPRIYDVFRSKNFLPHFGKMLENIFLPVFEAT
INPQTHPDLSVFLKHITGFDSVDDESKHSGHMFSSKSPKPEEWTMENNPSYTYYAYYMYANIMVLNCLRK
ERGMNTFLFRPHCGEAGALTHLMTAFMIADNISHGLNLKKSPVLQYLFFLAQIPIAMSPLSNNSLFLEYA
KNPFLDFLQKGLMISLSTDDPMQFHFTKEPLMEEYAIAAQVFKLSTCDMCEVARNSVLQCGISHEEKAKF
LGNNYLEEGPVGNDIRRTNVAQIRMAYRYETWCYELNLIAEGLKSTE

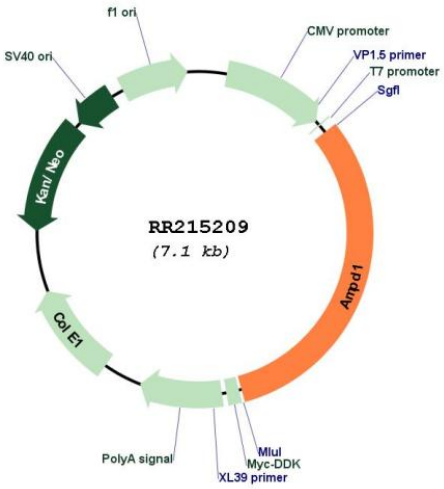
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_138876
ORF Size:	2241 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_138876.1, NP_620231.1
RefSeq Size:	2275 bp
RefSeq ORF:	2244 bp
Locus ID:	25028

UniProt ID:	P10759
Cytogenetics:	2q34
MW:	86.4 kDa
Gene Summary:	catalyzes the conversion of AMP to IMP in energy metabolism [RGD, Feb 2006]