

Product datasheet for **RR205956**

Amdhd2 (NM_001024990) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Amdhd2 (NM_001024990) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Amdhd2
Synonyms: RGD1304601
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205956 representing NM_001024990
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGTAGCGGGCAGTCCGCAGCGTTGGCTCCCGTGCTCCAGTTCACCAACTGCCGCATCCTGCGCGGG
GCACGCTGCTCAGGGAGGATCTGTGGTGCAGCGGGGCCGAATCCTGGACCCAGAGAAGCTGTTTTTTGA
GGAGAGCGGTGTGGCTGATGAGCAGCGGGACTGCGGAGGCCGCATCCTGGCGCCGGGCTTTATCGATGTG
CAGATCAACGGTGGATTTGGTGTGACTTCTCCAGGGCCACGGAGGACGTGGGTTCCGGGGTCCGCCCTAG
TGGCCCGAGGGCTCCTGTCCCACGGTGTCACCTCCTTCTGTCCCACCCTGGTGACCTCCCCACCAGAGGT
TTATCACAAAGTCTTCCCTCAGATCCCTGTGAAGAGTGGAGGTCCCCATGGGGCAGGGGTCTCGGGGTG
CACTTGGAAGGCCCGTTCATCAGCCGGGAAAAGCGGGGTGCACACCCTGAGGCCTACCTCCGCTCCTTTG
GAGCCAATGCTTTTCATGACGTGTTGGCCACGTACGGTCCCCTGGACAACGTCTGCATTGTGACACTTGC
CCCTGAAGTACCGGAGCCATGAGGTGATCCAGGCACTGACAGCCAAAGGCATCCGTGTATCTCTGGGG
CACTCGGTGGCTGACCTGCGGGCTGCAGAAGTAGCAGTGCAGAGTGGGGCCACCTTCATCACTCACTCT
TCAACGCCATGTTGCCTTTCCACCACCGTGACCCAGGCATAGTAGGGCTTCTGACCAGTACCAGCTGCC
CCCAGGCCACTGTATCTTCTATGGGATGATTGCCGATGGCATAACACTAACCCCTGCAGCCCTGCGCATT
GCTCACCGGGCCCATCCCCAGGGGCTGGTGTGCTGACTGATGCTGTCCCTGCCCTGGGCTTGGGAATG
GCCGCCACACGCTGGGACAGCAAGAGGTGGAGGTAGATGGGCTCATAGCCTACATTGCAGGCACCAAGAC
GCTAAGTGGCAGCATAGCCCCGATGGATGTTTGCATCCGGCATTTCCTGCAGGCTACAGGCTGTAGTGTG
GAGTCGGCTCTGGAAGCTGCATCCCTCCACCCCGCCAGCTGCTGGGGCTGGAGAAGACCAAGGGGAGTC
TGGACTTTGGTGTGATGCAGACTTTGTGGTGTGCTCGACGACACTCCTCATGTCCAGGCCACTTACATCTC
TGGTGAAGTGGTGTGGCAGGCAGAGGAAGCTGGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR205956 representing NM_001024990
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MRSQSAALAPVLQFTNCRILRGGTLLREDLWVRGGRILDPEKLFFERRVADEQRDCGGRILAPGFIDV
 QINGGFGVDFSRATEDVGSVALVARRLLSHGVT SFCPTLVTSPPEVYHKVLPQIPVKSGGPHGAGVLGV
 HLEGPFISREKGAHPEAYLR SFGANAFHDVLTATYGPLDNVCIVTLAPELDRSHEVIQAL TAKGIRVSLG
 HSVADLRAAEVAVQSGATFITHLFNAML PFHHRDPGIVGLLTS DQLPPGHCIFYGMIADGIHTNPAALRI
 AHRHPQGLVLVTDVAVPALGLNGRHTL GQQEVEVDGLIAYIAGTKT LSGSIAPMDCIRHFLQATGCSV
 ESALEAASLHPAQLLGLEKTKGSLDFGADADFVVLDDTLHVQATYISGELVWQAEAEAGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

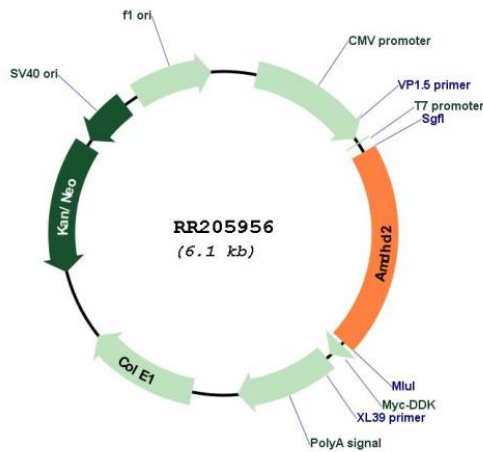
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024990

ORF Size:	1227 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_001024990.2 , NP_001020161.2
RefSeq Size:	1497 bp
RefSeq ORF:	1230 bp
Locus ID:	302972
UniProt ID:	Q5BJY6
Cytogenetics:	10q12
MW:	43.5 kDa
Gene Summary:	Hydrolyzes the N-glycolyl group from N-glycolylglucosamine 6-phosphate (GlcNGc-6-P) in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway.[UniProtKB/Swiss-Prot Function]