

Product datasheet for **RR215227**

Ampd2 (NM_001101681) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ampd2 (NM_001101681) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ampd2
Synonyms:	Ampd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR215227 representing NM_001101681
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATCTATCTGGCCAGCAAGTCCAAGGCCAAATATCCCTTTAAGAAGCGGCCAGCCTGCAAG
 CTTCGCGTCCGCTCCAGAAGCTCGAAGTGGTCTGGGGGCTCTCCACTGCAAGTCTGCCCGATCCCTGCC
 AGGCACCGCCCTGCCTTAAGCATTTCGCGCTCGACCTTCGCACGTCTATGGATGGCAAATGCAAGGAG
 ATCGCTGAGGAGTTGTTCAAGCCTCACTGGTGAAGTGAAGTCCGTAGCGCCCCTTATGAGTCCCGG
 AGGAAAGCCCATCGAGCAGCTAGAGGAGCGGAGGCGGCTGGAGCGCCAGATCAGCCAGGATGTCAA
 GCTGGAGCCAGATATTCTGCTTCGGGCCAAGCAAGATTTCTGAAGACAGACAGTATTCCGACTTACAG
 CTGTACAAGGAGCAAGGAGAGGGACAGGGGACAGGGTCTTTGGGAACGTGATGTGGTACTGGAACGGG
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 ATGTCAATGTGCTGATGGCCCTGATTATCAATGGTCCCATAAAGTCAATCTGCTACCGCCGGCTTCA
 CCTGAGCTCCAAGTTCAGATGCACGTTTTGCTCAATGAGATGAAGGAGCTGGTCTCAGAAGAAAGTG
 CCACACCGGGACTTCTACAATATCCGTAAGTGGACACACATCCATGCCTCGTCTGCTGAACCAGA
 AGCATCTGCTGCGCTTTCATCAAGCGGGCGATGAAGCGGCATCTGGAGGAGATCGTGCATGTGGAGCAGGG
 CCGAGAGCAGACGCTGCGAGAAGTCTTCGAGAGCATGAACCTCACTGCCTACGACTTAAGTGTGGACAG
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 GGGAGTCTGCTCCGAGAGATCTTCATAAAAACTGACAACAAGATTTCTGGGAAGTACTTTGCTCACAT
 CATCAAGGAGGTGATGTCAGACCTGGAGGAGAGCAAATACCAGAATGCAGAGCTCCGGCTGTCCATCTAC
 GGGCGTTCGAGAGACGAGTGGGACAAGCTGGCCCGCTGGGCGAGTGAACCACAGAGTGCACCTCGCCAAATG
 TCCGCTGGCTGGTGCAGGTGCCCGCTCTTTGATGTATACCGCACCAAGGGCCAGCTGGCCAACTTCCA
 AGAGATGCTGGAGAACATCTTCTGCCACTGTTTGAAGCTACTGTGCACCCTGCCAGCCACCCAGAGCTG
 CACCTCTTCTGGAGCATGTGGATGGTTTTGACAGTGTGGATGATGAGTCTAAGCCAGAGAACCATGTCT
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 TTACACCTTCGCTAACATGGCCATGCTGAACCATCTGCGCAGGCAGAGAGGTTTCCACACGTTTGTGCTG
 AGGCCCCACTGTGGGGAGGCTGGGCCCATCCACCACCTGGTATCAGCCTTCATGTGGCCGAGAACATCT
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 CATGTCCCACTCAGCAACAACAGCCTGTTCTCAGCTACCACCGGAACCCCTCTACCTGAGTACTTGTCC
 CGTGGCCTCATGGTCTCGCTGTCCACGGATGACCCCTTGCACTTCCACTTACCAAGGAGCCCCTGATGG
 AGGAGTACAGCATCGCCACCCAGGTGTGGAAGCTCAGCTCCTGTGATATGTGTGAGCTGGCCGAAACAG
 TGTGCTCATGAGCGCTTCTCTACAAGGTGAAGAGCCACTGGCTGGGACCCAACTATACCAAGGAGGGC
 CCTGAGGGTAACGACATCCGCCGACCAATGTGCCGGACATCCGAGTAGGCTACCGCTACGAGACCCCTGT
 GCCAGGAGCTGGCGTGTATCACACAGGCCGTCCAAAGTGAAGTGTGGAGACCATCCAGAGGAAGTGGG
 CATTGTATGAGCCCTGGGCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215227 representing NM_001101681
Red=Cloning site Green=Tags(s)

MASYPGPGKSKAKYPFKKRASLQASAAPEARSGLGASPLQSARSLPGTAPCLKHFPLDLRTSMDGKCKE
IAEELFSRSLAESELRSAPYEFPEESPIEQLEERRQLERQISQDVKLEPDILLRAKQDFLKTDSDSLQ
LYKEQGEGQDRGLWERDVVLEREFQRVIIISGEEKCGVPFTDLLDAAKSVVRALFIREKYMALSLQSF
TTRRYLQQLAEKPLETRTYEQSPDTPVSADAPVHPPALEQHPYEHCEPSTMPGDLGLGLRMVRGVVHVY
RRDPDEHCPEVELPYPDLQEFVADVNVLMAILIINGPIKSFCYRRLQYLSSKFQMHVLLNEMKELAAQKKV
PHRDFYNIIRKVDTHIHASSCMNQKHLRFIKRAMKRHLEEVHVEQGREQTLREVFESMNLTAIDLSDVT
LDVHADRNTHFRFDKFNAYNPVIGESVLRIFIKTDNKISGKYFAHIIKEVMSDLEESKYQNAELRLSIY
GRSRDEWDKLARWAVNHRVHSPNVRWLQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHPASHPEL
HLFLEHVDGFDSVDESKPENHVFNLESPLPEAWVEEDNPPYAYLYYTFANMAMLNHLRRQRFHTFVL
RPHCGEAGPIHHLVSAFMLAENISHGLLLRKAPVLQYLYLAQIGIAMSPLSNNSLFLSYHRNPLPEYLS
RGLMVSLSTDDPLQFHFKEPLMEEYSIATQVWKLSSCDMCELARNSVLMMSGF SHKVKSHWLGPNYTKEG
PEGNDIRRTNVPDIRVGYRYETLCQELALITQAVQSEMLETIPEEVGIVMSPGP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001101681

ORF Size: 2472 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_001101681.2](#), [NP_001095151.1](#)

RefSeq Size: 3387 bp

RefSeq ORF: 2475 bp

Locus ID: 362015

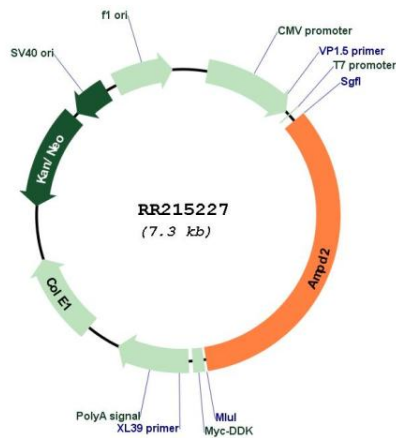
UniProt ID: [Q02356](#)

Cytogenetics: 2q34

MW: 94.8 kDa

Gene Summary: catalyzes the conversion of AMP to IMP [RGD, Feb 2006]

Product images:



Circular map for RR215227