

## Product datasheet for **RC221515**

### AMPD2 (NM\_004037) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD2 (NM_004037) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMPD2
Synonyms:	PCH9; SPG63
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC221515 representing NM\_004037  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAAATCGTGCCAGGGCCTTCCGCTGCGGAGCCGCTGCTTCTGCATCAGTCACTCCCGCTGG  
 GGGCGGGCGGAGGAAGGGTTGGATGTGGCAGAGCCAGGCCCCAGCCGGTGCCGCTCAGACTCCCCGC  
 TGTCGCCGCCGTGGTCCCAGCCATGGCATCCTATCCATCTGGCTCTGGCAAGCCCAAGGCCAAATATCCC  
 TTTAAGAAGCGGGCCAGCCTGCAGGCCCTCCACTGCAGCTCCAGAGGCTCGGGGTGGTCTGGGGGCCCTC  
 CGCTGCAGTCTGCCGATCCCTGCCGGGCCGCCCTGCCTCAAGCACTTCCCGCTCGACCTGCGCAC  
 GTCTATGGATGGCAAATGCAAGGAGATCGCCGAGGAGCTGTTACCCGCTCACTGGCTGAGAGCGAGCTC  
 CGTAGTGCCCGTATGAGTTCGCCGAGGAGAGCCCATGAACAGCTGGAGGAGCGGCGGCAGCGGCTGG  
 AGCGGCAGATCAGCCAGGATGTCAAGCTGGAGCCAGACATCCTGCTTCGGGCCAAGCAAGATTTCTGAA  
 GACGGACAGTACTCGGACCTACAGCTCTACAAGGAACAGGGTGAGGGGCAGGGTGACCGGAGCCTGCGG  
 GAGCGTATGTGCTGGAACGGGAGTTTACGCGGTCACCATCTCTGGGGAGGAGAAGTGTGGGTGCCGT  
 TCACAGACCTGCTGGATGCAGCCAAGAGTGTGGTGCAGGCGCTCTTCATCCGGGAGAAGTACATGGCCCT  
 GTCCCTGCAGAGCTTCTGCCACCACCCGCGCTACCTGCAGCAGCTGGCTGAAAAGCCTCTGGAGACC  
 CGGACCTATGAACAGGGCCCCGACACCCCTGTGTCTGCTGATGCCCGGTGCACCCCTGCGCTGGAGC  
 AGCACCCGTATGAGCACTGTGAGCCAAGCACCATGCCTGGGACCTGGGCTTGGGTCTGCGCATGGTGCG  
 GGGTGTGGTGACGTCTACACCCGACGGGAACCCGACGAGCATTGCTCAGAGGTGGAGCTGCCATACCCCT  
 GACCTGCAGGAATTTGTGGCTGACGTCAATGTGCTGATGGCCCTGATTATCAATGGCCCCATAAAGTCAT  
 TCTGCTACCGCCGGCTGCAGTACCTGAGCTCCAAGTCCAGATGCATGTGCTACTCAATGAGATGAAGGA  
 GCTGGCCGCCAGAGAAGAAGTGCCACACCGAGATTTCTACAACATCCGCAAGGTGGACACCCACATCCAT  
 GCCTCGTCTGCATGAACCAGAAGCATCTGCTGCGCTTCAAGCGGGCAATGAAGCGGCACCTGGAGG  
 AGATCGTGACAGTGGAGCAGGGCGTGAACAGACGCTGCGGGAGGTCTTTGAGAGCATGAATCTCACGGC  
 CTACGACCTGAGTGTGGACACGCTGGATGTGCATGCGGACAGGAACACTTCCATCGCTTTGACAAGTTT  
 AATGCCAAATACAACCCTATTGGGGAGTCCGCTCCGAGAGATCTTCAAGACGGACAACAGGGTAT  
 CTGGGAAGTACTTTGCTCACATCATCAAGGAGGTGATGTCAGACCTGGAGGAGAGCAAATACCAGAATGC  
 AGAGCTGCGGCTCTCCATTTACGGGCGCTCGAGGGATGAGTGGGACAAGCTGGCGCGCTGGGCCGTCATG  
 CACCGCTGCACTCCCCAACGTGCGCTGGCTGGTGCAGGTGCCCGCCTTTTGTGTGTACCGTACCA  
 AGGGCCAGCTGGCCAACCTCCAGGAGATGCTGGAGAACATCTTCTGCCACTGTTTCGAGGCCACTGTGCA  
 CCCTGCCAGCCACCCGGAAGTGCATCTTCTTAGAGCACGTGGATGGTTTTGACAGCGTGGATGATGAG  
 TCCAAGCCTGAAAACCATGTCTTCAACCTGGAGAGCCCCCTGCCTGAGGCGTGGGTGGAGGAGGACAACC  
 CACCCTATGCCTACTACCTGTACTACACCTTTGCCAACATGGCCATGTTGAACCCTGCGCAGGCAGAG  
 GGGCTTCCACACGTTTGTGCTGAGGCCACACTGTGGGGAGGCTGGGCCATCCACCACCTGGTGTGAGCC  
 TTCATGCTGGCTGAGAACATTTCCACGGGCTCCTTCTGCGCAAGGCCCGCTCCTGCAGTACCTGTACT  
 ACCTGGCCAGATCGGCATCGCCATGTCTCCGCTCAGCAACAACAGCCTTCTCCTCAGCTATCACGGAA  
 TCCGCTACCGGAGTACCTGTCCCGGGCCTCATGGTCTCCCTGTCCTGATGATCCCTTGCAGTTCAC  
 TTCACCAAGGAGCCGCTGATGGAGGAGTACAGCATCGCCACCCAGGTGTGGAAGCTCAGCTCCTGCGATA  
 TGTGTGAGCTGGCCCGAACAGCGTGTCTATGAGCGGCTTCTCGACAAGGTAAAGAGCCACTGGCTGGG  
 ACCCAACTATACCAAGGAAGGCCCTGAGGGGAATGACATCCGCCGGACCAATGTGCCAGACATCCGCGTG  
 GGCTACCGCTACGAGACCCTGTGCCAGGAGCTGGCGCTCATCACGCAGGCAGTCCAGAGTGAAGTGTGG  
 AGACCATCCAGAGGAGGCGGTATCACCATGAGCCAGGCCTCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221515 representing NM\_004037  
Red=Cloning site Green=Tags(s)

