

## Product datasheet for **RC227645**

### AMDHD2 (NM\_001145815) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMDHD2 (NM_001145815) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC227645 representing NM\_001145815  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGCGCGAGCAGGGCGGGCGGGGCCCGTCTCCAGTCACTAACTGCCGATCCTGCGCGGAG  
 GGAAACTGCTCAGGGAGGATCTGTGGTGCGCGGAGGCCGATCTTGACCCAGAGAAGCTTCTTTGA  
 GGAGCGCGCGTGGCCGACGAGCGGGGACTGCGGGGGCCGATCTTGCTCCCGGATTCATCGACGTG  
 CAGATCAACGGTGGATTTGGTGTGACTTCTCTCAAGCCACGGAGGACGTGGGTTGCGGGGTTGCCCTCG  
 TGGCCCGGAGGATCCTGTCGACGGCGTCACTCCTTCTGCCACCCTGGTCACTTCCCCACGGAGGT  
 TTATCACAAGGTTGTTCCCTCAGATCCCTGTGAAGAGTGGTGGTCCCATGGGGCAGGGGCTCTCGGGCTG  
 CACCTGGAGGGCCCTTCATCAGCCGGGAGAAGCGGGGCGCACCCCGAGGCCACCTCCGCTCCTTCG  
 AGGCCGATGCCTCCAGGACTTGTGGCCACCTACGGGCCCTGGACAATGTCCGCATCGTGACGCTGGC  
 CCCAGAGTTGGGCGTAGCCACGAAGTATCCGGGCGCTGACGGCCCGTGGCATCTGCGTGTCCCTAGGG  
 CACTCAGTGGCTGACCTGCGGGCGCAGAGGATGCTGTGTGGAGCGGAGCCACCTTCATACCCACCTCT  
 TCAACGCCATGCTGCCTTCCACCACCGCAGCCAGGCATCGTGGGGCTCCTGACCAGCGACCGGCTGCC  
 CGCAGGGCCGTCATCTTCTATGGGATGATTGCAGATGGCACGCACCAACCCCGCCGCTGCGGATC  
 GCCACCGTGGCCATCCCAGGGGCTGGTGTGGTCCCGATGCCATCCCTGCCTTGGGCTGGGCAACG  
 GCCGGCACACGCTGGGACAGCAGGAAGTGAAGTGGACGGTCTGACGGCTACGTGGCAGGTGAGCGCCC  
 TGACCCACTGGTCCCAGGTCACGCCCCGATGCCAGTGGCCACGACCCCGCAGAGCCTGCCCTCTC  
 TGCTCTCAAGGCACCAAGACGCTGAGTGGCAGCATAGCCCAATGGACGCTGTGTCCGGCACTTCTGTC  
 AGGCCACAGGCTGCAGCATGGAGTCGGCCCTGGAGGCTGCATCCCTGCACCCCGCCAGTGTCTGGGGT  
 GGAGAAGAGTAAGGGGACCTGGACTTTGGTGTGACGCAGACTTCGTGGTGTGACGACTCCCTTCAC  
 GTCCAGGCCACCTACATCTCGGGCCAGTGTTCGGGCTGTGGTACCCTGCCTGGTGTGGAGGGCAG  
 TATGGGAGGCACCAAGTGTGCCCTGCTACCCCATAGTGTATCCTGCCATCTTCTGTGTCCCTTGGCC  
 CTGGCACACCCATGTGGCAAACACGGCCGTGAGGCTCCCTGAACAGCTTCGAGGGCGGTGGGCTTCT  
 GGAGCCCTCTGGCTCTGAGGACAGCCACAGTGGGGTCAAGCTCAGGGATTGGTGCAGCCACGTCAG  
 GGGTGATTGTCTTACTTCTCCATTTGAGTCTGGGGTGGTGGCTCCCTTCCCTTGTCTTACAGG  
 TGCTGTCTGGGACAGGAGTACGCGCCTGGCTTCCACTGTTCTTCCCTCTGCTGCAAAGCCAG  
 TTAAGGAAATGTCTCCAGGTCCAAGAGATAGGATGGTCTGGGCCACCTGTTGAAGGGAACAGCCAG  
 GGAAGAACCACCTGCCTGGGCAGGGCCTCGCC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC227645 representing NM\_001145815  
 Red=Cloning site Green=Tags(s)

MRGEQGAAGARVLQFTNCRILRGGKLLREDLWVRGGRILDPEKLFFEERRVADERRDCGGRILAPGFIDV  
 QINGGFGVDFSQATEDVGSVALVARRILSHGVT SFCPTLVTSPEVYHKVVPQIPVKSGGPHGAGVLGL  
 HLEGPFISREKRGAPHAHLRSFEADAFQDLLATYGPLDNVRIVLAPELGRSHEVIRAL TARGICVSLG  
 HSVADLRAAEDAVWSGATFITHLFNAMLPHHRDPGIVGLLTSDRLPAGRCIFYGMIADGTHTNPAALRI  
 AHRAHPQGLVLTDAIPALGLGNRHTLGQQEVEVDGLTAYVAGERPDPLGPRSQPACQVAHDPPRACPL  
 CSQGTKLSGSIAPMDVCRHFLQATGCSMESALEAASLHPAQLLGLKESKGLDFGADADFVVLDDSLH  
 VQATYISGPVLACGDPWCWRAVWEAPVCPAHPISVILPSSVSPWPWHTPMWQTRAVRLEQLRGGWAS  
 GALLALRTATVGSVDVRDWCSPSTSGVIVLTFSPFEFWGGWLPSPLLTGAVLGTGGTRLALPLFSSLCKKAQ  
 LRKCLQVQRDRMVWAPPVGREQPKNHLPQGLA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8068\\_h08.zip](https://cdn.origene.com/chromatograms/mk8068_h08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001145815

ORF Size: 1782 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\\_001145815.2](#)

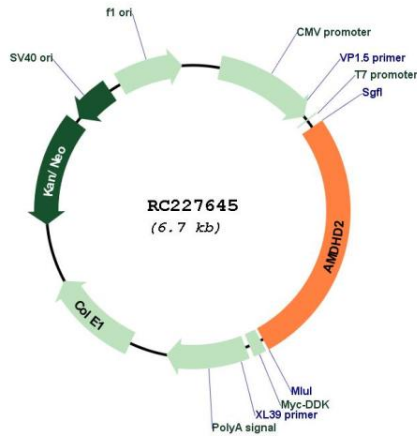
RefSeq ORF: 1785 bp

Locus ID: 51005

UniProt ID: [Q9Y303](#)

**Cytogenetics:** 16p13.3  
**Protein Pathways:** Amino sugar and nucleotide sugar metabolism  
**MW:** 63.4 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 RC227645