

Product datasheet for **RN208624**

Fer (NM_001106928) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fer (NM_001106928) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Fer
Synonyms:	Fert2; Flk; Flk_retired
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN208624 representing NM_001106928
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCAGAGTGTGGAGTGTCCCCTGTGAGGGTGACCTGGAGCCTGACTCTGACTCCAAGTTCTGTA
 AAAAATGCTCTATACCGATGAGCCCTGGCCCTTCTCATCAGAGATCCAGAGATACCAGGAAAGAAAGGA
 GAGGCTATCCAAATTTGAGTCTATTCGTCATTCAATTGCTGGAATAATTAAGTCTCCAAAGTCGGTCCTC
 GGCTCTTCAACGCTCTCTGACGTGATCTCTGTGGGTGAGAAGCCCTGGCGGAGCATGACTGGTACCACG
 GTGCCATCCCAGGATAGAGGCACAAGAAGTCTGAAGCAGCAGGGAGACTTCTGGTGCAGAGAGCCA
 TGGGAAACCTGGTGAATATGTCCTTTCTGTATATTCTGACGGACAAGGAGGCACCTTATCATAAGTTT
 GTTGATAATCTATATCGATTTGAGGGCACCGGCTTTTCAAATATCCCTCAACTTATAGATCACCCTTCA
 ATACAAAGCAAGTCATCACAAGAAGTCGGGGTGGTTCTGCTGAATCCTATTCCAAAGGATAAGAAATG
 GTTTCTCAATCATGAAGATGTTTCATTGGGAGAATTACTGGCAAGGGGAATTTTGGTGAGGTGTACAAG
 GGCACACTGAAGGATAAAACCCCTGTTGCTGTTAAAACGTGCAAGGAAGACCTGCCTCAGGAACTAAAA
 TAAAGTTTTTACAGGAAGCCAAAATTCTCAAGCAATATGATCACCCCAATATTGTCAAACCTATAGGCGT
 GTGCACACAAAGACAGCCTGTCTACATCATTATGGAAGTGGTCCCAGGAGGTGATTTTCTGTCTTTCTG
 AGGAAGAGGAAGGACGAGCTAAAGTTGAAGCAGTTGGTGAAGTTTTCTTGGACGTTGCTGCTGGCATGC
 TGTATCTCGAGGGCAAGATCTGCATTACAGGGACCTGGCTGCACGGAAGTGCCTGGTAGGTGAAAAATA
 TACTCTGAAAATCAGTGACTTTGGGATGCTCGGCAAGAAGACCGTGGAGTGATTCATCTTCTGGCTTA
 AAGCAGATTCCCATTAAAGTGGACAGCACCAGAAGCACTGAATTATGGGAGATACAGCTCTGAAAGTGACG
 TGTGGAGCTTCGGCATCCTGCTCTGGGAGACTTTCAGCCTGGGAGTCTGTCCGTACCCTGGGATGACAAA
 CCAGCAAGCACGGGAACAAGTGGAGAGAGGGTATCGGATGTCAGCCCCACAGAAGTGTCCCAGGAAATT
 TTTACAATCATGATGAAGTGTGGATTACAAGCCTGAAAACCGCCCTAAGTTCAGTGACCTTCACAAAG
 AGCTCACGGCCATCAAGAAGAAAATCACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001106928

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:	<u>NM_001106928.1, NP_001100398.1</u>
RefSeq Size:	3387 bp
RefSeq ORF:	1362 bp
Locus ID:	301737
Cytogenetics:	9q37
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). Plays a role in neuronal cell death after brain damage. Phosphorylates CTTN, CTNND1, PTK2/FAK1, GAB1, PECAM1 and PTPN11. May phosphorylate JUP and PTPN1. Can phosphorylate STAT3, but the biological relevance of this clearly depends on cell type and stimulus (By similarity). Plays a role in synapse organization, trafficking of synaptic vesicles, the generation of excitatory postsynaptic currents and neuron-neuron synaptic transmission.[UniProtKB/Swiss-Prot Function]</p>