

Product datasheet for **RG200388**

Fumarylacetoacetate hydrolase (FAH) (NM_000137) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Fumarylacetoacetate hydrolase (FAH) (NM_000137) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Fumarylacetoacetate hydrolase |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG200388 representing NM_000137 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTTCATCCCGGTGGCCGAGGATTCCGACTTCCCCATCCACAACCTGCCCTACGGCGTCTTCTCGA
CCAGAGGGCAGCCCAAGACCGAGGATAGGTGTGGCCATTGGCGACCAGATCCTGGACCTCAGCATCATCAA
GCACCTCTTTACTGGTCTGTCTCTCCAAACACCAGGATGTCTTCAATCAGCCTACACTCAACAGCTTC
ATGGGCCTGGGTGAGCTGCCTGGAAGGAGGCGAGAGTGTCTTGCAGAACTTGCTGTCTGTGAGCCAAG
CCAGGCTCAGAGATGACACCGAACTTCGGAAGTGTGCATTCATCTCCAGGCTTCTGCCAGATGCACCT
TCCAGCCACCATAGGAGACTACACAGACTTCTATTCTCTCGGCAGCATGCTACCAACGTCGGAATCATG
TTCAGGGACAAGGAGAATGCGTTGATGCCAAATTGGCTGCACTTACCAGTGGGCTACCATGGCCGTGCCT
CCTCTGTCTGGTGTCTGGCACCCCAATCCGAAGGCCATGGGACAGATGAAACCTGATGACTCTAAGCC
TCCCGTATATGGTGCCTGCAAGCTCTTGGACATGGAGCTGGAAATGGCTTTTTTTGTAGGCCCTGGAAAC
AGATTGGGAGAGCCGATCCCAATTTCCAAGGCCATGAGCACATTTTGGAAATGGTCTTATGAACGACT
GGAGTGCACGAGACATTCAGAAGTGGGAGTATGTCCTCTCGGGCCATTCCTTGGGAAGAGTTTTGGGAC
CACTGTCTCTCCGTGGTGGTGGCCATGGATGCTCTCATGCCCTTGTGTGCCAACCCGAAGCAGGAC
CCCAGGCCCTGCCGTATCTGTGCCATGACGAGCCCTACACATTTGACATCAACCTCTCTGTAACTGA
AAGGAGAAGGAATGAGCCAGGCGCTACCATATGCAAGTCCAATTTAAGTACATGACTGGACGATGCT
GCAGCAGCTCACTCAACTCTGTCAACGGCTGCAACCTGCGGCCGGGGACCTCCTGGCTTCTGGGACC
ATCAGCGGGCCGGAGCCAGAAACTTCGGCTCCATGTTGGAAGTGTGCTGGAAGGGAACGAAGCCCATAG
ACCTGGGGAAATGGTCAAGCAGGAAGTTTCTGTGGACGGGATGAAGTCATCAACAGGGTACTGCCA
GGGGATGTTACCGCATCGCTTTGGCCAGTGTGCTGGAAGTGTGCTGCTGCTCTCTCTGCCATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200388 representing NM_000137
Red=Cloning site Green=Tags(s)

```
MSFIPVAEDSDFPIHNLPGYVFSTRGDPRPRIGVAIGDQILDLSIIKHLFTGPVLSKHQDVFNQPTLNSF
MGLGQAAWKEARVFLQNLVSVQARLRDDTELKCAFISQASATMHLPATIGDYTDYFSSRQHATNVGIM
FRDKENALMPNWLHLPVGYHGRASSVVVSGTPIRRPMGQMKPDDSKPPVYGACKLLDMELEMAFFVGPNG
RLGEPPIISKAHEHIFGMVLMNDWSARDIQKWEYVPLGPFLGKSF GTTVSPWVVPMDALMPFAVPNPKQD
PRPLPYLCHDEPYTFDINLSVNLKGEGMSQAATICKSNFKYMYWMLQQLTHHSVNGCNLRPGDLLASGT
ISGPEPENFGSMLELSWKGTKPIDLGNQTRKFLLDGDEVIIITGYCQGDGYRIGFGQCAGKVL PALLPS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_000137

ORF Size: 1257 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_000137.4](#)

RefSeq Size: 1447 bp

RefSeq ORF: 1260 bp

Locus ID: 2184

UniProt ID: [P16930](#)

Cytogenetics: 15q25.1

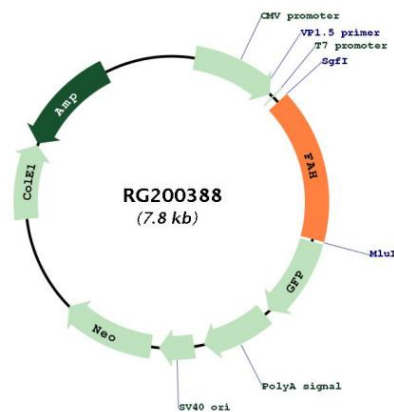
Domains: FAA_hydrolase

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Tyrosine metabolism

Gene Summary: This gene encodes the last enzyme in the tyrosine catabolism pathway. FAH deficiency is associated with Type 1 hereditary tyrosinemia (HT). [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200388