

Product datasheet for **RG234989**

AMPD2 (NM_001257360) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD2 (NM_001257360) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMPD2
Synonyms:	PCH9; SPG63
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234989 representing NM_001257360
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAAATCGTGCCAGGGCCTTCCGCTGCGGAGCCGCTGCTTCTGCATCAGTCACTCCCGCTGG
 GGGCGGGCGGAGGAAGGGTTGGATGTGGCAGAGCCAGGCCAGCCGCGTCCGCTCAGACTCCCCGC
 TGTCGCCGCGTGGTCCCAGCCATGGCATCCTATCCATCTGGCTCTGGCAAGCCCAAGGCCAAATATCCC
 TTTAAGAAGCGGGCCAGCCTGCAGGCCCTCCACTGCAGCTCCAGAGGCTCGGGTGGTCTGGGGGCCCTC
 CGCTGCAGTCTGCCGATCCCTGCCGGGCCGCCCTGCCTCAAGCACTTCCGCTCGACCTGCGCAC
 GTCTATGGATGGCAAATGCAAGGAGATCGCCGAGGAGCTGTTACCCGCTCACTGGCTGAGAGCGAGCTC
 CGTAGTCCCCGTATGAGTTCGCCGAGGAGAGCCCCATTGAACAGCTGGAGGAGCGGCGGACGGCTGG
 AGCGGCAGATCAGCCAGGATGTCAAGCTGGAGCCAGACATCCTGCTTCGGGCCAAGCAAGATTTCTGAA
 GACGGACAGTACTCGGACCTACAGCTCTACAAGGAACAGGGTGAGGGGAGGGTGACCGGAGCCTGCGG
 GAGCGTATGTGCTGGAACGGGAGTTTACAGCGGTCAACATCTCTGGGGAGGAGAAGTGTGGGTGCCGT
 TCACAGACCTGCTGGATGCAGCCAAGAGTGTGGTGCAGGCGCTCTTCATCCGGGAGAAGTACATGGCCCT
 GTCCCTGCAGAGCTTCTGCCCCACCCCGCCGCTACCTGCAGCAGCTGGCTGAAAAGCCTCTGGAGACC
 CGGACCTATGAACAGGGCCCCGACACCCCTGTGTCTGCTGATGCCCGGTGCACCCCTGCGCTGGAGC
 AGCACCCGTATGAGCACTGTGAGCCAAGCACCATGCCTGGGGACCTGGGCTTGGGTCTGCGCATGGTGCG
 GGGTGTGGTGACGTCTACACCCGAGGAAACCCGACGAGCATTGCTCAGAGGTGGAGCTGCCATACCCCT
 GACCTGCAGGAATTTGTGGCTGACGTCAATGTGCTGATGGCCCTGATTATCAATGGCCCCATAAAGTCAT
 TCTGCTACCGCCGGCTGCAGTACCTGAGCTCCAAGTCCAGATGCATGTGCTACTCAATGAGATGAAGGA
 GCTGGCCGCCAGAGAAGTGCCACACCGAGATTTCTACAACATCCGCAAGGTGGACACCCACATCCAT
 GCCTCGTCTGCATGAACCAGAAGCATCTGCTGCGCTTCAAGCGGGCAATGAAGCGGCACCTGGAGG
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 AATGCCAAATACAACCTATTGGGGAGTCCGCTCCGAGAGATCTTCAAGACGGACAACAGGGTAT
 CTGGGAAGTACTTTGCTCACATCATCAAGGAGGTGATGTCAGACCTGGAGGAGAGCAAATACCAGAAATGC
 AGAGCTGCGGCTCTCCATTTACGGGCGCTCGAGGGATGAGTGGGACAAGCTGGCGCGCTGGGCCGTCATG
 CACCGCTGCACTCCCCAACGTGCGCTGGCTGGTGCAGGTGCCCGCCTTTTGTGTGTACCGTACCA
 AGGGCCAGCTGGCCAACCTCCAGGAGATGCTGGAGAACATCTTCTGCCACTGTTTCGAGGCCACTGTGCA
 CCCTGCCAGCCACCCGGAAGTGCATCTTCTTAGAGCACGTGGATGGTTTTGACAGCGTGGATGATGAG
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 GGGCTTCCACACGTTTGTGCTGAGGCCACACTGTGGGGAGGCTGGGCCATCCACCACCTGGTGTGAGCC
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 TCCGCTACCGGAGTACCTGTCCCGGGCTCATGGTCTCCCTGTCCACTGATGATCCCTTGCAGTTCAC
 TTCACCAAGGAGCCGCTGATGGAGGAGTACAGCATCGCCACCCAGGTGTGGAAGCTCAGTCTCGGATA
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 GGCTACCGCTACGAGACCCTGTGCCAGGAGCTGGCGCTCATCACGCAGGCAGTCCAGAGTGAAGTGTGG
 AGACCATCCAGAGGAGGCGGTATCACCATGAGCCAGGCCTCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG234989 representing NM_001257360
Red=Cloning site Green=Tags(s)

