

Product datasheet for **RG201869**

ABHD5 (NM_016006) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD5 (NM_016006) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABHD5
Synonyms:	CGI58; IECN2; NCIE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201869 representing NM_016006 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGAGGAGGAGGAGGTGGACTCTGCCGACACCGGAGAGAGGTCAGGATGGCTAACTGGTTGGC
TCCCCACATGGTGCCCTACGTCTATATCACACCTAAAGAAGCTGAAGAGAAGATGTTAAATGTGTGCC
TTGCACATACAAAAAGAACCTGTTTCGTATATCTAATGGAATAAAATATGGACTGAAGTTCTCTCAT
AATATTTCAAATAAGACTCCACTTGTCCTTCTCCATGGTTTTGGAGGAGGCTTTGGGCTCTGGCCACTGA
ATTTTGGAGATCTTGCACCAACAGACCTGTCTATGCTTTTGACCTATTGGGTTTTGGACGAAGTAGTAG
ACCCAGGTTTGACAGTGTGCAGAAGAAGTGGAGAATCAGTTTGTGGAATCCATTGAAGAGTGGAGATGT
GCCCTAGGATTGGACAAAATGATCTTGCTTGGGCACAACCTAGGTGGATTCTTGGCTGCTTACTCGC
TGAAGTACCCATCAAGGGTTAATCATCTCATTTTGTGGAGCCTTGGGGTTTTCCCTGAACGACCAGACCT
TGCTGTCAAGACAGACCAATCCAGTTTGGATCAGAGCCTTGGGAGCAGCATTGACTCCCTTAAACCT
TTAGCTGGCCTAAGGATTGCAGGACCTTTGGTTAAGTCTAGTGCAGCGTTTAAAGCCTGATTTCAAAC
GAAAGTATTCTCAATGTTTCAAGACGATACTGTGACAGAATACATCTACCACTGTAATGTGCAGACTCC
AAGTGGTGAGACAGCTTTCAAGAATATGACTATTCCTTATGGATGGCCAAAAGGCCAATGCTCCAGCGA
ATTGGTAAAATGCACCTGACATTCCAGTTTCAGTGATCTTTGGCGCCGATCCTGCATAGATGGCAAT
CTGGCACCAGCATCCAGTCTTACGACCACATTCATATGTGAAGACAATAGCTATTCTTGGGGCAGGACA
TTATGTATATGCAGATCAACCAGAAGAATTCAACCAGAAAAGTAAAGGAGATCTGCACACTGTGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201869 representing NM_016006
Red=Cloning site Green=Tags(s)

MAEEEEVDSADTGERSGWLTGWLPTWCPTSISHLKEAEEKMLKCVPTKYKPEVRI SNGNKIWLKFSH
 NISNKTPLVLLHGFGGGLGLWALNFGDLCTNRPVYAFDLLGFRSSRPRFSDAE EENQFVESIEEWRC
 ALGLDKMILLGHNLGGFLAAAYS LKYP SRVNHILVEPWGFPERPDLADQDRPIPWWIRALGAAL TPFNP
 LAGLRIAGPFGLSLVQRLRPDFK RKYSSMFEDDTVTEYIYHCNVQTPSGETA FKNMTIPYGWAKRPLQR
 IGMHPDIPVSVIFGARSCIDGNSGT SIQSLRPHSYVKTIAILGAGHYVYADQPEEFNQVKEICDTVD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016006

ORF Size: 1047 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_016006.6](#)

RefSeq Size: 1536 bp

RefSeq ORF: 1050 bp

Locus ID: 51099

UniProt ID: [Q8WTS1](#)

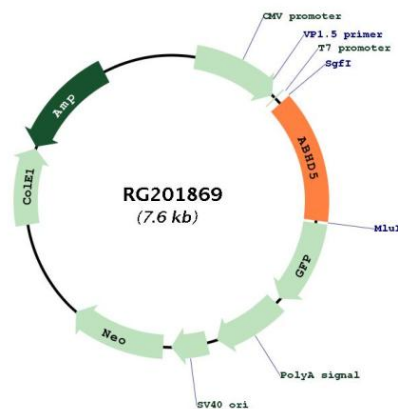
Cytogenetics: 3p21.33

Domains: abhydrolase

Protein Families: Protease

Gene Summary: The protein encoded by this gene belongs to a large family of proteins defined by an alpha/beta hydrolase fold, and contains three sequence motifs that correspond to a catalytic triad found in the esterase/lipase/thioesterase subfamily. It differs from other members of this subfamily in that its putative catalytic triad contains an asparagine instead of the serine residue. Mutations in this gene have been associated with Chanarin-Dorfman syndrome, a triglyceride storage disease with impaired long-chain fatty acid oxidation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201869