OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC215932

Fer (NM_008000) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fer (NM_008000) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fer
Synonyms:	AV082135; C330004K01Rik; Fert; Fert2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC215932 representing NM_008000
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATAAGAGTATGGAGTGTCCCCACTGTGAGGGTGTGCTGGAGCCTGAGTCTGACCCCCAGTTCTCTA
AAAAATGTTCTATACCATTGAGCCCTGGACCTTCCTCATCAGAGATCCTGAGATACAAGGAAAGAAAGGA
GAGGCTATCCAAATTTGAGTCTATTCGTCATTCAATTGCTGGGATAATTAAGTCTCCAAAGTCGGTACTC
GGATCTTCAACAGTGTGTGATGTGATCTCTGTGGGTGAGAGGCCCCTGGCGGAGCATGACTGGTACCATG
GTGCCATCCCCAGGATAGAGGCACAGGAACTGCTGAAGCAGCAAGGAGACTTCCTGGTGCGGGAGAGCCA
TGGGAAACCTGGTGAATATGTCCTTTCTGTATATTCTGACGGACAAAGGAGGCACTTTATCATACAATTT
GTCGATAATCTGTATCGATTCGAGGGCACCGGGTTTTCAAACATTCCCCAGCTTATAGATCACCACTTCA
ATACAAAGCAAGTCATCACCAAGAAGTCTGGGGTGGTTCTGCTCAACCCCATCCCAAAGGATAAGAAATG
GGTTCTCAATCATGAAGATGTTTCATTGGGAGAATTACTGGGCAAGGGGAATTTTGGTGAAGTGTATAAG
GGCACACTAAAGGATAAAACTCCTGTTGCCATTAAAACGTGCAAGGAAGACCTTCCTCAGGAATTAAAAA
TAAAGTTTCTACAGGAAGCCAAAATTCTGAAGCAATATGATCATCCCAATATTGTCAAACTGATAGGCGT
GTGCACACAAAGACAGCCTGTCTACATCATTATGGAACTGGTCCCAGGGGGTGATTTTCTGACCTTCCTG
AGGAAGAGGAAGGACGAGCTGAAGCTGAAGCAGTTGGTGAGATTTTCCTTGGACGTTGCTGCTGGCATGT
TGTATCTCGAGAGCAAGAACTGCATTCACAGGGACCTGGCTGCACGGAACTGCCTGGTGGGTGAAAATAA
TACTCTGAAAATCAGTGACTTTGGAATGTCTCGGCAAGAAGACGGTGGAGTGTATTCATCTTCTGGCTTA
AAGCAGATTCCTATTAAATGGACAGCACCGGAAGCTCTTAATTATGGGAGATACAGTTCTGAAAGTGACG
TGTGGAGCTTCGGCATCCTCCTCTGGGAGACCTTCAGCCTAGGAGTCTGCCCGTACCCTGGAATGACAAA
CCAGCAAGCGCGAGAGCAAGTGGAGAGAGGATACCGGATGTCAGCCCCACAGAACTGTCCAGAGGAGGTT
TTTACAATCATGATGAAGTGTTGGGATTACAAGCCTGAAAACCGCCCTAAGTTCAACGACCTTCACAAAG
AGCTCACTGTCATCAAGAAGATGATCACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_008000

Insert Size: 1362 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_008000.2, NP_032026.2
RefSeq Size:	2383 bp
RefSeq ORF:	1362 bp
Locus ID:	14158
UniProt ID:	P70451
Cytogenetics:	17 E1.1
Gene Summary:	Tyrosine-protein kinase that acts downstream of cell surface receptors for growth factors and plays a role in the regulation of the actin cytoskeleton, microtubule assembly, lamellipodia formation, cell adhesion, cell migration and chemotaxis. Acts downstream of EGFR, KIT, PDGFRA and PDGFRB. Acts downstream of EGFR to promote activation of NF-kappa-B and cell proliferation. May play a role in the regulation of the mitotic cell cycle. Plays a role in the insulin receptor signaling pathway and in activation of phosphatidylinositol 3-kinase. Acts downstream of the activated FCER1 receptor and plays a role in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Plays a role in the regulation of mast cell degranulation. Plays a role in leukocyte recruitment and diapedesis in response to bacterial lipopolysaccharide (LPS). Phosphorylates CTTN, CTNND1, PTK2/FAK1, GAB1, PECAM1 and PTPN11. May phosphorylate JUP and PTPN1. Can phosphorylate STAT3 according to PubMed:10878010 and PubMed:19159681, but clearly plays a redundant role in STAT3 phosphorylation. According to PubMed:11134346, cells where wild type FER has been replaced by a kinase-dead mutant show no reduction in STAT3 phosphorylation. Phosphorylates TMF1. Isoform 3 lacks kinase activity.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, and has multiple differences in the coding region, compared to variant 1. The encoded isoform (b) has a distinct and shorter N-terminus and lacks an internal aa, compared to isoform a.