

Product datasheet for **MR231165**

Ampd2 (NM_001289719) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ampd2 (NM_001289719) 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:

>MR231165 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCAGAAGCTCGAAGCGTCTGGGGCCTCTCCGCTACAGTCTGCCCGATCCCTGCCAGGCAACG
 CCCTTGCTCAAGCACTTCCCGCTTGACTGCGCACGTCTATGGATGGCAAATGCAAGGAGATCGCTGA
 GGAGTTGTTTCAGCCGCTCACTGGCTGAGAGTGAGCTTCGTAGCGCCCTTATGAGTTCCAGAGGAAAGC
 CCCATCGAGCAGCTAGAAGAACGGAGGCAGCGGCTGGAGCGCCAGATCAGCCAGGATGTCAAGCTGGAGC
 CAGATATTCTTCTCGAGCCAAGCAAGATTTCTGAAGACAGACAGCGACTCAGACTTACAGCTGTACAA
 GGAGCAAGGAGAGGGACAGGGTGACAGGGTCTTTGGAACTGATGTGGTATTGGAACGGGAATTTGAG
 CGGGTCATCATCTCTGGGAGGAGAAGTGTGGGTGCCATTACAGACCTTTAGACGCAGCCAAAAGTG
 TGGTTCGGGCACTTTTCATCCGGGAGAAGTACATGGCCCTACTGTCAGAGCTTCTGTCCACCACCCG
 CCGTTACCTGCAGCAGCTGGCTGAGAAGCCCTGGAGACTCGAATTATGAGCAGAGTCTGATACCCCT
 GTATCTGCTGATGCCCACTGCATCCCCCTGCACTGGAGCAGCACCCGTATGAGCACTGTGAGCCAAGCG
 CCATGCCTGGGGACCTGGGCTTGGGTCTGCGCATGGTGGCTGGTGTGGTGACAGTCTACACCCGAGGGA
 CCCTGATGAGCACTGTCCGGAGGTGGAGCTTCCATACCCTGACCTACAGGAATTTGTAGCTGACGTCAAT
 GTGCTGATGGCCCTGATCATCAATGGTCCCATAAAGTCATTCTGTACCGCCGGCTGCAGTACCTGAGCT
 CCAAATTCAGATGCACGTTTTGCTCAATGAGATGAAGGAGCTCGCTGCTCAGAAGAAAGTCCACACCCG
 GGACTTCTACAATATCCGTAAGGTGGACACACATCCACGCCTCGTCTGCATGAACGAGAAACATCTA
 CTGCGCTTCATCAAGCGGGCCATGAAGCGGCACCTGGAGGAGATTGTGCATGTGGAACAGGGCCCGGAGC
 AGACGCTGAGAGAAGTCTTCGAGAGCATGAACCTCACTGCCTACGACTTAAGTGTGGACAGCTGGATGT
 GCATGCGGACAGGAATACCTTTTCATCGATTTGACAAATCAATGCCAAATACAACCCTATTGGGGAGTCT
 GTTCTCCGAGAGATCTTCAATAAAACCGACAACAAGATTTCTGGGAAGTACTTTGCTCACATCATCAAGG
 AGGTGATGGCAGACTTGGAGGAGAGCAAATACCAGAATGCAGAGCTCCGGCTGTCCATCTACGGGCGTTC
 GAGGGATGAGTGGGACAAGCTGGCAGCTGGGCACTGAACCACAAAGTGCAGTCTCCCAATGTCCGCTGG
 CTGGTGCAGGTGCCCGCCTCTTCGATGTGTACCGCACCAAGGGCCAGCTGGCCAACCTCCAAGAGATGC
 TGGAGAACATCTTTCTGCCCTGTTTGGGCTACTGTGCACCCTGCCAGCCACCCGGAGCTGCACCTCTT
 TCTGGAGCACGTGGATGGTTTTGATAGCGTGGATGATGAGTCCAAGCCAGAGAACCAGTCTTCAACCTG
 GAGAGTCCCTCCAGAAGCTTGGGTGGAGGAGACAACCCTCCCTATGCCTACTACCTGTACTACCT
 TCGCTAACATGGCTATGTTGAACCATCTGCGCAGGCAGAGAGTTTCCACACGTTTCGTGCTGAGGCCGCA
 CTGTGGGGAGGCCGGGCCATCCACCACCTGGTATCAGCCTTCATGCTGGCCGAGAACATCTCCACGGG
 CTGCTCCTGCGCAAGGCCCGCTCCTGCAGTACCTGTATTACCTGGCTCAGATCGGCATCGCCATGTCCC
 CGCTCAGCAACAACAGCCTGTTCCCTCAGTACCACCGAACCCCTCTCCCTGAGTACTTGTCCCGTGGCCT
 CATGGTCTCGTGTCCACAGATGATCCCTTGCAGTTCACCTTACCAAGGAGCCCTGATGGAGGAGTAC
 AGCATCGCACCCAGGTGTGAAGCTCAGCTCCTGCGATATGTGCGAGCTGGCCCGTAACAGCGTGTCTCA
 TGAGTGGCTTCTCTACAAGGTGAAAAGCCACTGGCTGGGACCCAACTATACCAAGGAGGGCCCTGAGGG
 CAATGATATCCGCCGTACCAACGTGCCAGACATCCGAGTGGGCTACCGCTATGAGACGCTATGCCAGGAG
 CTGGCACTTATCACACAGGCCGTCAAAGTGAGATGCTGGAGACCATCCCAGAGGAAGTGGGCATTGTCA
 TGAGCCAGGGCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231165 protein sequence

