

Product datasheet for **RG215223**

FECH (NM_001012515) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FECH (NM_001012515) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FECH
Synonyms:	EPP; EPP1; FCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215223 representing NM_001012515 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGTTCCTACTCGGCGCAAACATGGCTGCGGCCCTGCGCGCCGCGGGCGTCTGCTCCGCGATCCGCTGG
CATCCAGCAGCTGGAGGGTCTGTGAGCCATGGAGGTGGAAGTCAGGTGCAGCTGCAGCGGCCGTCAACC
AGAAACAGCCCAGCATGCCAGGGTGCAAACCTCAAGTTCAACCGCAGAAGAGGTATGAGTCTAACATC
AGGAAGCCGAAAACCTGGAATATTAATGCTAAACATGGGAGGCCCTGAAACTCTTGGAGATGTTCCAGACT
TCCTTCTGAGACTCTTCTTGGACCGAGACCTCATGACACTTCTTATTGAGATAAGCTGGCACCATTTCAT
CGCCAAACGCGCAACCCCAAGATTCAAGAGCAGTACCGCAGGATTGGAGCGGATCCCCCATCAAGATA
TGGACTTCCAAGCAGGGAGAGGGCATGGTGAAGCTGCTGGATGAATTGTCCCCCAACACAGCCCTCACA
AATACTATATTGGATTTTCGGTACGTCCATCCTTTAACAGAAGAAGCAATTGAAGAGATGGAGAGAGATGG
CCTAGAAAGGGCTATTGCTTTCACACAGTATCCACAGTACAGCTGCTCCACCACAGGCAGCAGCTTAAAT
GCCATTTACAGATACTATAATCAAGTGGGACGGAAGCCACGATGAAGTGGAGCACTATTGACAGGTGGC
CCACACATCACCTCCTCATCCAGTGCTTTGAGATCATATTCTAAAGGAAGTGGACCATTTTCCACTTGA
GAAGAGAAGCGAGGTGGTCATTTCTGTTTCTGCTCACTCACTGCCATGTCTGTGGTCAACAGAGGGCAG
CCATATCCTCAGGAGGTAAAGCCCACTGTCCAAAAGTCAAGAAAGGCTGGAGTACTGCAACCCCTACC
GACTGGTGTGGCAATCCAAGTTGGTCCAATGCCCTGGTTGGTCTCAACAGACGAATCTATCAAAGG
GCTTTGTGAGAGGGGAGGAAGAATATCCTCTTGGTTCGATAGCATTTACCAGTGACCATTGAAACG
CTGTATGAGCTGGACATCGAGTACTCTCAAGTTTTAGCCAAGGAGTGTGGAGTTGAAAACATCAGAAGAG
CTGAGTCTCTTAATGAAATCCATTGTTCTCAAGGCCCTGGCCGACTTGGTGCATTACACATCCAGTC
AAACGAGCTGTTCAGCAGCTGACCCTGAGCTGTCCGCTCTGTGTAATCCTGTCTGCAGGGAGACT
AAATCCTTCTTACCAGCCAGCAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215223 representing NM_001012515
 Red=Cloning site Green=Tags(s)

M R S L G A N M A A A L R A A G V L L R D P L A S S S W R V C Q P W R W K S G A A A A V T T E T A Q H A Q G A K P Q V Q P Q K R Y E S N I
 R K P K T G I L M L N M G G P E T L G D V H D F L L R L F L D R D L M T L P I Q N K L A P F I A K R R T P K I Q E Q Y R R I G G G S P I K I
 W T S K Q G E G M V K L L D E L S P N T A P H K Y Y I G F R Y V H P L T E E A I E E M E R D G L E R A I A F T Q Y P Q Y S C S T T G S S L N
 A I Y R Y N Q V G R K P T M K W S T I D R W P T H H L L I Q C F A D H I L K E L D H F P L E K R S E V V I L F S A H S L P M S V V N R G D
 P Y P Q E V S A T V Q K V M E R L E Y C N P Y R L V W Q S K V G P M P W L G P Q T D E S I K G L C E R G R K N I L L V P I A F T S D H I E T
 L Y E L D I E Y S Q V L A K E C G V E N I R R A E S L N G N P L F S K A L A D L V H S H I Q S N E L C S K Q L T L S C P L C V N P V C R E T
 K S F F T S Q Q L

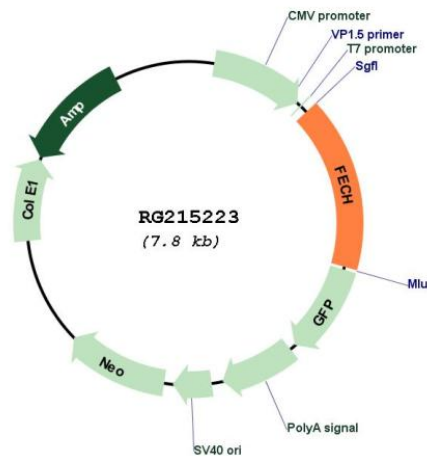
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012515

ORF Size:	1287 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none">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
Gene Summary:	<p>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]</p>