

Product datasheet for **MR206769**

Abhd2 (NM_018811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abhd2 (NM_018811) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abhd2
Synonyms:	2210009N18Rik; Labh-2; LABH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206769 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGCCATGCTAGAGACCCCGAGCTCCCGCGGTGTTTATGGGGTGAAGCTGGCTGCCGTAGCTG
 CGTTTCTCTACGTCATCGTGC GGTTTGAACCTGAAGAGCCCTACTGCCCTCCTGACCTCTACTTCCA
 GGACTCCGGGCTCTCACGTTTCTGCTCAAATCCTGTCCTTCTTGACCAAAGAATACATTCCACCACTG
 ATCTGGGGGAAAAGCGGACATATCCAGACAGCCTTGATGGGAAGATGGGGAGGGTGAAGTACCACACC
 CTTACGGGCACCGCAAGTTCATCACCATGTCGGATGGTGCCTTCTACCTTCGACCTCTTCGAGCCCT
 GGCTGAGCACTGTGGAGATGACATCACCATGGTCACTGTCCTGGAATTGCCAACACAGCGAGAAG
 CAGTATATCCGAACCTTCGTTGACTATGCCAGAAAAATGGCTACCGGTGCGCAGTGCTAAACCACCTGG
 GAGCCCTCCCAACATTGAGCTGACCTCCACGAATGTTACCTATGGTGCACGTGGGAATTTGGAGC
 CATGGTGAACATCAAGAGGACATATCCCCAGACCCAGCTGGTCGTCGTTGGGCTTCAGCTGGGTGGT
 AACATCGTGTGCAAACTTGGGGGAGACGCAGGCAAACCAGGAAAAGGTCTGTGCTGTGTCAGTGTGT
 GCCAGGGGTACAGCGCACTGAGGGCCAGGAGACCTTCATGCAGTGGGACCAGTGCCGCAGGTTCTACAA
 CTTCTCATGGCCGACAACATGAAGAAGATCATCTGTCTCACAGACAAGCTCTCTTTGGAGACCAGTT
 AAGAAACCCAGAGCCTGGAGGACACGGACTTGAGCCGGCTGTACACAGCAACATCCCTGATGCAGATTG
 ATGACAATGTGATGAGAAAGTCCATGGCTATAATTCCCTGAAGGAATACTATGAGGAAGAGAGCTGCAT
 GAGGTACCTGCACAGGATATATGTGCCTCATGCTGGTAAATGCAGTGACGACCCCTTGGTGCACGAA
 AGCCTTCAACATTCCAAAGTCTCTCAGAGAAACGGGAGAATGTATGTTGCTGCCTCTGCATG
 GGGGCCACCTGGCTTCTTCGAGGGCTCCGTGCTGTTCCCGAGCCGCTGACATGGATGGATAAGCTGGT
 AGTGGAGTATGCCAATGCCATTTGCCAATGGAAAGGAATAAGTCCCAGTGCTCAGACACGGAGCAGATG
 GAGGCCGAGTTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206769 protein sequence
 Red=Cloning site Green=Tags(s)

MNAMLETPELPAVFDGVKLAAVAALVYIVRCLNLKSPTAPPDL YFQDSGLSRFLKSCPLL TKEYIPPL
 IWGKSGHIQTAL YGKMGRVRSPPHYGHRKF ITMSDGATSTFDL FEPLAEHCVGDDITMVICPGIANHSEK
 QYIRTFVDYAQKNGYRCAVLNHLGALPNIEL TSPRMFTYGCTWEFGAMVNYIKRTPYQTLVVVGFSLGG
 NIVCKYLGETQANQEKVLCVSVQCQYSALRAQETFMQWDQCRRFYNFLMADNMKKIILSHRQALFGDHV
 KKPQSLIEDTDL SRLYTATSLMQIDDNVMRKFHGYNSLKEYEEESCMRYLHRIYVPLMLVNAADDPLVHE
 SLLTIPKSLSEKRENVFVLP LHGGHLGFFEGSVLFPPEL TWMDKL VVEYANAICQWERNKSQCSDEQM
 EAELE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_018811

ORF Size: 1278 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_018811.6](#)
RefSeq Size: 2903 bp

RefSeq ORF: 1278 bp

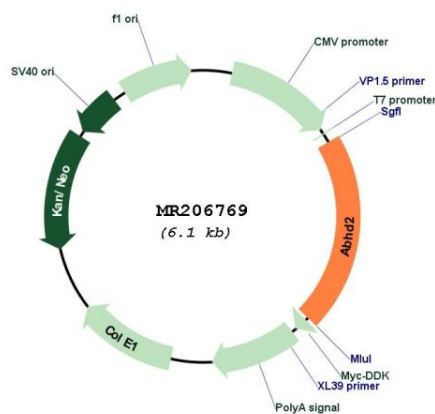
Locus ID: 54608

UniProt ID: [Q9QXM0](#)
Cytogenetics: 7 D2

MW: 48.4 kDa

Gene Summary: 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]

Product images:



Circular map for MR206769