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Product datasheet for MR220907

Ampd1 (NM_001033303) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ampd1 (NM_001033303) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ampd1
Synonyms:	AI553520; Ampd-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR220907 representing NM_001033303
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCTATTCAAACTAACAGGTCAAGGAAAACAAATTGATGATGCAATGCGTAGCTTTGCTGAAAAAG
TGTTTGCCTCTGAAGTCAAAGATGAGGGAGGTCGGCACGAGATCTCCCCCTTCGACGTGGATGAGATCTG
CCCAATTTCCCTTCATGAGATGCAGGCCCACATATTCCACATGGAGAACCTGTCCATGGATGGCAGGAGA
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TGTCCCACATCGAAGAATTTATTTCTTCATCCCCAACCTACGAGAGTGTGCCTGACTTCCAGAGGGTGCA
GATCACTGGAGACTATGCCTCGGGGGTAACCGTTGAAGACTTTGAGGTGGTTTGTAAAGGTCTCTATCGG
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GGTGTGATTTACATCTACCCTGATGAAGCGGCAGCCAACAGAGATGAGCCCAAGCCCTACCCTTACCCAA
ATCTGGATGACTTCCTGGATGACATGAATTTTTTGCTTGCTCTAATTGCACAAGGGCCTGTTAAGACTTA
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CTGAAGGAGCTGAAGAACAACCCCCACCGGGACTTTTATAACTGCAGGAAGGTGGATACTCACATCCATG
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GGTGGTCTACAGCACTAAAGAGAAGAGCCTGACTCTGAAGGAACTTTTCGCTAAGTTGAATATGCATCCC
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CCCCAAGCTCACCCAGACCTCAGTGTCTTCCTCAAGCACATCACTGGCTTTGACAGTGTGGATGATGAAT
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GTCTTATACTTACTATGCCTACTACATGTATGCAAACATCACGGTGCTCAACAGCCTGAGAAAGGAACGA
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TCATGATAGCAGACAATATTTCTCATGGACTGAATTTAAAGAAGAGTCCTGTGCTACAGTACTTGTTTTT
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CCTTTCTTAGATTTCCTCCAGAAAGGCCTGATGATCTCACTGTCGACCGATGACCCGATGCAGTTCCACT
TCACCAAGGAGCCCCTGATGGAAGAATACGCCATCGCTGCGCAAGTCTTCAAGCTGAGCACGTGTGACAT
GTGTGAGGTGGCAAGGAACAGTGTCCTGCAGTGTGGGATTTCTCATGAGGAAAAAGCAAAGTTTCTGGGC
AACAATTACCTTGAGGAAGGCCCTGTTGGAAATGACATCCGGAGGACAAATGTCGCTCAGATTCGCATGG
CCTATCGTTATGAAACTTGGTGTTATGAACTCAATTTAATTGCTGAGGGTCTTAAAGCAACAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220907 representing NM_001033303
Red=Cloning site Green=Tags(s)

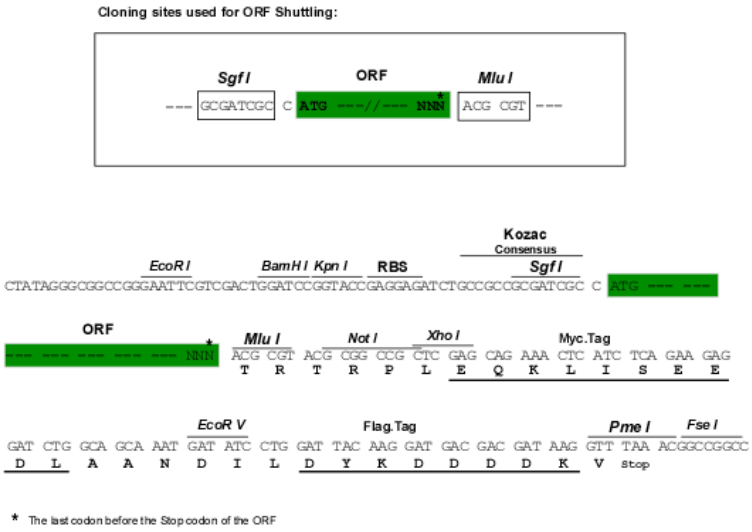
MPLFKLTGQGKQIDDAMRSFAEKVFASEVKDEGGRHEISPFDVDEICPISLHEMQAHIFHMENLSMDGRR
KRRFQGRKTVNLSIPQSETSSTKLSHIEEFISSSPTYESVPDFQRVQITGDYASGVTVEDFEVVCKGLYR
ALCIREKYMQKSFQRFPKTPSKYLRNIDGEALVGNESFYPVFTPPPKKGEDPFRTEDLPANLGYHLKMKA
GVIYIYPDEAAANRDEPKPYPYPNLDDFLDDMNFLLALIAQGPVKTYAHRRLKFLSSKFQVHQMLNEMDE
LKELKNNPHRDFYNCRKVDTHIHAAACMNQKHLLRFIKKSYHIDADRVVYSTKEKSLTLKELFAKLNMHP
YDLTVDSLDVHAGRQTFQRFDKFNDKYNPVGASELRDLYLKTDNYINGEYFATIIKEVGADLVEAKYQHA
EPRLSIYGRSPDEWNKLSSWFVCNRIYCPNMTWMIQVPRIYDVFRSKNFLPHFGKMLENIFLPVFEATIN
PQAHPDLSVFLKHITGFDSVDDESKHSGHMFSSKSPKPEEWTMENNPSYTYYAYYMYANITVLNSLRKER
GMNTFLFRPHCGEAGALTHLMTAFMIADNISHGLNLKKSPVLQYLFFLAQIPIAMSPLSNNSLFLEYAKN
PFLDFLQKGLMISLSTDDPMQFHFTKEPLMEEYAIAAQVFKLSTCDMCEVARNSVLQCGISHEEKAKFLG
NNYLEEGPVGNDIRRTNVAQIRMAYRYETWCYELNLIAEGLKATE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

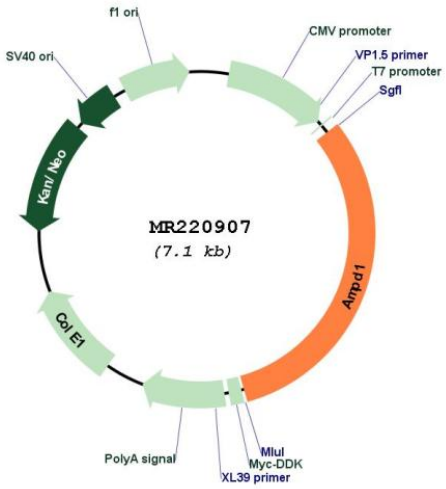
Chromatograms: https://cdn.origene.com/chromatograms/mm9037_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001033303
ORF Size:	2235 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_001033303.2, NP_001028475.2
RefSeq Size:	2342 bp
RefSeq ORF:	2238 bp
Locus ID:	229665
UniProt ID:	Q3V1D3

Cytogenetics:	3 45.25 cM
MW:	86.6 kDa
Gene Summary:	AMP deaminase plays a critical role in energy metabolism.[UniProtKB/Swiss-Prot Function]