

Product datasheet for **RG205838**

AMDHD2 (NM_015944) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | AMDHD2 (NM_015944) 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) |
| ORF Nucleotide Sequence: | >RG205838 representing NM_015944 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCGGCGAGCAGGGCGCGGGGGCCCGGTGCTCCAGTTCCTAACTGCCGGATCCTGCGCGGAG
GAAACTGCTCAGGGAGGATCTGTGGGTGCGCGGAGGCCGCATCTGGACCCAGAGAAGCTGTTCTTTGA
GGAGCGGCGCGTGGCCGACGAGCGGGGACTGCGGGGGCCGCATCTGGCTCCCGGATTCATCGACGTG
CAGATCAACGGTGGATTGGTGTGACTTCTCTCAAGCCACGGAGGACGTGGGTTGCGGGTTGCCCTCG
TGGCCCGAGGATCCTGTCGACGGCGTCACTCCTTCTGCCACCCTGGTCACTTCCCACCGGAGGT
TTATCACAAAGTTGTTCCCTCAGATCCCTGTGAAGAGTGGTGGTCCCATGGGGCAGGGGTCTCGGGCTG
CACCTGGAGGGCCCTTCATCAGCCGGGAGAAGCGGGGCGCGACCCCGAGGCCACCTCCGCTCCTTCG
AGGCCGATGCCTTCCAGGACTTGTGGCCACCTACGGGCCCTGGACAATGTCCGCATCGTGACGCTGGC
CCCAGAGTTGGGCGTAGCCACGAAGTGATCCGGGCGCTGACGGCCCGTGGCATCTGCGTGTCCCTAGGG
CACTCAGTGGCTGACCTGCGGGCGCAGAGGATGCTGTGTGGAGCGGAGCCACCTTCATCACCCACCTCT
TCAACGCCATGCTGCCTTCCACCACCGCAGCCAGGCATCGTGGGGCTCCTGACCAGCGACCGGCTGCC
CGCAGGCCGCTGCATCTTCTATGGGATGATTGCAGATGGCACGCACCAACCCCGCCCGCTGCGGATC
GCCACCGTGCCCATCCCAGGGGCTGGTGTGTCACCGATGCCATCCCTGCCCTGGGCTGGGCAACG
GCCGGCACAGCTGGGACAGCAGGAAGTGGAAAGTGGACGGTCTGACGGCCTACGTGGCAGGTGAGCGCC
TGACCCACTGGTCCCAGGTCCCAGCCGCATGCCAGGTGGCCACGACCCCGCAGAGCCTGCCCTCTC
TGCTCTCAAGGCACCAAGACGCTGAGTGGCAGCATAGCCCAATGGACGTCTGTGTCGGCACTTCTCGC
AGGCCACAGGCTGCAGCATGGAGTCGGCCCTGGAGGCTGCATCCCTGCACCCCGCCAGTTGCTGGGGCT
GGAGAAGAGTAAGGGGACCCTGGACTTTGGTGTGACGCAGACTTCGTGGTGTGACGACTCCCTTCAC
GTCAGGCCACCTACATCTCGGGTGGTGTGGCAGGCGGACGCAGCTAGGCAG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205838 representing NM_015944
 Red=Cloning site Green=Tags(s)

MRGEQGAAGARVLQFTNCRILRGGKLLREDLWVRGGRILDPEKLFFEERRVADERRDCGGRILAPGFIDV
 QINGGFVDFVSQATEDVGSVALVARRILSHGVT SFCPTLVTSPPEVYHKVVPQIPVKSGGPHGAGVGLGL
 HLEGPFISREKRGAPHAHLRSFEADAFQDLLATYGPLDNVRIVTLAPELGRSHEVIRAL TARGICVSLG
 HSVADLRAAEDAVWSGATFITHLFNAMLPFHHRDPGIVGLLTSDRLPAGRCIFYGMIADGTHTNPAALRI
 AHRAHPQGLVLVTDALPALGLGNRHTLGQQEVEVDGLTAYVAGERPDPLGPRSQPACQVAHDPPRACPL
 CSQGTKLSGSIAPMDVCRHFLQATGCSMESALEAASLHPAQLLGLLEKSKGTLDFGADADFVLLDSDLH
 VQATYISGELVWQADAARQ

TRTRPLE – GFP Tag – V

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: 1540 bp

RefSeq ORF: 1320 bp

Locus ID: 51005

UniProt ID: [Q9Y303](#)

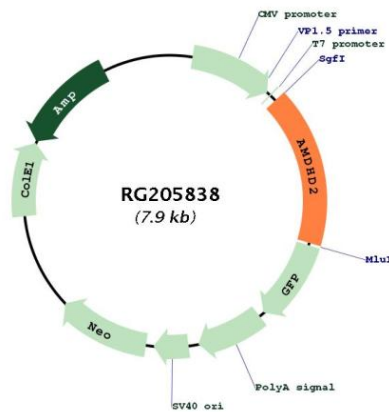
Cytogenetics: 16p13.3

Domains: Amidohydro_1

Protein Pathways: Amino sugar and nucleotide sugar metabolism

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 RG205838