

## Product datasheet for SC125310

### FECH (NM\_000140) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FECH (NM_000140) Human Untagged Clone
Tag:	Tag Free
Symbol:	FECH
Synonyms:	EPP; EPP1; FCE
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125310 sequence for NM_000140 edited (data generated by NextGen Sequencing)

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ATGCGTTCACTCGGCGCAAACATGGCTGCGGCCCTGCGCGCCGCGGGCGTCTGCTCCGC
GATCCGCTGGCATCCAGCAGCTGGAGGGTCTGTGACCCATGGAGGTGGAAGTCAGGTGCA
GCTGCAGCGGCCGTACCACAGAAAACAGCCAGCATGCCAGGGTGCAAAACCTCAAGTT
CAACCGCAGAAGAGGAAGCCGAAAACCTGGAATATTAATGCTAAACATGGGAGGCCCTGAA
ACTCTTGAGATGTTACGACTTCTTCTGAGACTCTTCTTGACCGAGACCTCATGACA
CTTCTATTGAGAAAGCTGGCACCATTATCGCCAAACGCCGAACCCCAAGATTCAA
GAGCAGTACCGCAGGATTGGAGGCGGATCCCCATCAAGATATGGACTTCCAAGCAGGGA
GAGGGCATGGTGAAGCTGCTGGATGAATTGTCCCCAACACAGCCCTCACAAATACTAT
ATTGGATTTCCGTACGTCCATCCTTTAACAGAAGAAGCAATTGAAGAGATGGAGAGAGAT
GGCCTAGAAAAGGCTATTGCTTTACACAGTATCCACAGTACAGCTGCTCCACCACAGGC
AGCAGCTTAAATGCCATTTACAGATACTATAATCAAGTGGGACGGAAGCCACGATGAAG
TGGAGCACTATTGACAGGTGGCCACACATCACCTCCTCATCCAGTGCTTTGCAGATCAT
ATTCTAAAGGAAGTGGACATTTTCCACTTGAGAAGAGAAGCGAGGTGGTCACTTCTGTTT
TCTGCTCACTCACTGCCCATGTCTGTGGTCAACAGAGGCGACCCATATCCTCAGGAGGTA
AGCGCCACTGTCCAAAAGTCAATGGAAAGGCTGGAGTACTGCAACCCCTACCGACTGGTG
TGGCAATCCAAGTTGGTCCAATGCCCTGGTGGTCCCTCAAACAGACGAATCTATCAA
GGCTTTTGTGAGAGGGGAGGAAGAATATCCTCTTGGTTCCGATAGCATTACCAGTGAC
CATATTGAAACGCTGTATGAGCTGGACATCGAGTACTCTCAAGTTTTAGCCAAGGAGTGT
GGAGTTGAAAACATCAGAAGAGCTGAGTCTTAAATGAAATCCATTGTTCTCTAAGGCC
CTGGCCGACTTGGTGCATTACACATCCAGTCAAACGAGCTGTGTTCCAAGCAGCTGACC
CTGAGCTGTCCGCTCTGTGTCAATCCTGTCTGCAGGGAGACTAAATCCTTCTTACCAGC
CAGCAGCTGTGA

