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Product datasheet for RC210098

FAAH2 (NM_174912) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAAH2 (NM_174912) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAAH2
Synonyms:	AMDD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC210098 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCACCTTCATTTACCGCCCGCATTCAGTTGTTCCTCTTGCGGGCGCTAGGCTTTCTCATAGGCTTAG
TAGGCCGAGCAGCTTTAGTCTTAGGGGGTCCAAAGTTTGCCTCAAAGACCCCTCGGCCGGTGACTGAACC
ATTGCTTCTGCTTTCGGGGATGCAGCTGGCCAAGCTGATCCGACAGAGAAAGGTGAAATGTATAGATGTT
GTTCAGGCTTATATCAACAGAATCAAGGACGTGAACCCAATGATCAATGGAATTGTCAAGTACAGGTTTG
AGGAAGCGATGAAGGAGGCTCATGCTGTAGATCAAAAGCTTGCAGAGAAGCAGGAAGATGAAGCCACCCT
GGAAAATAAATGGCCCTTCCTTGGGGTTCCTTTGACAGTCAAGGAAGCTTTCCAGCTACAAGGAATGCCC
AATTCTTCTGGACTCATGAACCGTCGTGATGCCATTGCCAAAACAGATGCCACTGTGGTGGCATTACTGA
AGGGAGCTGGTGCCATTCCTCTTGGCATAACCAACTGTAGTGAGTTGTGTATGTGGTATGAATCCAGTAA
CAAGATCTATGGCCGATCAAACAACCCATATGATTTACAGCATATTGTAGGTGGAAGTTCTGGTGGTGAG
GGCTGCACACTGGCAGCTGCCTGCTCAGTTATTGGTGTGGGCTCTGATATTGGTGGTAGCATTCGAATGC
CTGCTTTCTTCAATGGTATATTTGGACACAAGCCTTCTCCAGGTGTGGTTCCCAACAAAGGTCAGTTTCC
CTTGGCTGTGGGAGCCCAGGAGTTGTTTCTGTGCACTGGTCCTATGTGCCGCTATGCTGAAGACCTGGCC
CCCATGTTGAAGGTCATGGCAGGACCTGGGATCAAAAGGTTAAAACTAGACACAAAGGTACATTTAAAAG
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TATGACTCAGAAAAAGGTTGTGGTTCACCTTGAAACTATTCTAGGAGCCTCAGTTCAACATGTTAAACTG
AAGAAAATGAAGTACTCTTTTCAGTTGTGGATCGCAATGATGTCAGCAAAGGGACATGATGGGAAGGAAC
CTGTGAAATTTGTAGATTTGCTTGGTGACCATGGGAAACATGTCAGTCCTCTGTGGGAGTTGATCAAATG
GTGCCTGGGTCTGTCAGTGTACACCATCCCTTCCATTGGACTGGCTTTGTTGGAAGAAAAGCTCAGATAT
AGCAATGAGAAATACCAAAAGTTTAAGGCAGTGGAAGAAAGCCTGCGTAAAGAGCTGGTGGATATGCTAG
GTGATGATGGTGTGTTCTTATATCCCTCACATCCCACAGTGGCACCTAAGCATCATGTCCCTCTAACACG
GCCCTTCAACTTTGCTTACACAGGTGTCTTCAGTGCCCTGGGTTTGCCTGTGACCCAATGCCCACTGGGA
CTGAATGCCAAAGGACTCCCTTTAGGCATCCAGGTTGTGGCTGGACCCTTTAATGATCATCTGACCCTGG
CTGTGGCCCAGTACTTGGAGAAAACTTTTGGGGGCTGGGTCTGTCCAGGAAAGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210098 protein sequence
Red=Cloning site Green=Tags(s)

