

Product datasheet for **RG227645**

AMDHD2 (NM_001145815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMDHD2 (NM_001145815) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMDHD2
Synonyms:	CGI-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG227645 representing NM_001145815
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGCGCGAGCAGGGCGGGCGGGGCCCGTCTCCAGTCACTAACTGCCGATCCTGCGCGGAG
 GGAAACTGCTCAGGGAGGATCTGTGGTGCGCGGAGGCCGCATCTTGACCCAGAGAAGCTTCTTTGA
 GGAGCGCGCGTGGCCGACGAGCGGGGACTGCGGGGGCCGCATCTTGCTCCCGATTATCGACGTG
 CAGATCAACGGTGGATTTGGTGTGACTTCTCTCAAGCCACGGAGGACGTGGGTTGCGGGGTTGCCCTCG
 TGGCCCGGAGGATCCTGTCGCACGGCGTCACTCCTTCTGCCACCCTGGTCACTTCCCCACGGAGGT
 TTATCACAAGGTTGTTCCCTCAGATCCCTGTGAAGAGTGGTGGTCCCCATGGGGCAGGGGCTCTCGGGCTG
 CACCTGGAGGGCCCTTATCAGCCGGGAGAAGCGGGGCGCACCCGAGGCCACCTCCGCTCCTTCG
 AGGCCGATGCCTCCAGGACTTGTGGCCACCTACGGGCCCTGGACAATGTCCGCATCGTGACGCTGGC
 CCCAGAGTTGGGCGTAGCCACGAAGTATCCGGGCGCTGACGGCCCGTGGCATCTGCGTGTCCCTAGGG
 CACTCAGTGGCTGACCTGCGGGCGCAGAGGATGCTGTGTGGAGCGGAGCCACCTTCATACCCACCTCT
 TCAACGCCATGCTGCCTTCCACCACCGCAGCCAGGCATCGTGGGGCTCCTGACCAGCGACCGGCTGCC
 CGCAGGCCGCTGCATCTTCTATGGGATGATTGCAGATGGCACGCACCAACCCCGCCGCTGCGGATC
 GCCACCGTGCCATCCCAGGGGCTGGTGTGGTCAACGATGCCATCCCTGCCTTGGGCTGGGCAACG
 GCCGGCACACGCTGGGACAGCAGGAAGTGAAGTGGACGGTCTGACGGCTACGTGGCAGGTGAGCGCCC
 TGACCCACTGGTCCCAGGTCCCAGCCCGCATGCCAGTGGCCACGACCCCGCAGAGCCTGCCCTCTC
 TGCTCTCAAGGCACCAAGACGCTGAGTGGCAGCATAGCCCAATGGACGCTGTGTCCGGCACTTCTGC
 AGGCCACAGGCTGCAGCATGGAGTCGGGCTGGAGGCTGCATCCCTGCACCCCGCCAGTTGCTGGGGT
 GGAGAAGAGTAAGGGGACCTGGACTTTGGTGTGACGCAGACTTCGTGGTGTGCGACACTCCCTTCAC
 GTCCAGGCCACCTACATCTCGGGCCAGTGTTCGGGCTGTGGTACCCTGCCTGGTGTGGAGGCGAG
 TATGGGAGGCACCAAGTGTGCCCTGCTACCCCATAGTGTATCCTGCCATCTTCTGTGTCCCTTGGCC
 CTGGCACACCCATGTGGCAAACACGGGCCGTGAGGCTCCCTGAACAGCTTCGAGGCGGGTGGGCTTCT
 GGAGCCCTCTGGCTCTGAGGACAGCCACAGTGGGGTCAACGCTCAGGGATTGGTGCAGCCACGTCAG
 GGGTGATTGTCTTACTTCTCCATTTGAGTCTGGGGTGGTGGCTCCCTTCCCTTGTCTTACAGG
 TGCTGTCTGGGACAGGAGGTACGCGCCTGGCTTCCACTGTTCTTCCCTCTGCTGCAAAGCCAG
 TTAAGGAAATGTCTCCAGGTCCAAGAGATAGGATGGTCTGGGCCACCTGTTGAAGGGAACAGCCAG
 GGAAGAACCACCTGCCTGGGCAGGCCTCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227645 representing NM_001145815
 Red=Cloning site Green=Tags(s)

MRGEQGAAGARVLQFTNCRILRGGKLLREDLWVRGGRILDPEKLFFEERRVADERRDCGGRILAPGFIDV
 QINGGFGVDFSQATEDVGSVALVARRILSHGVTSCPTLVTSPPPEVYHKVVPQIPVKSGGPHGAGVGLGL
 HLEGPFISREKRGAPHAHLRSFEADAFQDLLATYGPLDNVRIVTLAPELLGRSHEVIRAL TARGICVSLG
 HSVADLRAAEDAVWSGATFIHLFNAMLPFHHRDPGIVGLLTSRDL PAGRCIFYGMIADGTHTNPAALRI
 AHRAHPQGLVLTDAIPALGLNGRHTLQQEVEVDGL TAYVAGERPDPLGPRSQPACQVAHDPPRACPL
 CSQGTKLSGSIAPMDVCRHFLQATGCSMESALEAASLHPAQLLGLEKSKGTLDFGADADFVLLDSDLH
 VQATYISGPVLAGCGDPAWCWRAVWEAPVCPAHPISVILPSSVSPWPWHTPMWQTRAVRLPEQLRGGWAS
 GALLALRTATVGSVDRDWCSPSTSGVIVLTFSPFEFWGGWLPSPLLTGAVLGTGGTRLALPLFSSLCKKAQ
 LRKCLQVQRDRMVWAPPVGREQPKNHLPQGLA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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 Size: 2077 bp

RefSeq ORF: 1785 bp

Locus ID: 51005

UniProt ID: [Q9Y303](#)

Cytogenetics: 16p13.3

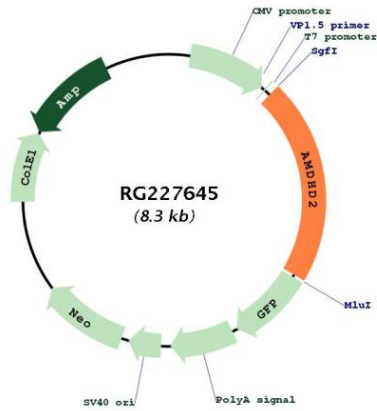
Protein Pathways:

Amino sugar and nucleotide sugar metabolism

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 RG227645