

Product datasheet for **RC215223**

FECH (NM_001012515) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RC215223 representing NM_001012515
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGTTCCTACTCGGCGCAAACATGGCTGCGGCCCTGCGCGCCGCGGGCGTCTGCTCCGCGATCCGCTGG
 CATCCAGCAGCTGGAGGGTCTGTGAGCCATGGAGGTGGAAGTCAAGTGCAGCTGCAGCGCCGCTCACCAC
 AGAAACAGCCAGCATGCCAGGGTGCAAAACCTCAAGTTCAACCGCAGAAGAGGTATGAGTCTAACATC
 AGGAAGCCGAAAACCTGGAATATTAATGCTAAACATGGGAGGCCCTGAAACTCTTGAGATGTTCCAGACT
 TCCTTCTGAGACTCTTCTGGACCGAGACCTCATGACACTTCTATTGAGAATAAGCTGGCACCATTTCAT
 CGCCAAACGCCGAACCCCAAGATTCAAGAGCAGTACCGCAGGATTGGAGGCGGATCCCCATCAAGATA
 TGGACTTCAAGCAGGGAGAGGGCATGGTGAAGCTGCTGGATGAATTGCCCCAACACAGCCCTCACA
 AATACTATATTGGATTCGGTACGTCCATCCTTTAACAGAAGAAGCAATTGAAGAGATGGAGAGAGATGG
 CCTAGAAAAGGGCTATTGCTTTACACAGTATCCACAGTACAGCTGCTCCACCACAGCAGCAGCTTAAAT
 GCCATTTACAGATACTATAATCAAGTGGGACGGAAGCCACGATGAAGTGGAGCACTATTGACAGGTGGC
 CCACACATCACCTCCTCATCCAGTGCTTTGCGATCATATTCTAAAGGAAGTGGACCATTTTCCACTTGA
 GAAGAGAAGCGAGGTGGTCACTTCTGTTTCTGCTCACTCACTGCCATGTCTGTGGTCAACAGAGGGCAG
 CCATATCCTCAGGAGGTAAGCGCCACTGTCAAAAAGTCAAGAAAGGCTGGAGTACTGCAACCCCTACC
 GACTGGTGTGGCAATCCAAGGTTGGTCCAATGCCCTGGTTGGGTCCTCAAACAGACGAATCTATCAAAGG
 GCTTTGTGAGAGGGGGAGGAAGAATATCCTCTTGGTCCGATAGCATTACCAGTGACCATTGAAACG
 CTGTATGAGCTGGACATCGAGTACTCTCAAGTTTTAGCCAAGGAGTGTGGAGTTGAAAACATCAGAAGAG
 CTGAGTCTCTTAATGAAAATCCATTGTTCTCTAAGGCCCTGGCCGACTTGGTGCATTCACACATCCAGTC
 AAACGAGCTGTGTTCCAAGCAGCTGACCCTGAGCTGTCCGCTCTGTGTCAATCCTGTCTGAGGGAGACT
 AATCCTTCTTACCAGCCAGCAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215223 representing NM_001012515
 Red=Cloning site Green=Tags(s)

MRSLGANMAAALRAAGVLLRDPLASSSWRVCQPWRWKSAAAAAVTTETAQHAQGAQPQVQPKRYESNI
 RKPKTGILMLNMGGPETLGDVHDFLLRLFLDRDLMTLP IQNKLAPFIAKRRTPKIQEQYRRIGGGSPIKI
 WTSKQGEQGMVLLDELSPNTAPHKYYIGFRYVHPL TEEAIEEMERDGLERAIAFTQYPQYSCSTTGSSLN
 AIYRYYNQVGRKPTMKWSTIDRWPTHLLIQCFADHILKELDFPLEKRSEVVILFSAHSLPMSVNVNRGD
 PYPQEVSATVQKVMERLEYCNPYRLVWQSKVGPMPWLGPTDESIGLKERGRKNILLVPIAFTSDHIET
 LYELDIEYSQVLAKECGVENIRRAESLNGNPLFSKALADLVHSHIQSNELCSKQLTLCPLCVNPVCRET
 KSFFTSQQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8059_c07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001012515

ORF Size: 1287 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.

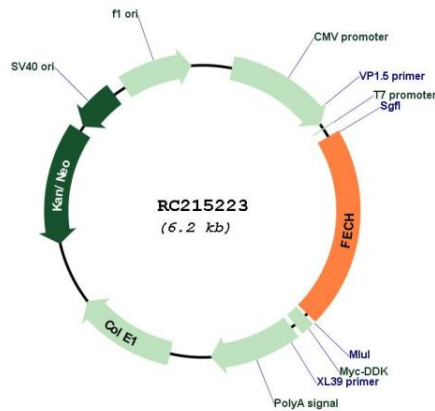
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

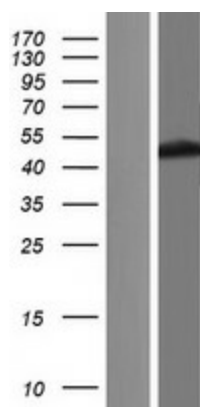
RefSeq: [NM_001012515.4](#)

RefSeq Size:	3835 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:	48.63 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]

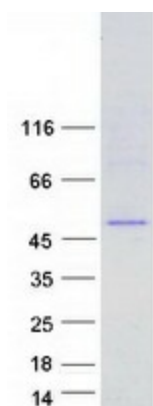
Product images:



Circular map for RC215223



Western blot validation of overexpression lysate (Cat# [LY422881]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215223 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FECH protein (Cat# [TP315223]). The protein was produced from HEK293T cells transfected with FECH cDNA clone (Cat# RC215223) using MegaTran 2.0 (Cat# [TT210002]).