OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC201869

ABHD5 (NM_016006) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD5 (NM_016006) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABHD5
Synonyms:	CGI58; IECN2; NCIE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201869 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGAGGAGGAGGAGGTGGACTCTGCCGACACCGGAGAGAGGTCAGGATGGCTAACTGGTTGGC
TCCCCACATGGTGCCCTACGTCTATATCACACCTTAAAGAAGCTGAAGAGAAGATGTTAAAATGTGTGCC
TTGCACATACAAAAAAGAACCTGTTCGTATATCTAATGGAAATAAAATATGGACACTGAAGTTCTCTCAT
AATATTTCAAATAAGACTCCACTTGTCCTTCTCCATGGTTTTGGAGGAGGTCTTGGGCTCTGGGCACTGA
ATTTTGGAGATCTTTGCACCAACAGACCTGTCTATGCTTTTGACCTATTGGGTTTTGGACGAAGTAGTAG
ACCCAGGTTTGACAGTGATGCAGAAGAAGTGGAGAATCAGTTTGTGGAATCCATTGAAGAGTGGAGATGT
GCCCTAGGATTGGACAAAATGATCTTGCTTGGGCACAACCTAGGTGGATTCTTGGCTGCTGCTTACTCGC
TGAAGTACCCATCAAGGGTTAATCATCTCATTTTAGTGGAGCCTTGGGGTTTCCCTGAACGACCAGACCT
TGCTGATCAAGACAGACCAATTCCAGTTTGGATCAGAGCCTTGGGAGCAGCATTGACTCCCTTTAACCCT
TTAGCTGGCCTAAGGATTGCAGGACCCTTTGGTTTAAGTCTAGTGCAGCGTTTAAGGCCTGATTTCAAAC
GAAAGTATTCTTCAATGTTCGAAGACGATACTGTGACAGAATACATCTACCACTGTAATGTGCAGACTCC
AAGTGGTGAGACAGCTTTCAAGAATATGACTATTCCTTATGGATGGGCAAAAAGGCCAATGCTCCAGCGA
ATTGGTAAAATGCACCCTGACATTCCAGTTTCAGTGATCTTTGGCGCCCGATCCTGCATAGATGGCAATT
CTGGCACCAGCATCCAGTCCTTACGACCACATTCATATGTGAAGACAATAGCTATTCTTGGGGCAGGACA
TTATGTATATGCAGATCAACCAGAAGAATTCAACCAGAAAGTAAAGGAGATCTGCGACACTGTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC201869 protein sequence
Red=Cloning site Green=Tags(s)

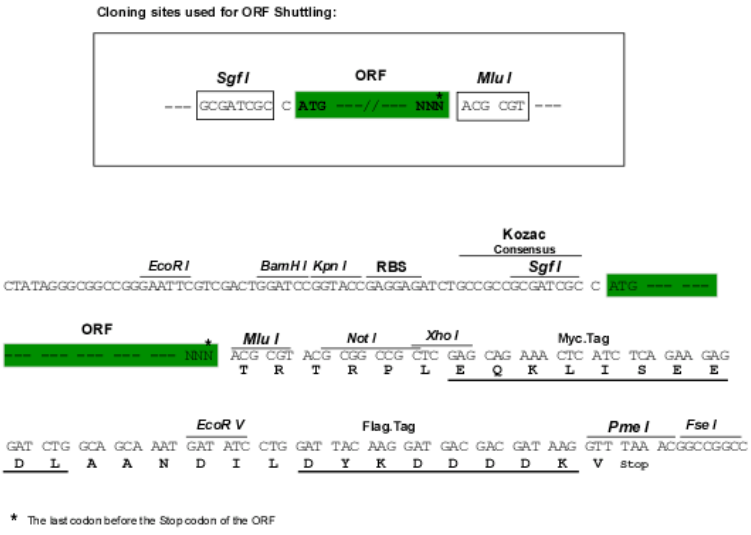
MAAEEEEVDSADTGERSGWLTGWLPTWCPTSISHLKEAEEKMLKCVPCTYKKEPVRISNGNKIWTLKFSH
NISNKTPLVLLHGFGGGLGLWALNFGDLCTNRPVYAFDLLGFGRSSRPRFDSDAEEVENQFVESIEEWRC
ALGLDKMILLGHNLGGFLAAAYSLKYPSRVNHLILVEPWGFPERPDLADQDRPIPVWIRALGAALTPFNP
LAGLRIAGPFGLSLVQRLRPDFKRKYSSMFEDDTVTEYIYHCNVQTPSGETAFKNMTIPYGWAKRPMLQR
IGKMHPDIPVSVIFGARSCIDGNSGTSIQSLRPHSYVKTIAILGAGHYVYADQPEEFNQKVKEICDTVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6137_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016006

ORF Size: 1047 bp

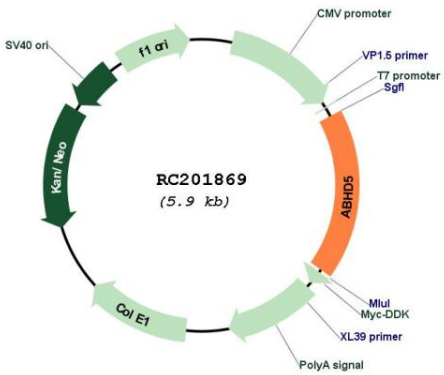
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

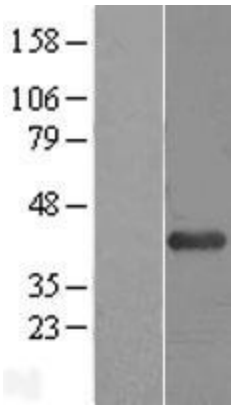
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	5370 bp
RefSeq ORF:	1050 bp
Locus ID:	51099
UniProt ID:	Q8WTS1
Cytogenetics:	3p21.33
Domains:	abhydrolase
Protein Families:	Protease
MW:	39.1 kDa
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]

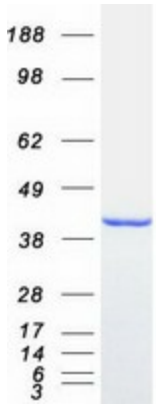
Product images:



Circular map for RC201869



Western blot validation of overexpression lysate (Cat# [LY402485]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201869 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ABHD5 protein (Cat# [TP301869]). The protein was produced from HEK293T cells transfected with ABHD5 cDNA clone (Cat# RC201869) using MegaTran 2.0 (Cat# [TT210002]).