MRNRGQGLFRLRSRCFLHQSLPLGAGRRKGLDVAEPGPSRCRSDSPA VAAVVPAMASYPSGSGKPKAKYP
 FKKRASLQASTAAPEARGLGAPPLQSARSLPGPAPCLKHFPLDLRTSMDGKCKEIAEELFTRSLAESEL
 RSAPYEFPEESPIEQLEERRQRLERQISQDVKLEPDILLRAKQDFLKTDSDSDLQLYKEQGEGQGRSLR
 ERDVLEREFQRVTISGEEKCGVPFTDLLDAAKSVVRALFIREKYMALSLQSFCTTRRYLQQLAEKPLET
 RTYEQGPDTPVSADAPVHPPALEQHPYEHCEPSTMPGDLGLGLRMVGVVHVYTRREPDEHCSEVELPYP
 DLQEFVADVNVLMALIINGPIKSFYRRLQYLSKFQMHVLLNEMKELAAQKQVPHRDFYNIRKVDTHIH
 ASSCMNQKHLRLFIKRAMKRHLEEVHVEQGREQTLREVFESMNL TAYDLSVDTLDVHADRNTHFRFDKF
 NAKYNPIGESVLRIFIKTDNRVSGKYFAHIIKEVMSDLEESKYQNAELRLSIYGRSRDEWDKLARWAVM
 HRVHSPNVRWLQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHPASHPHLHLEHVDFGSDVDE
 SKPENHVFNLESPLPEAWVEEDNPPYAYLYYTFANMAMLNHLRRQGFHTFVLRPHCGEAGPIHHLVSA
 FMLAENISHGLLLKAPVLQYL YLLAQIGIAMSPLSNNSLFLSYHRNPLPEYLSRGLMVS LSTDDPLQFH
 FTKEPLMEEYSIATQVWKLSSCDMCELARNSVLSMGFSHKVKSHWLGPNYTKEGPEGNDIRRTNVPDIRV
 GRYETLCQELALITQAVQSEMLETIPEEAGITMSPGPQ

TRTRPLE - GFP Tag - V

Restriction Sites:

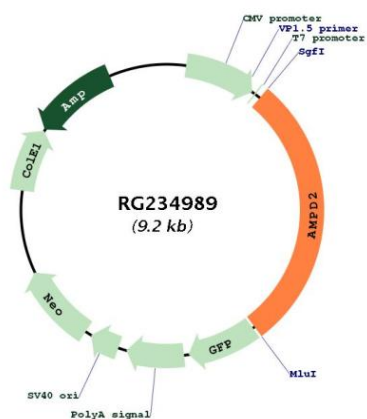
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001257360
ORF Size:	2637 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:	<ol style="list-style-type: none">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_001257360.1 , NP_001244289.1
RefSeq Size:	4138 bp
RefSeq ORF:	2640 bp
Locus ID:	271
UniProt ID:	Q01433
Cytogenetics:	1p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
Gene Summary:	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 RG234989