

Product datasheet for **MC228884**

Fer (NM_001286415) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fer (NM_001286415) 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: >MC228884 representing NM_001286415
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGATTTGGGAGTGACCTGAAGAAGCTGACAGCAAGCTGTGTTAAAGTTGCAAGACTGGGAACACGGT
 TGCTGGAGACAGTGAAGAAATTTATGGCTCTGAGAATAAAGAGTGATAAAGAATATGCATATACTCTACA
 GAATCTTTGTAATCAAGTTGATAAAGAAAGCACTGTGCAAGTGAATTATGTCAGCAACGTGTCCAAGGTC
 ACAAAGACAGAATTGGAGAAATTTAAATCCAGCTATCGACAATTAATAAAGAAATGAATTTGCCAAAG
 AGAAATATAAAGAAGCCTTAGCGAAAGGGAAGGAAACAGAAAAGGCCAAGGAGCGCTATGACAAAGCTAC
 AATGAAGCTTCATATGCTGCATAATCAGTATGTGTTGGCACTGAAGGGGGCACAGCTCCATCAGAGCCAG
 TACTATGATACCACACTCCTCTGCTGCTGGACTCCGTGCAAAAGATGCAAGAAGAAATGATAAAGCAC
 TAAAGGTATATTTGATGACTATAGCCAGATAACCAGCCTTGTTACAGAGGAAATAGTGAATGTCCATAA
 AGAGATCAAATGTCTGTTGAACAGATAGACCCTAGCACCGAATAATAAATTTATAGATGTTCCACAGA
 ACAACAGCTGCTAAAGAACAAGAAATCGAATTTGATACTTCCCTATTAGAAGAAAATGAAAATCTTCAGG
 CAAATGAGATCATGTGGAATAATTTAACAGCAGACAGTTTGAAGTCAATGTTGAAGACTTTAGCGGAAGA
 GCTCACACAGACCCAGCAGATGCTTTTACACAAGGAGGCGGCCGTCTGGAGCTAGAGAAGAGGATTGAA
 GAATCTTTGAGACCTGTGAAAAGAAGTCTGACATTGTGCTTCTTCTGGGCCAAAAACAGGCACTTGAAG
 AGTTGAAACAGTCAGTCCAGCAGTTGCGATGCACTGAGGCAAAGTGTGCAGCACAGAAAGCTTTGCTGGA
 GCAAAAAGTACAGGAAAATGATGGGAAAGAACCTCCTGTGGTGAATTACGAAGAAGACGCGCGGTCA
 GTCACATCCATGGAAAGAAAGGAGAGGCTATCCAAATTTGAGTCTATTCGTCATTCAATTGCTGGGATAA
 TTAAGTCTCCAAAGTCGGTACTCGGATCTTCAACACAGGTGTGTGATGTGATCTCTGTGGTGAGAGGCC
 CCTGGCGGAGCATGACTGGTACCATGGTGCCATCCCAGGATAGAGGCACAGGAAGTCTGAAGCAGCAA
 GGAGACTTCTGGTGCGGGAGAGCCATGGGAAACCTGGTGAATATGTCCTTTCTGTATATTTGACGGAC
 AAAGGAGGCACTTTATCATACAATTTGTCGATAATCTGTATCGATTGAGGGCACCGGGTTTTCAACAT
 TCCCCAGCTTATAGATCACCCTTCAATACAAAGCAAGTATCACCAGAAGTCTGGGGTGGTTCTGCTC
 AACCCCATCCCAAAGGATAAGAAATGGTTCTCAATCATGAAGATGTTTTCATTGGGAGAATTACTGGGCA
 AGGGGAATTTTGGTGAAGTGTATAAGGGCACACTAAAGGATAAACTCCTGTTGCCATTAACCGTGCAA
 GGAAGACCTTCTCAGGAATTAATAAAGTTTCTACAGGAAGCCAAAATCTGAAGCAATATGATCAT
 CCCAATATTGTCAAAGTATAGGCGTGTGCACACAAGACAGCCTGTCTACATCATTATGGAAGTGGTCC
 CAGGGGGTGATTTCTGACCTTCTGAGGAAGAGGAGGACGAGCTGAAGCTGAAGCAGTTGGTGAGATT
 TTCTTGGACGTTGCTGCTGGCATGTTGTATCTCGAGAGCAAGAAGTGCATTACAGGGACCTGGCTGCA
 CGGAAGTGCCTGGTGGGTGAAAATAACTCTGAAAATCAGTGAATTTGGAATGTCTCGGCAAGAAGACG
 GTGGAGTGATTCATCTTCTGGCTTAAAGCAGATTCCTATTAATGGACAGCACCAGGAGCTTAAATTA
 TGGGAGATACAGTTCTGAAAGTGACGTGTGGAGCTTCGGCATCCTCCTCTGGGAGACCTCAGCCTAGGA
 GTCTGCCCGTACCCTGGAATGACAAACCAGCAAGCGGAGAGCAAGTGGAGAGAGGATACCGGATGTCAG
 CCCACAGAAGTCCAGAGGAGGTTTTACAATCATGATGAAGTGTGGGATTACAAGCTGAAAACCG
 CCCTAAGTTCAACGACCTTCAAAAGAGCTCACTGTATCAAGAAGATGATCACA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001286415
Insert Size: 2298 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001286415.1</u> , <u>NP_001273344.1</u>
RefSeq Size:	2948 bp
RefSeq ORF:	2298 bp
Locus ID:	14158
UniProt ID:	<u>P70451</u>
Cytogenetics:	17 E1.1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR exon, and lacks an in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (c) lacks an internal segment, compared to isoform a.</p>