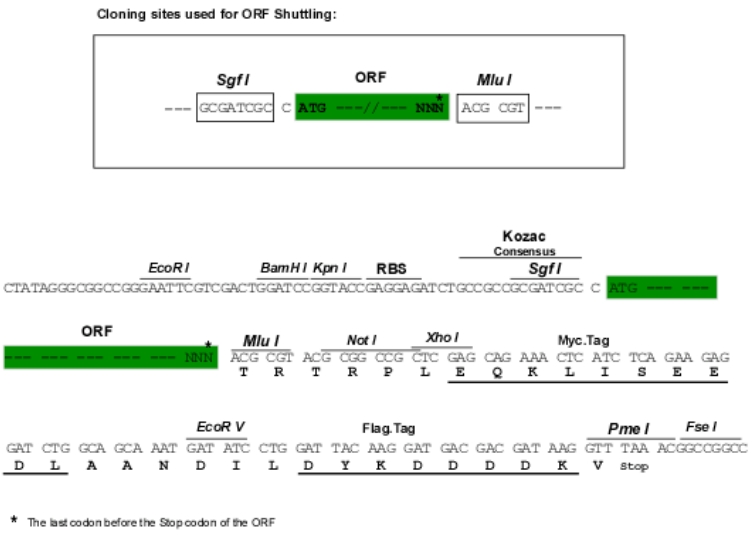
MAPSFTARIQLFLLRALGFLIGLVGRAALVLGGPKFASKTPRPVTEPLLLLSGMQLAKLIRQRKVKCIDV
VQAYINRIKDVNPMINGIVKYRFEEAMKEAHAVDQKLAEKQEDEATLENKWPFLGVPLTVKEAFQLQGMP
NSSGLMNRRDAIAKTDATVVALLKGAGAIPLGITNCSELCMWYESSNKIYGRSNNPYDLQHIVGGSSGGE
GCTLAAACSVIGVGSDIGGSIRMPAFFNGIFGHKPSPGVVPNKGQFPLAVGAQELFLCTGPMCRYAEDLA
PMLKVMAGPGIKRLKLDTKVHLKDLKFYWMEHDGGSFLMSKVDQDLIMTQKKVVVHLETILGASVQHVKL
KKMKYSFQLWIAMMSAKGHDGKEPVKFVDLLGDHGKHVSPLWELIKWCLGLSVYTIPSIGLALLEEKLRY
SNEKYQKFKAVEESLRKELVDMLGDDGVFLYPSHPTVAPKHHVPLTRPFNFAYTGVFSALGLPVTQCPLG
LNAKGLPLGIQVVAGPFNDHLTLAVAQYLEKTFGGWVCPGKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6363_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_174912

ORF Size: 1596 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_174912.3

RefSeq Size: 2039 bp

RefSeq ORF: 1599 bp

Locus ID: 158584

UniProt ID: Q6GMR7

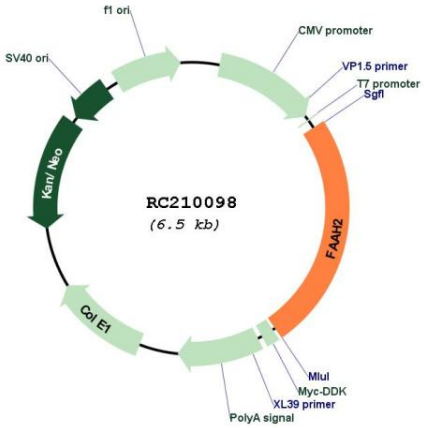
Cytogenetics: Xp11.21

Protein Families: Transmembrane

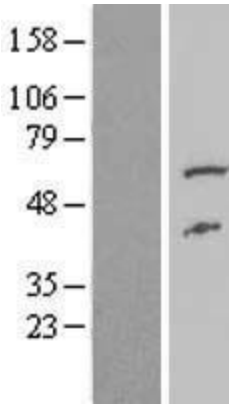
MW: 58.3 kDa

Gene Summary: This gene encodes a fatty acid amide hydrolase that shares a conserved protein motif with the amidase signature family of enzymes. The encoded enzyme is able to catalyze the hydrolysis of a broad range of bioactive lipids, including those from the three main classes of fatty acid amides; N-acylethanolamines, fatty acid primary amides and N-acyl amino acids. This enzyme has a preference for monounsaturated acyl chains as a substrate. Alternate splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC210098



Western blot validation of overexpression lysate (Cat# [LY406395]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210098 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).