

Product datasheet for **MR210717**

Ampd2 (NM_028779) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ampd2 (NM_028779) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ampd2
Synonyms:	1200014F01Rik; AI552571; Ampd-2; m4521Dajl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210717 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCAGAAGCTCGAAGCGTCTGGGGCCTCTCCGCTACAGTCTGCCCGATCCCTGCCAGGCAACG
 CCCTTGCTCAAGCACTTCCCGCTTGACTGCGCACGTCTATGGATGGCAAATGCAAGGAGATCGCTGA
 GGAGTTGTTTCAGCCGCTCACTGGCTGAGAGTGAGCTTCGTAGCGCCCTTATGAGTTCCAGAGGAAAGC
 CCCATCGAGCAGCTAGAAGAACGGAGGCAGCGGCTGGAGCGCCAGATCAGCCAGGATGTCAAGCTGGAGC
 CAGATATTCTTCTCGAGCCAAGCAAGATTTCTGAAGACAGACAGCGACTCAGACTTACAGCTGTACAA
 GGAGCAAGGAGAGGGACAGGGTGACAGGGGTCTTTGGAACTGATGTGGTATTGGAACGGGAATTTGAG
 CGGGTCATCATCTCTGGGAGGAGAAGTGTGGGTGCCATTACAGACCTTTAGACGCAGCCAAAAGTG
 TGGTTCGGGCACTTTTCATCCGGGAGAAGTACATGGCCCTACTGCAGAGCTTCTGTCCACCACCCG
 CCGTTACCTGCAGCAGCTGGCTGAGAAGCCCTGGAGACTCGAATTATGAGCAGAGTCTGATACCCCT
 GTATCTGCTGATGCCCCAGTGCATCCCCCTGCACTGGAGCAGCACCCGTATGAGCACTGTGAGCCAAAGC
 CCATGCCTGGGGACCTGGGCTTGGGTCTGCGCATGGTGGCTGGTGTGGTGACAGTCTACACCCGAGGGA
 CCCTGATGAGCACTGTCCGGAGGTGGAGCTTCCATACCCTGACCTACAGGAATTTGTAGCTGACGTCAAT
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 CTGCGCTTCATCAAGCGGGCCATGAAGCGGCACCTGGAGGAGATTGTGCATGTGGAACAGGGCCCGGAGC
 AGACGCTGAGAGAAGTCTTCGAGAGCATGAACCTCACTGCCTACGACTTAAGTGTGGACAGCTGGATGT
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 CTGGCACTTATCACACAGGCCGTCAAAGTGAGATGCTGGAGACCATCCAGAGGAAGTGGGCATTGTCA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210717 protein sequence
 Red=Cloning site Green=Tags(s)

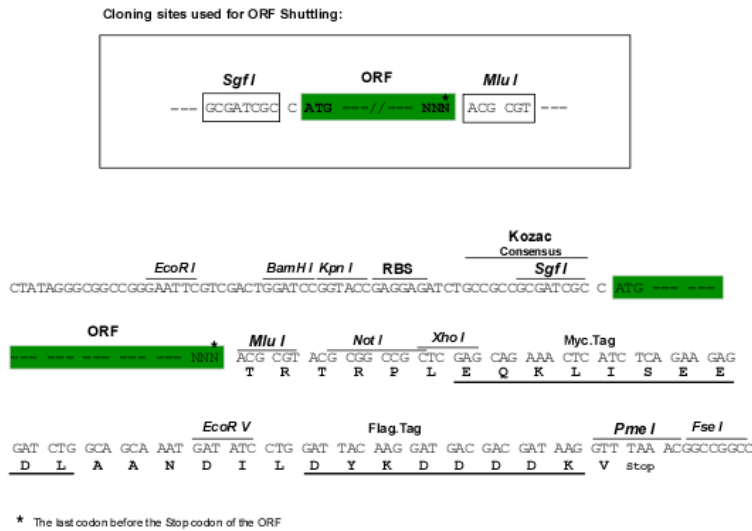
MASEARSGLGASPLQSARSLPGNAPCLKHFPLDLRTSMDGKCKEIAEELFSRSLAESELRSAPYEFPEES
 PIEQLEERRQLERQISQDVKLEPDILLRAKQDFLKTDSDSLQLYKEQGEGQDRGLWERDVVLEREFQ
 RVIISGEEKCGVPFTDLLDAAKSVVRALFIREKYMALSLQSFCTTRRYLQQLAEKPLETRTYEQSPDTP
 VSADAPVHPPALEQHPYEHCEPSAMPGDLGLGLRMVRGVVHVYTRRDPDEHCPEVELPYPDLQEFVADV
 VLMALIINGPIKSFYRRLQYLSSKFQMHVLLNEMKELAAQKKVPHRDFYNIRKVDTHIHASSCMNQKHL
 LRFIKRAMKRHLEEVHVEQGREQTLREVFESMNLTAAYDLSDVTLDVHADRNTHFRFDKFNAYNPIGES
 VLREIFIKTDNKISGKYFAHIIKEVMADLEESKYQNAELRLSIYGRSRDEWDKLARWAVNHKVHSPNVRW
 LVQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHPASHPHLFLEHVDFGDSVDDESKPENHVFNL
 ESPLPEAWVEEDNPPYAYLYYTFANMAMLNHLRRQRFHTFVLRPHCGEAGPIHHLVSAFMLAENISHG
 LLLRKAPVLQYL YLAQIGIAMSPLSNNSLFLSYHRNPLPEYLSRGLMVSLSTDDPLQFHFTKEPLMEEY
 SIATQVWKLSSCDMCELARNSVLMGFSHKVKSHWLGPNTYKEGPEGNDIRRTNVPDIRVGYRYETLCQE
 LALITQAVQSEMLETIPEEVGIVMSPGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_028779

ORF Size: 2397 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_028779.5](#)

RefSeq Size: 3694 bp

RefSeq ORF: 2397 bp

Locus ID: 109674

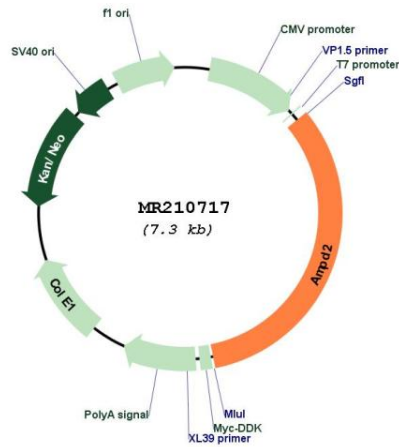
UniProt ID: [Q9DBT5](#)

Cytogenetics: 3 46.83 cM

MW: 92 kDa

Gene Summary: AMP deaminase plays a critical role in energy metabolism. Catalyzes the deamination of AMP to IMP and plays an important role in the purine nucleotide cycle (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210717