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Product datasheet for SC301677

FECH (NM_001012515) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FECH (NM_001012515) Human Untagged Clone
Tag:	Tag Free
Symbol:	FECH
Synonyms:	EPP; EPP1; FCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC301677 representing NM_001012515.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGTTCACTCGGCGCAAACATGGCTGCGGCCCTGCGCGCCGCGGGCGTCCTGCTCCGCGATCCGCTG
GCATCCAGCAGCTGGAGGGTCTGTCAGCCATGGAGGTGGAAGTCAGGTGCAGCTGCAGCGGCCGTCACC
ACAGAAACAGCCCAGCATGCCCAGGGTGCAAAACCTCAAGTTCAACCGCAGAAGAGGTATGAGTCTAAC
ATCAGGAAGCCGAAAACTGGAATATTAATGCTAAACATGGGAGGCCCTGAAACTCTTGGAGATGTTCAC
GACTTCCTTCTGAGACTCTTCTTGGACCGAGACCTCATGACACTTCCTATTCAGAATAAGCTGGCACCA
TTCATCGCCAAACGCCGAACCCCCAAGATTCAAGAGCAGTACCGCAGGATTGGAGGCGGATCCCCCATC
AAGATATGGACTTCCAAGCAGGGAGAGGGCATGGTGAAGCTGCTGGATGAATTGTCCCCCAACACAGCC
CCTCACAAATACTATATTGGATTTCGGTACGTCCATCCTTTAACAGAAGAAGCAATTGAAGAGATGGAG
AGAGATGGCCTAGAAAGGGCTATTGCTTTCACACAGTATCCACAGTACAGCTGCTCCACCACAGGCAGC
AGCTTAAATGCCATTTACAGATACTATAATCAAGTGGGACGGAAGCCCACGATGAAGTGGAGCACTATT
GACAGGTGGCCCACACATCACCTCCTCATCCAGTGCTTTGCAGATCATATTCTAAAGGAACTGGACCAT
TTTCCACTTGAGAAGAGAAGCGAGGTGGTCATTCTGTTTTCTGCTCACTCACTGCCCATGTCTGTGGTC
AACAGAGGCGACCCATATCCTCAGGAGGTAAGCGCCACTGTCCAAAAAGTCATGGAAAGGCTGGAGTAC
TGCAACCCCTACCGACTGGTGTGGCAATCCAAGGTTGGTCCAATGCCCTGGTTGGGTCCTCAAACAGAC
GAATCTATCAAAGGGCTTTGTGAGAGGGGGAGGAAGAATATCCTCTTGGTTCCGATAGCATTTACCAGT
GACCATATTGAAACGCTGTATGAGCTGGACATCGAGTACTCTCAAGTTTTAGCCAAGGAGTGTGGAGTT
GAAAACATCAGAAGAGCTGAGTCTCTTAATGGAAATCCATTGTTCTCTAAGGCCCTGGCCGACTTGGTG
CATTCACACATCCAGTCAAACGAGCTGTGTTCCAAGCAGCTGACCCTGAGCTGTCCGCTCTGTGTCAAT
CCTGTCTGCAGGGAGACTAAATCCTTCTTCACCAGCCAGCAGCTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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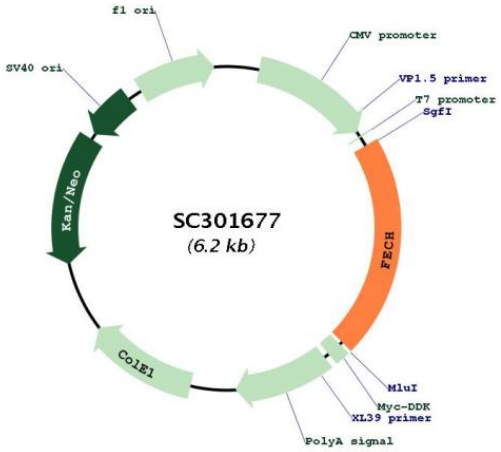
Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001012515

Insert Size: 1290 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001012515.2
RefSeq Size:	7295 bp
RefSeq ORF:	1290 bp
Locus ID:	2235
UniProt ID:	P22830
Cytogenetics:	18q21.31
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Porphyrin and chlorophyll metabolism
MW:	48.6 kDa
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 (1) encodes the longer 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.