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Product datasheet for RC208058

FECH (NM_000140) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FECH (NM_000140) 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:

>RC208058 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGTTCACTCGGCGCAAACATGGCTGCGGCCCTGCGCGCCGCGGGCGTCCTGCTCCGCGATCCGCTGG
CATCCAGCAGCTGGAGGGTCTGTCAGCCATGGAGGTGGAAGTCAGGTGCAGCTGCAGCGGCCGTCACCAC
AGAAACAGCCCAGCATGCCCAGGGTGCAAAACCTCAAGTTCAACCGCAGAAGAGGAAGCCGAAAACTGGA
ATATTAATGCTAAACATGGGAGGCCCTGAAACTCTTGGAGATGTTCACGACTTCCTTCTGAGACTCTTCT
TGGACCGAGACCTCATGACACTTCCTATTCAGAATAAGCTGGCACCATTCATCGCCAAACGCCGAACCCC
CAAGATTCAAGAGCAGTACCGCAGGATTGGAGGCGGATCCCCCATCAAGATATGGACTTCCAAGCAGGGA
GAGGGCATGGTGAAGCTGCTGGATGAATTGTCCCCCAACACAGCCCCTCACAAATACTATATTGGATTTC
GGTACGTCCATCCTTTAACAGAAGAAGCAATTGAAGAGATGGAGAGAGATGGCCTAGAAAGGGCTATTGC
TTTCACACAGTATCCACAGTACAGCTGCTCCACCACAGGCAGCAGCTTAAATGCCATTTACAGATACTAT
AATCAAGTGGGACGGAAGCCCACGATGAAGTGGAGCACTATTGACAGGTGGCCCACACATCACCTCCTCA
TCCAGTGCTTTGCAGATCATATTCTAAAGGAACTGGACCATTTTCCACTTGAGAAGAGAAGCGAGGTGGT
CATTCTGTTTTCTGCTCACTCACTGCCCATGTCTGTGGTCAACAGAGGCGACCCATATCCTCAGGAGGTA
AGCGCCACTGTCCAAAAAGTCATGGAAAGGCTGGAGTACTGCAACCCCTACCGACTGGTGTGGCAATCCA
AGGTTGGTCCAATGCCCTGGTTGGGTCCTCAAACAGACGAATCTATCAAAGGGCTTTGTGAGAGGGGGAG
GAAGAATATCCTCTTGGTTCCGATAGCATTTACCAGTGACCATATTGAAACGCTGTATGAGCTGGACATC
GAGTACTCTCAAGTTTTAGCCAAGGAGTGTGGAGTTGAAAACATCAGAAGAGCTGAGTCTCTTAATGGAA
ATCCATTGTTCTCTAAGGCCCTGGCCGACTTGGTGCATTCACACATCCAGTCAAACGAGCTGTGTTCCAA
GCAGCTGACCCTGAGCTGTCCGCTCTGTGTCAATCCTGTCTGCAGGGAGACTAAATCCTTCTTCACCAGC
CAGCAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208058 protein sequence
Red=Cloning site Green=Tags(s)

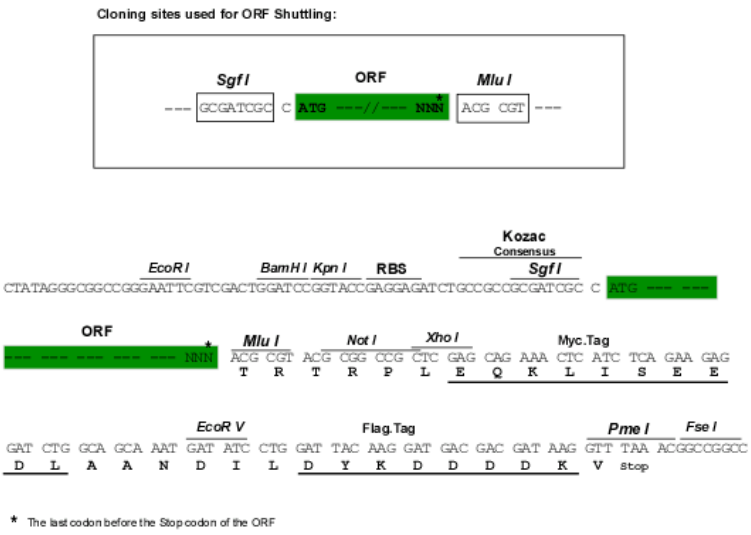
MRSLGANMAAALRAAGVLLRDPLASSSWRVCQPWRWKSGAAAAAVTTETAQHAQGAKPQVQPQKRKPKTG
ILMLNMGGPETLGDVHDFLLRLFLDRDLMTLPIQNKLAPFIAKRRTPKIQEQYRRIGGGSPIKIWTSKQG
EGMVKLLDELSPNTAPHKYYIGFRYVHPLTEEAIEEMERDGLERAIAFTQYPQYSCSTTGSSLNAIYRYY
NQVGRKPTMKWSTIDRWPTHHLLIQCFADHILKELDHFPLEKRSEVVILFSAHSLPMSVVNRGDPYPQEV
SATVQKVMERLEYCNPYRLVWQSKVGPMPWLGPQTDESIKGLCERGRKNILLVPIAFTSDHIETLYELDI
EYSQVLAKECGVENIRRAESLNGNPLFSKALADLVHSHIQSNELCSKQLTLSCPLCVNPVCRETKSFFTS
QQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6147_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000140

ORF Size: 1269 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_000140.5

RefSeq Size: 7277 bp

RefSeq ORF: 1272 bp

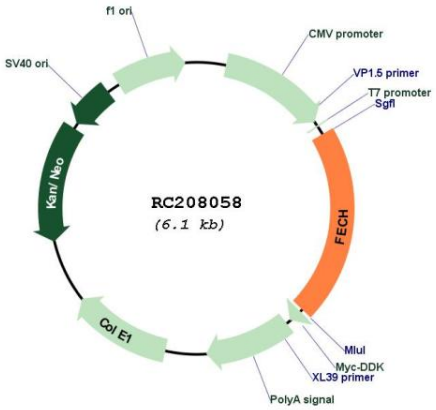
Locus ID: 2235

UniProt ID: P22830

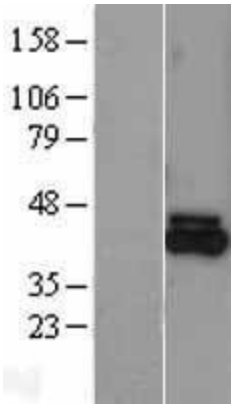
Cytogenetics: 18q21.31

Domains:	Ferrochelatase
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Porphyrin and chlorophyll metabolism
MW:	47.9 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]

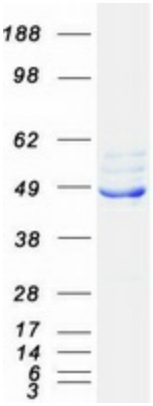
Product images:



Circular map for RC208058



Western blot validation of overexpression lysate (Cat# [LY400049]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208058 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FECH protein (Cat# [TP308058]). The protein was produced from HEK293T cells transfected with FECH cDNA clone (Cat# RC208058) using MegaTran 2.0 (Cat# [TT210002]).