

Product datasheet for **MG206769**

Abhd2 (NM_018811) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abhd2 (NM_018811) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Abhd2
Synonyms: 2210009N18Rik; Labh-2; LABH2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206769 representing NM_018811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATGCCATGCTAGAGACCCCGAGCTCCCCGCCGTGTTTGTATGGGGTGAAGCTGGCTGCCGTAGCTG
 CCGTTCTACTCGTCATCGTGC GGTTGTTGAACCTGAAGAGCCCTACTGCCCTCTGACCTCTACTTCCA
 GGACTCCGGGCTCTCACGTTTCTGCTCAAATCCTGTCTTCTGACCAAAGAATACATTCCACCACTG
 ATCTGGGGGAAAAGCGGACATATCCAGACAGCCTTGTATGGGAAGATGGGGAGGGTGAGGTCACCACACC
 CTTACGGGCACCGCAAGTTCATCACCATGTCGGATGGTCCACTTCTACCTTCGACCTCTTCGAGCCCCT
 GGCTGAGCACTGTGTTGGAGATGACATCACCATGGTCATCTGTCCTGGAATTGCCAACACAGCGAGAAG
 CAGTATATCCGAACCTTCGTTGACTATGCCAGAAAAATGGCTACCGGTGCGCAGTGCTAAACCACCTGG
 GAGCCCTCCCAACATTGAGCTGACCTCCCAACGAATGTTACCTATGGCTGCACGTGGGAATTTGGAGC
 CATGGTGAACATCAAGAGGACATATCCCCAGACCCAGCTGGTCGTCGTGGGCTTCAGCTGGGTGGT
 AACATCGTGTGCAAACTTGGGGGAGACGCAGGCAAACCAGGAAAAGGTCCTGTGCTGTGTGAGTGTG
 GCCAGGGGTACAGCGCACTGAGGGCCAGGAGACCTTCATGCAGTGGGACCAGTGCCGACGGTTCTACAA
 CTTCTCATGGCCGACAACATGAAGAAGATCATCTGTCTCACAGACAAGCTCTCTTTGGAGACCAGTT
 AAGAAAACCCAGAGCCTGGAGGACACGGACTTGGCCGGTGTACACAGCAACATCCCTGATGCAGATTG
 ATGACAATGTGATGAGAAAGTTCATGGCTATAATTCCTGAAGGAATACTATGAGGAAGAGAGCTGCAT
 GAGGTACCTGCACAGGATATATGTCCTCTCATGCTGGTTAATGCAGCTGACGACCCCTTGGTGCACGAA
 AGCCTTCTAACCATTCAAAAGTCTCTCTCAGAGAAACGGGAGAATGTCATGTTCTGCTGCCTCTGCATG
 GGGCCACCTGGGCTTCTTCGAGGGCTCCGTGCTGTTCCCGAGCCGCTGACATGGATGGATAAGCTGGT
 AGTGGAGTATGCCAATGCCATTTGCCAATGGGAAAGGAATAAGTCCCAGTGTCTCAGACACGGAGCAGATG
 GAGGCCGAGTTGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206769 representing NM_018811
 Red=Cloning site Green=Tags(s)

MNAMLETPELPAVFDGVKLAAVAALVYIVRCLNLKSPTAPPDLYFQDSGLSRFLKSCPLLTKYIPPL
 IWGKSGHIQTALYGKMGVRVSRPHYPGHRKFITMSDGATSTFDLFEPLAEHCVGDDITMVICPGIANHSEK
 QYIRTFVDYAQKNGYRCAVLNHLGALPNIELTSPRMFTYGCTWEFGAMVNYIKRTYPQTQLVVVGFSLGG
 NIVCKYLGETQANQEKVLCCVSVCOGYSALRAQETFMQWDQCRRFYNFLMADNMKKIILSHRQALFGDHV
 KKPQSLEDLTLRLYTATSLMQIDDNVMRKFHGYNSLKEYEYESCMRYLHRIYVPLMLVNAADPLVHE
 SLLTIPKSLSEKRENVFVPLPLHGGHLGFFEGSVLFPEPLTWMDKLVVEYANAICQWERNKSQCSDETMQ
 EAELE

TRTRPLE - GFP Tag - V

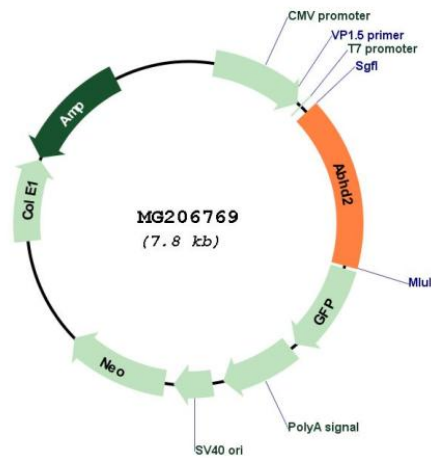
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_018811

ORF Size:	1275 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_018811.6
RefSeq Size:	2904 bp
RefSeq ORF:	1278 bp
Locus ID:	54608
UniProt ID:	Q9QXM0
Cytogenetics:	7 D2
Gene Summary:	<p>Progesterone-dependent acylglycerol lipase that catalyzes hydrolysis of endocannabinoid arachidonoylglycerol (AG) from cell membrane. Acts as a progesterone receptor: progesterone-binding activates the acylglycerol lipase activity, mediating degradation of 1-arachidonoylglycerol (1AG) and 2-arachidonoylglycerol (2AG) to glycerol and arachidonic acid (AA). Also displays an ester hydrolase activity against acetyl ester, butanoate ester and hexadecanoate ester. Plays a key role in sperm capacitation in response to progesterone by mediating degradation of 2AG, an inhibitor of the sperm calcium channel CatSper, leading to calcium influx via CatSper and sperm activation (By similarity). Involved in acrosomal reaction (Probable). May also play a role in smooth muscle cells migration (PubMed:15721306). [UniProtKB/Swiss-Prot Function]</p>