

## Product datasheet for **RR213964**

### Abhd5 (NM\_212524) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Abhd5 (NM_212524) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abhd5
Synonyms:	CGI-58
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213964 representing NM_212524 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAAGCGATGGCGCGGAGGAGGAGGTGGACTCGGCAGACGCCGGTGGAGGGTCAGGATGGCTGACAG  
GGTGGCTTCTACCTGGTGTCCCAGTCTACATCACACCTTAAAGAAGCTGAAGAGAAAAATGCTAAAATG  
TGTCCTCCCTGCACCTACAAGAAAGAACCTGTGCGCATATCCAATGGAAACAGCATATGGACTGATGTTCC  
TCGCACAACATGTCTAGTAAGACACCCTTGTCCCTCCTGCATGGTTTTGGAGGAGGTCTTGGACTTTGGG  
CCCTGAATTTTGAAGATCTAAGCACTGATAGGCCCTGTCTATGCCTTTGACCTATTGGGCTTTGGAAGAAG  
TAGTAGACCTAGGTTTGACAGTGACCGGAAGAAGTGGAGAATCAGTTTGTGGAATCCATTGAAGAGTGG  
AGATGTGCCCTCAGGTTGGACAAAATGATCTTGCTTGGACACAACCTGGGAGGGTTCTTGGCTGCTGCCT  
ACTCACTGAAGTACCCGTCAAGGGTCAGTCACCTCATTAGTAGAACCATGGGGTTTTCTGAGCGACC  
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AACCCCTTGGCTGGCCTCAGGATTGCAGGACCTTTTGGGTTGAGTCTAGTGCAGCGCCTGAGGCCGACT  
TCAAGCGGAAGTACTCCTCTATGTTTGAAGATGACACGGTGACAGAGTACATCTACCAGTGAATGTACA  
AACCCCAAGTGGTGAGACAGCTTTCAAAAACATGACGATTCCCTTACGGGTGGGCCAAGCGCCCATGCTC  
CAGCGCATAGGTGGCTTGACCCCTGACATTCCAGTTTCAGTCATCTTCGCGCCTCCGCTGCATAGATG  
GCAACTCTGGCACCAGCATCCAGTCACTGCGACCCAAGTCATACGTGAAGACAATTGCTATCCTCGGGG  
AGGGCATTATGTGTATGCAGACCAGCCAGAGGAGTTCAACCAGAAAGTCAAGGAGATCTGCCACACAGTA  
GAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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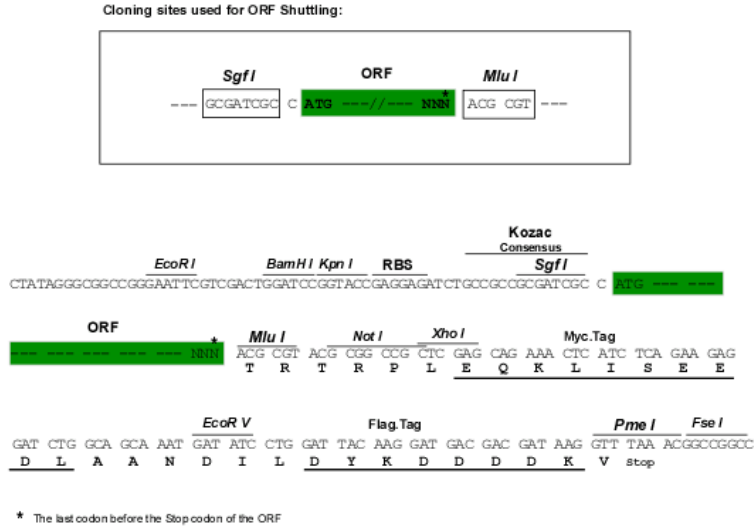
Protein Sequence: >RR213964 representing NM\_212524  
 Red=Cloning site Green=Tags(s)

MKAMAAEEVDSADAGGGSGWL TGWLPWCPTSTSHLKEAEEKMLKCVPCYKKEPVRI SNGNSIWTLMF  
 SHNMSSKTPLVLLHGFGGGLGLWALNFEDLSTDRPVYAFDLLGFRSSRPRFSDAE EVENQFVESIEEW  
 RCALRLDKMILLGHNLGFLAAAYS LKYP SRVSHLILVEPWGFPERPDLADQERP IPVWIRALGAALTPF  
 NPLAGLRIAGPFGLSLVQRLRPDFKRKYSSMFEDDTVTEYIYHCNVQTPSGETA FKNM TIPYGWAKRPML  
 QRIGGLHPDIPVSVIFGARSCIDGNSGTSIQSLRPKSYVKTIAILGAGHYVYADQP EEFNQKVKEICTHTV  
 D

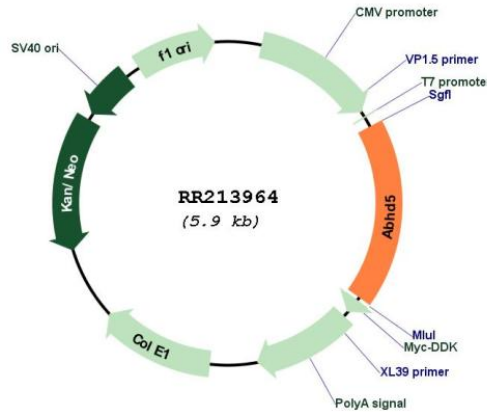
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_212524

<b>ORF Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_212524.1</a> , <a href="#">NP_997689.1</a>
<b>RefSeq Size:</b>	1108 bp
<b>RefSeq ORF:</b>	1056 bp
<b>Locus ID:</b>	316122
<b>UniProt ID:</b>	<a href="#">Q6QA69</a>
<b>Cytogenetics:</b>	8q32
<b>MW:</b>	39.1 kDa
<b>Gene Summary:</b>	Coenzyme A-dependent lysophosphatidic acid acyltransferase that catalyzes the transfer of an acyl group on a lysophosphatidic acid. Functions preferentially with 1-oleoyl-lysophosphatidic acid followed by 1-palmitoyl-lysophosphatidic acid, 1-stearoyl-lysophosphatidic acid and 1-arachidonoyl-lysophosphatidic acid as lipid acceptor. Functions preferentially with arachidonoyl-CoA followed by oleoyl-CoA as acyl group donors (By similarity). Functions in phosphatidic acid biosynthesis (By similarity). May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2 (By similarity). Involved in keratinocyte differentiation (By similarity). Regulates lipid droplet fusion (By similarity).[UniProtKB/Swiss-Prot Function]