

## Product datasheet for SC120070

### Fumarylacetoacetate hydrolase (FAH) (NM\_000137) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fumarylacetoacetate hydrolase (FAH) (NM_000137) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fumarylacetoacetate hydrolase
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120070 sequence for NM_000137 edited (data generated by NextGen Sequencing)

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ATGTCCTTCATCCCGGTGGCCGAGGATTCCGACTTCCCCATCCACAACCTGCCCTACGGC
GTCTTCTCGACCAGAGGCGACCCAAGACCGAGGATAGGTGTGGCCATTGGCGACCAGATC
CTGGACCTCAGCATCATCAAGCACCTCTTTACTGGTCCTGTCTCTCAAACACCAGGAT
GTCTTCAATCAGCCTACACTCAACAGCTTCATGGGCTGGGTGAGGCTGCCTGGAAGGAG
GCGAGAGTGTTCTTGCAAACTTGTCTCTGTGAGCCAAGCCAGGCTCAGAGATGACACC
GAACTTCGGAAGTGTGCATTTCATCTCCAGGCTTCTGCCACGATGCACCTTCCAGCCACC
ATAGGAGACTACACAGACTTCTATTCTCTCGGCAGCATGCTACCAACGTCGGAATCATG
TTCAGGGACAAGGAGAATGCGTTGATGCCAAATTGGCTGCACTTACCAGTGGGCTACCAT
GGCCGTGCCTCCTGTGCTGGTGTCTGGCACCCCAATCCGAAGGCCATGGGACAGATG
AAACCTGATGACTCTAAGCCTCCCGTATATGGTGCCTGCAAGCTTTGGACATGGAGCTG
GAAATGGCTTTTTTTGTAGGCCCTGAAAACAGATTGGGAGAGCCGATCCCCATTTCCAAG
GCCCATGAGCACATTTTTGGAATGGTCCTTATGAACGACTGGAGTGCACGAGACATTCAG
AAGTGGGAGTATGTCCCTCTCGGGCCATTCCTTGGGAAGAGTTTTGGGACCACTGTCTCT
CCGTGGGTGGTGGCCATGGATGCTCTCATGCCCTTTGCTGTGCCAACCCGAAGCAGGAC
CCCAGGCCCTGCCGTATCTGTGCCATGACGAGCCCTACACATTTGACATCAACCTCTCT
GTAAACCTGAAAGGAGAAGGAATGAGCCAGGCGGCTACCATATGCAAGTCCAATTTAAAG
TACATGTACTGGACGATGCTGCAGCAGCTCACTCACTCTGTCAACGGCTGCAACCTG
CGGCCGGGGACCTCCTGGCTTCTGGGACCATCAGCGGGCCGGAGCCAGAAAACCTCGGC
TCCATGTTGGAAGTGTCTGTGGAAGGGAACGAAGCCATAGACCTGGGGAATGGTCAGACC
AGGAAGTTTCTGCTGGACGGGGATGAAGTCATCATAACAGGGTACTGCCAGGGGGATGGT
TACCGCATCGGCTTTGGCCAGTGTGCTGAAAAGTGTGCTGCTGCTCTCCTGCCATCATGA

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Clone variation with respect to NM\_000137.2  
267 g=>c



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000137 unedited  
 TTTTGTAAATCCGACTTACTATAGNNGCGCGCAATTCGGCACGAGGCCGACGCCGT  
 GCCGGGTGCTCTTCAGCATGTCTTCATCCCGGTGGCCGAGGATTCGACTTCCCATCC  
 ACAACCTGCCCTACGGCGTCTTCTCGACCAGAGGGCAGCCAAAGACCGAGGATAGGTGTGG  
 CCATTGGCGACCAGATCCTGGACCTCAGCATCATCAAGCACCTCTTTACTGGTCTGTCC  
 TCTCCAAACACCAGGATGTCTTCAATCAGCCTACACTCAACAGCTTCATGGGCCTGGTCA  
 AGGCTGCCTGGAAGGAGGCGAGAGTGTCTTGCAGAACTTGCTCTCTGTGAGCCAAGCCA  
 GGCTCAGAGATGACACCGAACTTCGGAAGTGTGCATTCTCCAGGCTTCTGCCACGA  
 TGCACCTTCCAGCCACCATAGGAGACTACACAGACTTCTATTCTCTCGGCAGCATGCTA  
 CCAACGTGGAATCATGTTCAAGGACAAGGAGAATGCGTTGATGCCAAATTGGCTGCACT  
 TACCAGTGGGCTACCATGGCCGTGCCTCCTCTGTCTGGTGTCTGGCACCCCAATCCGAA  
 GGCCCATGGGACAGATGAAACCTGATGACTCTAAGCCTCCCGTATATGGTGCCTGCAAGC  
 TCCTTGGACATGGAGCTGGAATGGCTTTTTTTGTACGCCCTGAAACAGATTGGGAGAG  
 CCGATCCCATTCCAAGGCCATGAGCACATTCTTGGCATGGGCCCTCATGAACGATTG  
 AAGTGCACGAGACATTCAGAAGTNGAGTATGTCCCTCTCGGGCCATCCTTGGGAAGAG  
 CTTTGGGACCCCTGTCTCTCCGTGGGGGGGCCATGGTCTCTATGCACCTTTTGGGG  
 CCAACC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000137 unedited  
 CCGCGGGCCGATTTTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTCGGCAGTGCAGGCCTC  
 AAAACAATGGCTTTATTTGTCAGTGTGGCGGACCACGCCTACAGCCCGAGGGAGGAC  
 CCCAGTTACAGGTTGAAACAAAGCTTGAGCCCTTTGTTCCAGAAGAGCAGAGAAAATC  
 TCATGATGGCAGGAGAGCAGGCATCACTTTTCCAGCACACTGGCCAAAGCCGATGCGGTA  
 ACCATCCCCTGGCAGTACCCTGTTATGATGACTTTATCCCGTTCAGCAGAAACTTCTC  
 GTCTGACCACTTCCCATGTCTATGGGCTTATTTCCCTTCCACGACCCCTCCTACCTGGT  
 ACCCCAATCTCTCGGCCTCCGCCACCTTCATGGCCCCACAAATCATCTCGCTTCCCTTA  
 CCTTCGTCCACACACCGTCGACCCCTCCGGTACCGCCCTTCTCTCCCGCTCCTCCTTTC  
 TAAATCTACCCAATATAAACCCCTATGCGTCTCTTTCCCGTTTTTCCCGCTTCCCCT  
 CTCTACGCTTCCACCTCACCTCTTATCCTCCTTCCCCCATTTTTTCCCGTCTTCTCC  
 CCCTCTTCCCCTCCTTTTTTTATCACCTTCACTAACTACTCCCCCTCCCTCCTT  
 CCTTATTTCTCGTAATTCTTCCCCTCCCTCGTTCCTTCCCCCTTTCTTATTTTAT  
 AATTGCTTTTCTCCACCGCTTCTTCCCCCTTCCCCCCCCCCCCCCCCACACCAT  
 CGACCCCTACATTTCCATTGTACCTTCCACTTCCACCTTTTCTATTTTCCCTTCCGC  
 CCTTTTCTCTTTTTATTTTTTTCATCCTTCTTTTCACTCACTTTCCATCTATTTTCC  
 CTCTCCCCCTGTTATATTTACATCCTCATCCTCCCCTCCCCTTCTCATTTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000137

**Insert Size:**

1500 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_000137.1](#), [NP\\_000128.1](#)

**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]