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Clone variation with respect to NM\_000140.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000140 unedited  
 TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCGTGCCGAAT  
 TCGGCACGAGGGGAGCCCGGACTCGGGCCGAGGCTGCCAGGCAATGCGTTCCTCGGCG  
 CAAACATGGCTGCGGCCCTGCGCGCCGCGGGCGTCTCTGCCGATCCGCTGGCATCCA  
 GCAGCTGGAGGGTCTGTAGCCATGGAGGTGGAAGTCAGTGCAGCTGCAGCGGCCGTCA  
 CCACAGAAACAGCCAGCATGCCAGGGTGCAAAACCTCAAGTTCAACCCGAGAAGAGGA  
 AGCCGAAAACGGAAATTAATGCTAAACATGGGAGGCCCTGAAACTCTTGGAGATGTTT  
 ACGACTTCTTCTGAGACTCTTCTTGGACCGAGACCTCATGACACTTCTATTGAGAATA  
 AGCTGGCACCATTCATCGCCAAACGCCGAACCCCAAGATTCAAGAGCAGTACCGCAGGA  
 TTGGAGGCGGATCCCCATCAAGATATGGACTTCCAAGCAGGGAGAGGGCATGGTGAAGC  
 TGCTGGATGAATTGTCCCCAACACAGCCCTCACAAATACTATATTGGATTTTCGTACG  
 TCCATCCTTTAACAGAAGAAGCAATTGAAGAGATGGAGAGAGATGGCCTAGAAAGGGCTA  
 TTGCTNTCACACAGTATCCACAGTACAGCTGCTCCACCACAGGCAGCAGCTTAAATGCCA  
 TTTACAGATACTATAATCAAGTGGGACGGAAGCCACGATGAAGTGGAGCACTATTGACA  
 GGTGGGCCACACATNNACTNCTCATNCAGTGTCTTGCAGATCATATTCTAAAGAAGTGA  
 CATTTTCACTTGAGAGAGAAGCGAGGTGTCATTCTGTTTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000140 unedited  
 CTATGGCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGACATTATTTCT  
 ATATTTTTAGAAACACTTTTCACTCATAAATCCAAGGTGACAATGGCATTAAATGGCATT  
 AAAAATATCTACAGGAAAGGACTACCACGAAATACAATATTATGATAACAGTTATTGCAT  
 TAAAGTGGTTACTTTTCTGTATTCTTACATGTCCATTGTACTATACTATTTTTATA  
 ATAAAAATCGTAAATTAAGAAAGAATTCAAGCAAAGTATTGTTGACTTTATAAAATAAT  
 TCTTAAACAAAATGTTTCAGAAAGAAGGCATTCAACTAAGATAGAGAAGATGCTGGATGGA  
 GAGGCTTGCAAGGTCCCGGGAGGAGCTCCAGGGTGAAGCTCATCACTAGCCTTTCCAGCA  
 GCACTGTCCCTGGAGACCAGAAGCAGTGGGAGCCCTTCCCTGTGGCACCCAGGACTCCC  
 ACCAAGGCACGTATCATGAACACTGTACTTGTACACGTTTATTACCCTTGGGTGTATGGG  
 GAATCTAAGAGCACCTCTGAAATCCATACTTGATTCTTTTTTACATTGAGGAAAGTGAGA  
 TTCACACACAAAATACCAAGATGACCAATGAATGGTGGCCTCGCTGGCAAAAGCAGCCATT  
 GCAGGTAACCAAAATTGCCTCCCTAGCATTCTGTAACCCATGGGCTTAAGGAAAAATTAAG  
 TAACATTTCTTTTTCAAATTCATTTCAAAAACACTCACTGTGTTTCAATTTTAAAAACAGCAA  
 CTATATTGCCCGAAACTAAACAGATTTTCACTTCACTGCCAGCCACAGAGGGGACTCTC  
 CCTACCCTTTAAGAAGGGTTTTGGCCAATAAACCCAAAAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000140

**Insert Size:**

2500 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\\_000140.2](#), [NP\\_000131.2](#)

**RefSeq Size:** 3817 bp

**RefSeq ORF:** 1272 bp

**Locus ID:** 2235

**UniProt ID:** [P22830](#)

**Cytogenetics:** 18q21.31

**Domains:** Ferrochelatase

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Porphyrin and chlorophyll metabolism

**Gene Summary:** The protein encoded by this gene is localized to the mitochondrion, where it catalyzes the insertion of the ferrous form of iron into protoporphyrin IX in the heme synthesis pathway. Mutations in this gene are associated with erythropoietic protoporphyria. Two transcript variants encoding different isoforms have been found for this gene. A pseudogene of this gene is found on chromosome 3.[provided by RefSeq, May 2010]  
Transcript Variant: This variant (2) uses an alternate in-frame donor splice site at one of the internal coding exons, compared to transcript variant 1. The encoded isoform (b) is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.