

Product datasheet for **RC210331**

FAAH1 (FAAH) (NM_001441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAAH1 (FAAH) (NM_001441) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAAH1
Synonyms:	FAAH-1; PSAB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC210331 representing NM_001441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCAGTACGAGCTGTGGGCCGCTGCCTGGCGCCTCCGGGTGCGCCTGGCCTGCTGCTTCTGTGG
 CGGCGGCCGTGGCCCTGCGCTGGTCCGGGCGCCGACGGCGGGGCGCGGTGGTCCGGGCGCAGACAGAG
 GCAGCGAGCGGGCCTGGAGAACATGGACAGGGCGCGCAGCGCTTCCGGTCCAGAACCCAGACCTGGAC
 TCAGAGGCGCTGCTAGCCCTGCCCTGCCTCAGCTGGTGCAGAAGTTACACAGTAGAGAGCTGGCCCTG
 AGGCCGTGCTTTCACCTATGTGGGAAAGGCTGGGAAGTGAACAAAGGGACCAACTGTGTGACCTCCTA
 TCTGGCTGACTGTGAGACTCAGCTGTCTCAGGCCCAAGGCAGGGCCTGCTCTATGGCGTCCCTGTGAGC
 CTCAAGGAGTGTTCACCTACAAGGGCCAGGACTCCACGCTGGGCTTGGCCTGAATGAAGGGGTGCCGG
 CGGAGTGCACAGCGTAGTGGTGCATGTCTGAAGCTGCAGGGTCCGCTGCCCTTCGTGCACACCAATGT
 TCCACAGTCCATGTTTCACTATGACTGCAGTAACCCCTCTTTGGCCAGACCGTGAACCCATGGAAGTCC
 TCCAAAAGCCAGGGGGCTCCTCAGGGGTGAAGGGGCCCTCATCGGGTCTGGAGGCTCCCCCTGGGCT
 TAGGCACTGATATCGGAGGCAGCATCCGCTTCCCTCCTCCTTCTGCGGCATCTGCGGCCTCAAGCCAC
 AGGGAACCGCCTCAGCAAGAGTGGCCTGAAGGGCTGTGTCTATGGACAGGAGGAGTGCCTCTCTCCGTG
 GGCCCATGGCCCGGACGTGGAGAGCCTGGCACTGTGCTGCGAGCCCTGCTGTGCGAGGACATGTTCC
 GCTTGGACCCACTGTGCTCCCTTGCCTTCCAGAGAAGAGTCTACACCAGCTCTCAGCCCTGCGTGT
 GGGTACTATGAGACTGACAATATACCATGCCCTCCCGGCCATGAGGCGGGCCGTGCTGGAGACCAAA
 CAGAGCCTTGAGGCTGCGGGGCACACGCTGGTTCCTTCTTCCAAAGCAACATACCCCATGCTCTGGAGA
 CCCTGTCAACAGTGGGCTTTCAGTGATGGTGGCCACACCTTCTACAGAACTCAAAGTGATTTCCGT
 GGACCCCTGCTGGGGACCTGGTCTCAATTCTGAAGTTCCTCAATGGCTTAAAGGACTGCTGGCCTTC
 CTGGTGAAGCCTCTGCTGCCAAGGCTGTGAGCTTCTCAGCAACATGAAGTCTCGTTCCGCTGGA
 TCTGGAACTGCAGCACGAGATCGAGGTGTACCGCAAACCGTATTGCCAGTGGAGGGCGCTGGACCT
 GGATGTGGTGCTGACCCCATGCTGGCCCTGCTGGAATTGAATGCCCCAGGCAGGGCCACAGGGGCC
 GTCAGCTACACTATGCTGTACAACGCTGGACTTCCCTGCAGGGGTGGTGCCTGTACCACGGTACTG
 CTGAGGACGAGGCCAGATGGAACATTACAGGGGCTACTTTGGGATATCTGGGACAAGATGCTGCAGAA
 GGGCATGAAGAAGAGTGTGGGCTGCCGTTGGCGTGCAGTGTGTGGCTTCCCTGGCAAGAAGAGTTG
 TGCTGCGGTTTATGCGGGAGGTGGAGCGACTGATGACCCCTGAAAAGCAGTCATCC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210331 representing NM_001441
 Red=Cloning site Green=Tags(s)

MVQYELWAALPGASGVALACCFVAAAVLRWSGRRTARGAVVRARQRQRAGLENMDRAAQFRLLQNPDL
 SEALLALPLPQLVQKLHSRELAPEAVLFTYVKGAWVKNKGTNCVTSYLADCETQLSQAPRQGLLYGVPVS
 LKECFYKQDSTLGLSLNEGVAECDVSVVHVLKLGAVPFVHTNVPQSMFSYDCSNPLFGQTVNPKWS
 SKSPGGSSGEGALIGSGGSPLGLGTDIGGSIRFPSSFCGICGLKPTGNRLSKSGLKGCVYQEA
 VRLSVGPMARDVESLALCLRALLCEDMFRLDPTVPPLPFREEVYTSSQPLRVGYETDNYTMPSPAMRR
 AVLETKQSLEAAGHTLVPFLPSNIPHAETLSTGGLFSDGGHTFLQNFKGFVDPCLGDLVSIKLPQW
 LKGLLAF LVKPLLPRLSAFLSNMKSRSAGKLWELQHEIEVYRKTVIAQWRALDLDVVLTPMLAPAL
 DLNAPGRATGAVSYTMLYNCLDFPAGVVPVTTVTAEDEAQMELYRQYFGDIWDKMLQKGMKKS
 VGLPVAVQCVALPWQEEELCLRFMREVERLMTPEKQSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3244_g07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_001441

ORF Size: 1737 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

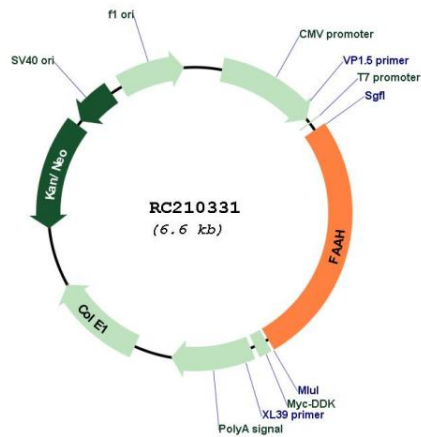
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

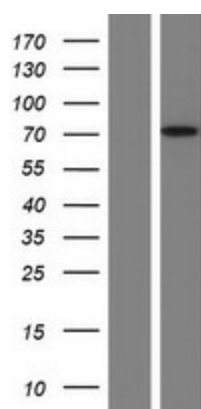
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

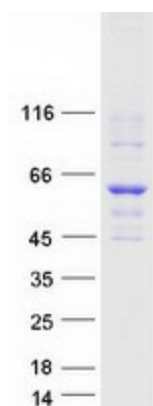
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001441.2</u>
RefSeq Size:	2063 bp
RefSeq ORF:	1740 bp
Locus ID:	2166
UniProt ID:	<u>O00519</u>
Cytogenetics:	1p33
Domains:	Amidase
Protein Families:	Druggable Genome, Transmembrane
MW:	62.9 kDa
Gene Summary:	This gene encodes a protein that is responsible for the hydrolysis of a number of primary and secondary fatty acid amides, including the neuromodulatory compounds anandamide and oleamide. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RC210331



Western blot validation of overexpression lysate (Cat# [LY419937]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210331 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAAH protein (Cat# [TP310331]). The protein was produced from HEK293T cells transfected with FAAH cDNA clone (Cat# RC210331) using MegaTran 2.0 (Cat# [TT210002]).