Red=Cloning site Green=Tags(s)

MASEARSGLGASPLQSARSLPGNAPCLKHFPLDLRTSMDGKCKEIAEELFSRSLAESELRSAPYEFPEES
PIEQLEERRQLERQISQDVKLEPDILLRAKQDFLKTDSDSLQLYKEQGEGQDRGLWERDVVLEREFQ
RVIISGEEKCGVPFTDLLDAKSVVRALFIREKYMALSLQSFCTTRRYLQQLAEKPLETRTYEQSPDTP
VSADAPVHPPALEQHPYEHCEPSAMPGDLGLGLRMVRGVVHVYTRRDPDEHCPEVELPYPDLQEFVADV
VLMALIINGPIKSFYRRLQYLSSKFQMHVLLNEMKELAAQKKVPHRDFYNIRKVDTHIHASSCMNQKHL
LRFIKRAMKRHLEEVHVEQGREQTLREVFESMNLTAAYDLSDVTLDVHADRNTHFRFDKFNAYNPIGES
VLREIFIKTDNKISGKYFAHIIKEVMADLEESKYQNAELRLSIYGRSRDEWDKLRWAVNHKVHSPNVRW
LVQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHPASHPHLLFLEHVDFGDSVDDESKPENHVFNL
ESPLPEAWVEEDNPPYAYLYYTFANMAMLNHLRRQRFHTFVLRPHCGEAGPIHHLVSAFMLAENISHG
LLLKAPVLQYL YLAQIGIAMSPLSNNSLFLSYHRNPLPEYLSRGLMVSLSTDDPLQFHFTKEPLMEEY
SIATQVWKLSSCDMCELARNSVLMGFSHKVKSHWLGPNTYKEGPEGNDIRRTNVPDIRVGYRYETLCQE
LALITQAVQSEMLETIPEEVGIVMSPGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001289719

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_001289719.1](#), [NP_001276648.1](#)

RefSeq Size: 3608 bp

RefSeq ORF: 2397 bp

Locus ID: 109674

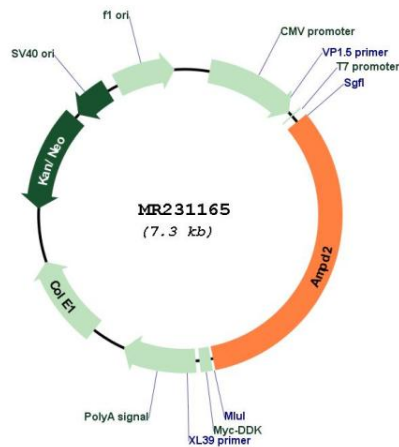
UniProt ID: [Q9DBT5](#)

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 MR231165