

Product datasheet for **RG210637**

ABHD2 (NM_152924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD2 (NM_152924) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABHD2
Synonyms:	HS1-2; LABH2; PPHP1-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210637 representing NM_152924 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGCCATGCTGGAGACTCCCGAACTCCAGCCGTGTTTGTGGAGTGAAGCTGGCTGCAGTGGCTG
CTGTGCTGACGTGATCGTCCGGTGTGTTGAACCTGAAGAGCCCCACAGCCCCACCTGACCTCTACTTCCA
GGACTCGGGCTCTCACGCTTCTGCTCAAGTCTGTCTTCTGACCAAAGAATACATTCCACCGTTG
ATCTGGGGAAAAGTGGACACATCCAGACAGCCTTGTATGGGAAGATGGGAAGGGTGAAGTGCACATC
CTTATGGGCACCGAAGTTCATCACTATGTCTGATGGAGCCACTTCTACATTCGACCTCTTCGAGCCCTT
GGCTGAGCACTGTGTTGGAGATGATATCCCATGGTCATCTGCCCTGGAATTGCCAATCAGACGAGAAG
CAATACATCCGCACTTTCGTTGACTACGCCAGAAAAATGGCTATCGGTGCGCCGTGCTGAACCACTGG
GTGCCCTGCCCAACATTGAATTGACCTCGCCACGCATGTTACCTATGGCTGCAGTGGGAATTTGGAGC
CATGGTGAACATCAAGAAGACATATCCCTGACCCAGCTGGTCGTCGTTGGGCTTCAGCTGGGTGGT
AACATTGTGTGCAAACTTGGGGGAGACTCAGGCAAACCAAGAGAAGGTCTGTGCTGCGTCAGCGTGT
GCCAGGGTACAGTGCAGTGGGGCCAGGAACTTCATGCAATGGGATCAGTCCGGCGGTTCTACAA
CTTCTCATGGCTGACAACATGAAGAAGATCATCTCTCGCACAGGCAAGCTCTTTTTGGAGACCATGTT
AAGAAACCCAGAGCCTGGAAGACAGGACTTGGCCGCTCTACACAGCAACATCCCTGATGCAGATTG
ATGACAATGTGATGAGGAAGTTTCACGGCTATAACTCCCTGAAGGAATACTATGAGGAAGAAAGTTGCAT
CGGGTACCTGCACAGGATTTATGTTCTCTCATGCTGGTTAATGCAGCTGACGATCCGTTGGTGCATGAA
AGTCTTCTAACCAATCCAAAATCTTTTCAGAGAAACGAGAGAACGTCATGTTTGTGCTGCCTCTGCATG
GGGGCCACTTGGGCTTCTTTGAGGGCTCTGTGCTGTTCCCGAGCCCTGACATGGATGGATAAGCTGGT
GGTGGAGTACGCCAACGCCATTTGCCAATGGGAGCGTAACAAGTTGCAGTGTCTGACACGGAGCAGGTG
GAGGCCGACCTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210637 representing NM_152924
 Red=Cloning site Green=Tags(s)

MNAMLETPELPAVFDGVKLAAVAALVYIVRCLNLKSPTAPPDL YFQDSGLSRFLKSCPLL TKEYIPPL
 IWGKSGHIQTAL YGKMGRVRSPPHYGHRKFITMSDGATSTFDL FEPLAEHCVGDDITMVICPGIANHSEK
 QYIRTFVDYAQKNGYRCAVLNHLGALPNIELTSPRMFTYGCTWEFGAMVNYIKKTYPLTQLVVVGFSLGG
 NIVCKYLGETQANQEKVLCCVSVCOGYSALRAQETTFMQWDQCRRFYNFLMADNMKKIILSHRQALFGDHV
 KKPQSLEDTDL SRLYTATSLMQIDDNVMRKFHGYNSLKEYEYESCMRYLHRIYVPLMLVNAADDPVHE
 SLLTIPKSLSEKRENVMFVPLPHGGHGLGFFEGSVLFPEPLTWMDKLVVEYANAICQWERNKLQCSDETVQ
 EADLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152924

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:

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_152924.5](#)

RefSeq Size: 8687 bp

RefSeq ORF: 1278 bp

Locus ID: 11057

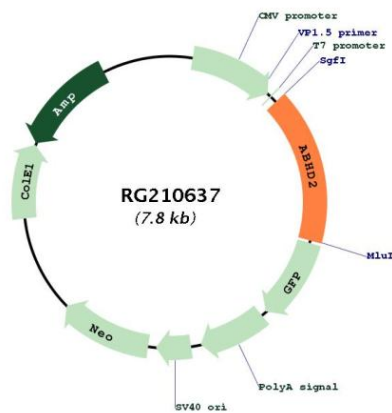
UniProt ID: [P08910](#)

Cytogenetics: 15q26.1

Domains: abhydrolase

Gene Summary: This gene encodes a protein containing an alpha/beta hydrolase fold, which is a catalytic domain found in a wide range of enzymes. The encoded protein is an acylglycerol lipase that catalyzes the hydrolysis of endocannabinoid arachidonoylglycerol from the cell membrane. This leads to activation of the sperm calcium channel CatSper, which results in sperm activation. Alternative splicing of this gene results in two transcript variants encoding the same protein. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG210637