

Product datasheet for **RG210331**

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:	TurboGFP
Symbol:	FAAH1
Synonyms:	FAAH-1; PSAB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210331 representing NM_001441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCAGTACGAGCTGTGGGCCGCTGCCTGGCGCCTCCGGGTTCGCCCTGGCTGCTGCTTCTGTG
 CGCGGCCGCTGGCCCTGCCTGCTCGGGCGCCGACGGCGCGGGCGCGGTGGTCCGGGCGCAGACAGAG
 GCAGCGAGCGGGCCTGGAGAACATGGACAGGGCGCGCAGCGCTTCCGGTCCAGAACCCAGACCTGGAC
 TCAGAGCGCTGCTAGCCCTGCCCTGCCTCAGCTGGTGCAGAAGTTACACAGTAGAGAGCTGGCCCTG
 AGGCCGTGCTTTCACCTATGTGGAAAGGCTGGGAAGTGAACAAAGGGACCAACTGTGTGACCTCCTA
 TCTGGCTGACTGTGAGACTCAGCTGTCTCAGGCCCAAGGCAGGGCCTGCTCTATGGCGTCCCTGTGAGC
 CTCAAGGAGTGCTTACCTACAAGGGCCAGGACTCCACGCTGGGCTTGGCCTGAATGAAGGGTGCAGG
 CGGAGTGCACAGCGTAGTGGTGCATGTCTGAAGCTGCAGGGTCCGCTGCCCTTCGTGCACACCAATGT
 TCCACAGTCCATGTTTCACTATGACTGCAGTAACCCCTCTTTGGCCAGACCGTGAACCCATGGAAGTCC
 TCCAAAAGCCAGGGGGCTCCTCAGGGGTGAAGGGCCCTCATCGGGTCTGGAGGCTCCCCCTGGGCT
 TAGGCACTGATATCGGAGGCAGCATCCGCTTCCCTCCTCTTCTGCGGCATCTGCGGCCTCAAGCCAC
 AGGGAACCGCCTCAGCAAGAGTGGCCTGAAGGGCTGTGTCTATGGACAGGAGGAGTGCCTCTCCGCTG
 GGCCCATGGCCCGGACGTGGAGAGCCTGGCACTGTGCTGCGAGCCCTGCTGTGCGAGGACATGTTCC
 GCTTGGACCCACTGTGCTCCCTTGCCTTCCAGAGAAGAGTCTACACCAGCTCTCAGCCCTGCGTGT
 GGGTACTATGAGACTGACAACATACCATGCCCTCCCGGCCATGAGGCGGGCCGCTGTGGAGACCAAA
 CAGAGCCTTGAGGCTGCGGGGCACACGCTGGTTCCTTCTTCCAAAGCAACATACCCATGCTCTGGAGA
 CCCTGTCAACAGGTGGCTCTTCACTGATGGTGGCCACACCTTCTACAGAACTCAAAGGTGATTTTCGT
 GGACCCCTGCCTGGGGACCTGGTCTCAATTCTGAAGCTTCCCAATGGCTTAAAGGACTGCTGGCCTTC
 CTGGTGAAGCCTCTGCTGCCAAGGCTGTGAGCTTCTCAGCAACATGAAGTCTCGTTCCGCTGGAAAAC
 TCTGGAACTGCAGCACGAGATCGAGGTGTACCGCAAAACCGTATTGCCAGTGGAGGGCCTGGACCT
 GGATGTGGTGTGACCCCATGCTGGCCCTGCTGGAATTGAATGCCAGGCAGGGCCACAGGGGCC
 GTCAGCTACACTATGCTGTACAACGCTGGACTTCCCTGCAGGGGTGGTGCCTGTACCACGGTACTG
 CTGAGGACGAGGCCAGATGGAACATTACAGGGCTACTTTGGGATATCTGGGACAAGATGCTGCAGAA
 GGGCATGAAGAAGAGTGTGGGCTGCCGTTGCCGTGCAGTGTGTGGCTCTGCCCTGGCAAGAAGAGTTG
 TGCTCGGTTTATGCGGGAGGTGGAGCGACTGATGACCCTGAAAAGCAGTCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210331 representing NM_001441
 Red=Cloning site Green=Tags(s)

MVQYELWAALPGASGVALACCFVAAAVLRWSGRRRTARGAVVRARQRQRAGLENMDRAAQRFLQNPDL
 SEALLALPLPQLVQKLHSRELAPEAVLFTYVYKAWEVNKGNTNCVTSYLADCETQLSQAPRQLLYGVPVS
 LKECFYKQDSTLGLSLNEGVPACDSVVVHVLKQGAVPFVHTNVPQSMFSYDCSNPLFGQTVNPKWS
 SKSPGSSGGEGALIGSGGSPLGLGTDIGGSIRFPSSFCGICGLKPTGNRLSKSGLKGCYVYQEA
 VRLSVGPMARDVESLALCLRALLCEDMFRLDPTVPPLPFREEVYTSSQPLRVGYETDNYTMPSPAMRRAVLETK
 QSLEAAGHTLVPFLPSNIPHAETLSTGGLFSDGGHTFLQNFKGFVDPCLGDLVSILKLPQWLKGLLAF
 LKPLLPRLSAFLSNMKSRSAGKLWELQHEIEVYRKTVIAQWRALDLVVLPMLAPALDLNAPGRATGA
 VSYTMLYNCLDFPAGVVPVTTVTAEDEAQMELYRGYFGDIWDKMLQKGMKKS
 VGLPVAVQCVALPWQEELCLRFRMREVERLMTPEKQSS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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](#)

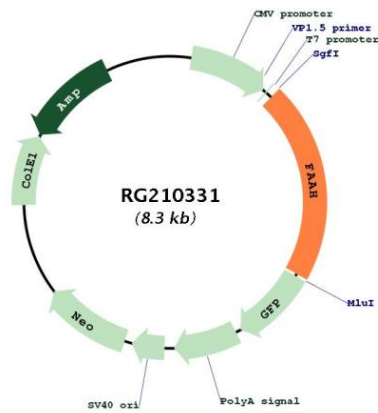
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

RefSeq: [NM_001441.2](#)
RefSeq Size: 2063 bp
RefSeq ORF: 1740 bp
Locus ID: 2166
UniProt ID: [O00519](#)
Cytogenetics: 1p33
Domains: Amidase
Protein Families: Druggable Genome, Transmembrane
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 RG210331