

Product datasheet for **RR212804**

Abhd6 (NM_001007680) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abhd6 (NM_001007680) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Abhd6
Synonyms: MGC94917
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212804 representing NM_001007680
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTCGATGTGGTTAACATGTTTGTGATTGCGGGTGGGACCCTGGCCATCCGATCCTGGCCTTCG
TAGCTTCTTTCTCCTTTGGCCCTCGGCGCTGATAAGAATCTATTATTGGTACTGGCGGAGGACGCTGGG
CATGCAAGTCCGCTACGTGCACCAGGACTATCAGTTCTGTTACTCCTCCGGGGCAGGCCAGGACAC
AAGCCGTCGGTCTTATGCTTACGGGTTCTCCGCACACAAGGATATGTGGCTCAGTGTGGTCAAGTTCC
TTCCCAAGAATCTGCACTTGGTCTGTGTGGACATGCCTGGACATGAAGGGACCACCCGTTCTCCCTGGA
TGACCTGTCCATAGTTGGCAAGTGAAAAGGATACATCAGTTTGTAGAATGCCTTAAGCTGAACAAAAAG
CCCTTTCACCTTATAGGCACCTCCATGGGTGGCAACGTGGCTGGAGTATACGCTGCTTACTATCCATCTG
ACGTCTGCAGCCTGTCTCTCGTGTGCCCTGCTGGCCTGCAGTATTCAACTGACAATCGGTTTGTACAACG
GCTCAAAGAGCTGGAGGACTCAGCCGCCACGCAGAAGATCCCTTTGATCCCATCCACCCCGAAGAGATG
AGCGAGATGCTGCAGCTCTGCTCGTACGTCCGCTTCAAGGTGCCCCAGCAGATCCTTCAAGGTCTTGTCG
ACGTTTCGATCCCTCACAACAGTCTACCGGAAATTGTTTTGGAAATCGTCAGTGAGAAATCCAGATA
CTCTCTGCATGAGAACATGGACAAGATCAAGGTCCCAACACAGATCATTGGGGAAAACAAGACCAGGTG
CTTGATGTGTCGGGGCAGACATATTAGCCAAGTCCATCACTAACTCCCAGGTAGAGTTCTGGAAAAT
GTGGCCATTCAGTGGTATGGAGAGACCAGGAAGACAGCCAAGCTCGTCGTCGACTTTTTAGCTTCTGT
GCACAACCCAGACAACAACAAGAAGCTGAAC

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212804 representing NM_001007680
 Red=Cloning site Green=Tags(s)

MDLDVVNMFVIAGGTLAIPILAFVASFLLWPSALIRIYYWYWRRTLGMQVRYVHHEDYQFCYSFRGRPGH
 KPSVLMHLHGFSAHKDMWLSVVKFLPKNLHLVCVDMPGHEGTRSSLDDLIVGQVKRIHQFVECLKLNKK
 PFHLIGTSMGGNVAGVYAAAYPSDVCSLSLVCAPAGLQYSTDNRFVQRLKELEDSAATQKIPLIPSTPEEM
 SEMLQLCSYVRFKVPQQILQGLVDVRIPHNSFYRKLFLIEIVSEKSRYSLHENMDKIKVPTQIIWGKQDQV
 LDVSGADILAKSITNSQVEVLENCGHSVVMERPRKTAKLVVDFLASVHNPDNKKLN

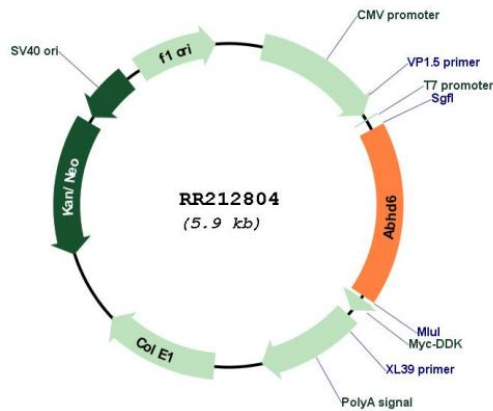
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007680

ORF Size: 1011 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:	<ol style="list-style-type: none">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_001007680.1 , NP_001007681.1
RefSeq Size:	2225 bp
RefSeq ORF:	1014 bp
Locus ID:	305795
UniProt ID:	Q5XI64
Cytogenetics:	15p14
MW:	38.3 kDa
Gene Summary:	Lipase that preferentially hydrolysis medium-chain saturated monoacylglycerols including 2-arachidonoylglycerol (By similarity). Through 2-arachidonoylglycerol degradation may regulate endocannabinoid signaling pathways. Also has a lysophosphatidyl lipase activity with a preference for lysophosphatidylglycerol among other lysophospholipids (By similarity). Also able to degrade bis(monoacylglycerol)phosphate (BMP) and constitutes the major enzyme for BMP catabolism. BMP, also known as lysobisphosphatidic acid, is enriched in late endosomes and lysosomes and plays a key role in the formation of intraluminal vesicles and in lipid sorting (By similarity).[UniProtKB/Swiss-Prot Function]