MRNRGQGLFRLRSRFLHQSLPLGAGRRKGLDVAEPGPSRCRSDSPAVAAVVPAMASYPSSGSGKPKAKYP  
 FKKRASLQASTAAPEARGLGAPPLQSARSLPGPAPCLKHFPLDLRTSMDGKCKEIAEELFTRSLAESEL  
 RSAPYEFPEESPIEQLEERRQRLERQISQDVKLEPDILLRAKQDFLKTSDSDLQLYKEQGEQGDRSLR  
 ERDVLEREFQRVTISGEEKCGVPFDTLLDAAKSVVRAFIREKYMALSLQSFCTTTRRYLQQLAEKPLET  
 RTYEQGPDTPVSDAPVHPPALEQHPYEHCEPSTMPGDLGLGLRMVGVVHVYTRREPEHCSEVELPYP  
 DLQEFVADVNVLMALIINGPIKSFYRRLQYLSSKFQMHVLLNEMKELAAQKQVPHRDFYNIRKVDTHIH  
 ASSCMNQKHLRFIKRAMKRHLEEIVHVEQGREQTLREVFESMNL TAYDLSVDTLDVHADRNTHFRFDKF  
 NAKYNPIGESVLRIFIKTDNRVSGKYFAHIIKEVMSDLEESKYQNAELRLSIYGRSRDEWDKLARWAVM  
 HRVHSPNVRWLQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHPASHPHLLFLEHVDGFSDVDE  
 SKPENHVFNLESPLPEAWVEEDNPPYAYLYYTFANMAMNLHRRQGFHTFVLRPHCGEAGPIHHLVSA  
 FMLAENISHGLLLKAPVLQYLYYLAQIGIAMSPLSNNSLFLSYHRNPLPEYLSRGLMVSSTDDPLQFH  
 FTKEPLMEEYSIATQVWKLSSCDMCELARNSVLSMGFSHKVKSHWLGPNYTKEGPEGNDIRRTNVPDIRV  
 GRYETLCQELALITQAVQSEMLETIPEEAGITMSPGPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

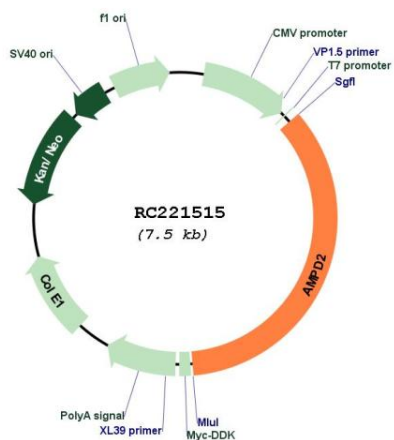
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_004037
<b>ORF Size:</b>	2637 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004037.7</a> , <a href="#">NP_004028.3</a>
<b>RefSeq Size:</b>	4005 bp
<b>RefSeq ORF:</b>	2478 bp
<b>Locus ID:</b>	271
<b>UniProt ID:</b>	<a href="#">Q01433</a>
<b>Cytogenetics:</b>	1p13.3
<b>Domains:</b>	A_deaminase
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Purine metabolism
<b>MW:</b>	100.7 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is important in purine metabolism by converting AMP to IMP. The encoded protein, which acts as a homotetramer, is one of three AMP deaminases found in mammals. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

Product images:



Circular map for RC221515