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Product datasheet for RC205838

AMDHD2 (NM_015944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMDHD2 (NM_015944) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMDHD2
Synonyms:	CGI-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205838 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCGGCGAGCAGGGCGCGGCGGGGGCCCGCGTGCTCCAGTTCACTAACTGCCGGATCCTGCGCGGAG
GGAAACTGCTCAGGGAGGATCTGTGGGTGCGCGGAGGCCGCATCTTGGACCCAGAGAAGCTGTTCTTTGA
GGAGCGGCGCGTGGCCGACGAGCGGCGGGACTGCGGGGGCCGCATCTTGGCTCCCGGATTCATCGACGTG
CAGATCAACGGTGGATTTGGTGTTGACTTCTCTCAAGCCACGGAGGACGTGGGTTCGGGGGTTGCCCTCG
TGGCCCGGAGGATCCTGTCGCACGGCGTCACCTCCTTCTGCCCCACCCTGGTCACTTCCCCACCGGAGGT
TTATCACAAGGTTGTTCCTCAGATCCCTGTGAAGAGTGGTGGTCCCCATGGGGCAGGGGTCCTCGGGCTG
CACCTGGAGGGCCCCTTCATCAGCCGGGAGAAGCGGGGCGCGCACCCCGAGGCCCACCTCCGCTCCTTCG
AGGCCGATGCCTTCCAGGACTTGCTGGCCACCTACGGGCCCCTGGACAATGTCCGCATCGTGACGCTGGC
CCCAGAGTTGGGCCGTAGCCACGAAGTGATCCGGGCGCTGACGGCCCGTGGCATCTGCGTGTCCCTAGGG
CACTCAGTGGCTGACCTGCGGGCGGCAGAGGATGCTGTGTGGAGCGGAGCCACCTTCATCACCCACCTCT
TCAACGCCATGCTGCCTTTCCACCACCGCGACCCAGGCATCGTGGGGCTCCTGACCAGCGACCGGCTGCC
CGCAGGCCGCTGCATCTTCTATGGGATGATTGCAGATGGCACGCACACCAACCCCGCCGCCCTGCGGATC
GCCCACCGTGCCCATCCCCAGGGGCTGGTGCTGGTCACCGATGCCATCCCTGCCTTGGGCCTGGGCAACG
GCCGGCACACGCTGGGACAGCAGGAAGTGGAAGTGGACGGTCTGACGGCCTACGTGGCAGGTGAGCGCCC
TGACCCACTGGGTCCCAGGTCCCAGCCCGCATGCCAGGTGGCCCACGACCCCCCCAGAGCCTGCCCTCTC
TGCTCTCAAGGCACCAAGACGCTGAGTGGCAGCATAGCCCCAATGGACGTCTGTGTCCGGCACTTCCTGC
AGGCCACAGGCTGCAGCATGGAGTCGGCCCTGGAGGCTGCATCCCTGCACCCCGCCCAGTTGCTGGGGCT
GGAGAAGAGTAAGGGGACCCTGGACTTTGGTGCTGACGCAGACTTCGTGGTGCTCGACGACTCCCTTCAC
GTCCAGGCCACCTACATCTCGGGTGAGCTGGTGTGGCAGGCGGACGCAGCTAGGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205838 protein sequence
Red=Cloning site Green=Tags(s)

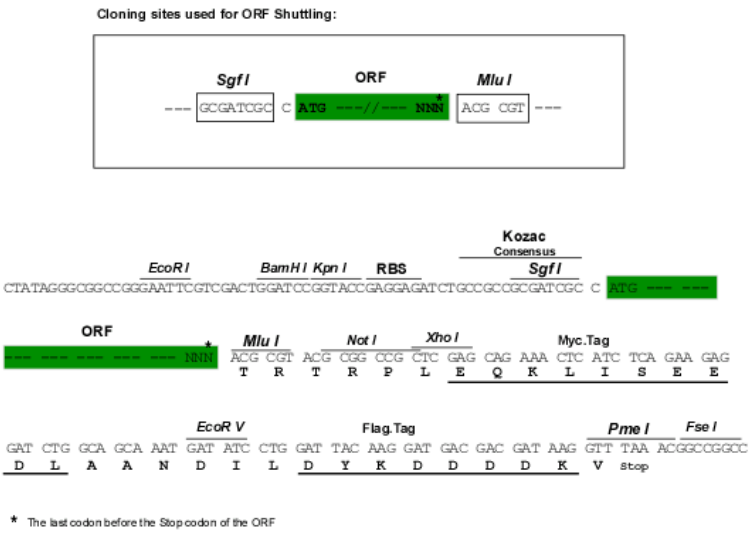
MRGEQGAAGARVLQFTNCRILRGGKLLREDLWVRGGRILDPEKLFFEERRVADERRDCGGRILAPGFIDV
QINGGFGVDFSQATEDVGSGVALVARRILSHGVTSFCPTLVTSPPEVYHKVVPQIPVKSGGPHGAGVLGL
HLEGPFISREKRGAHPEAHLRSFEADAFQDLLATYGPLDNVRIVTLAPELGRSHEVIRALTARGICVSLG
HSVADLRAAEDAVWSGATFITHLFNAMLPFHHRDPGIVGLLTSDRLPAGRCIFYGMIADGTHTNPAALRI
AHRAHPQGLVLVTDAIPALGLGNGRHTLGQQEVEVDGLTAYVAGERPDPLGPRSQPACQVAHDPPRACPL
CSQGTKTLSGSIAPMDVCVRHFLQATGCSMESALEAASLHPAQLLGLEKSKGTLDFGADADFVVLDDSLH
VQATYISGELVWQADAARQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6433_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015944

ORF Size: 1317 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_015944.4

RefSeq Size: 1604 bp

RefSeq ORF: 1320 bp

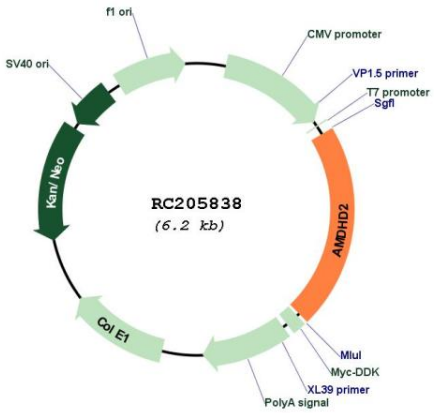
Locus ID: 51005

UniProt ID: Q9Y303

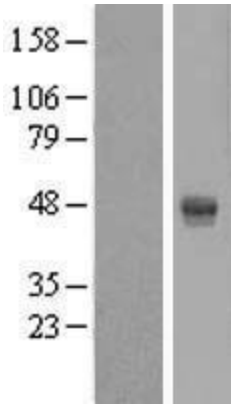
Cytogenetics: 16p13.3

Domains:	Amidohydro_1
Protein Pathways:	Amino sugar and nucleotide sugar metabolism
MW:	46.9 kDa
Gene Summary:	Hydrolyzes the N-glycolyl group from N-glycolylglucosamine 6-phosphate (GlcNGc-6-P) in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway. Although human is not able to catalyze formation of Neu5Gc due to the inactive CMAHP enzyme, Neu5Gc is present in food and must be degraded.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205838



Western blot validation of overexpression lysate (Cat# [LY414297]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205838 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).