

Product datasheet for **SC323485**

FER (NM_005246) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FER (NM_005246) Human Untagged Clone
Tag:	Tag Free
Symbol:	FER
Synonyms:	p94-Fer; PPP1R74; TYK3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005246, the custom clone sequence may differ by one or more nucleotides

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ATGGGGTTTGGGAGTGACCTGAAGAATTCACATGAAGCAGTGTTAAAATTGCAAGACTGGGAATTACGGT
TACTGGAACAGTAAAGAAATTTATGGCCCTGAGAATAAAAAGTGATAAAGAATATGCATCTACTTTACA
GAACCTTTGTAATCAAGTTGATAAGGAAAGTACTGTCCAATGAATTATGTCAGCAACGTATCCAAGTCT
TGGCTACTTATGATTCAGCAGACAGAACAACCTTAGTAGGATAATGAAGACACATGCAGAGGACTTGAAC
CTGGACCTTTACACAGGCTCACCATGATGATTAAGGACAAGCAGCAGGTGAAGAAAAGTTACATAGGTGT
TCATCAGCAGATAGAGGCAGAGATGATCAAGGTTACAAAAACAGAATTGGAGAAGTTAAAATGCAGCTAT
AGACAATTAATAAAAGAAATGAATTCTGCCAAAGAGAAAATAAAGAAGCTTTAGCTAAAGGGAAGGAAA
CTGAAAAGGCCAAGGAACGATACGACAAAGCCACAATGAAACTTCATATGTTGCACAATCAGTATGTATT
GGCGTTGAAAGGGGCACAGCTCCATCAGAATCAGTATTATGATATCACACTTCCCCTGCTTCTGGACTCC
TTACAAAAGATGCAAGAAGAAATGATAAAAGCACTCAAAGGTATATTTGATGAATACAGCCAGATAACCA
GTCTTGTACAGAGGAAATAGTGAATGTCCATAAAGAGATTCAAATGTCGGTTGAACAGATAGATCTTAG
TACAGAATACAATAATTTTCATAGATGTTTACAGAAACAACGGCTGCTAAAGAAACAAGAAATAGAGTTTGT
ACTTCCTTACTGGAAGAAAATGAAAATCTTCAGGCAAATGAGATCATGTGGAATAACTTAACAGCAGAAA
GTTTGCAAGTAATGTTGAAAACGTTAGCGGAAGAAGCTTATGCAACACAGCAGATGCTTTTAAACAAGGA
GGAGGCTGTTTTGGAGTTAGAGAAGAGAATTGAAGAATCTTCTGAAACTTGTGAGAAGAAGTCTGATATT
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AAGCAAAGTTTTTCAGCACAGAAGGAATTACTAGAGCAAAAAGTGAAGAAAATGATGGGAAAAGAGCCACC
TCCAGTAGTAAATTAAGAAGATGCAGATCAGTTACATCTATGGAAGAAAAGGAGAGGCTATCCAAA
TTTGAATCTATTCTGCTCATTCAATTGCTGGAATAATTAGGTCTCCAAAATCTGCACTGGGCTCTTCAGCAG
TTTCTGATATGATCTCCATCAGTGAGAAGCCTTTGGCAGAACAGGACTGGTACCATGGTGAATTTCCAG
AATAGAAGCTCAAGAAGTGTAAAAAACAAGGAGACTTTTTGGTGCGAGAGAGTCAAGGAAAACCTGGT
GAATATGCTCTTCTGTATATTCTGATGGACAGAGGAGACATTTTATCATACAATATGTTGATAACATGT
ATCGATTCGAGGGCACTGGGTTTTCAAACATTCCTCAACTTATAGATCATCACTATACAACAAAACAGGT
CATCACTAAGAAATCAGGTGTAGTTCTGCTGAATCCTATTCCTAAGGACAAGAAATGGATTCTCAGTCAT
GAAGATGCATATTGGGAGAATTACTGGCAAGGGAAAATTTGGTGAAGTATATAAGGGCACATTAAGG
ATAAACTTCTGTTGCTGTTAAAACATGTAAGAAGATCTTCCTCAGGAATTGAAAATAAAATTTTACA
AGAAGCCAAAATTCAGCAATATGATCATCCCAATATTGTCAAACCTTATAGGAGTTTGCACACAAGA
CAGCCTGTCTACATCATTATGGAAGTGGTTTCAGGAGGTGATTTCTCACCTTTCTGAGAAGGAAGAAGG
ATGAACTAAAACCTCAAACAGTTAGTGAATTTTCATTAGACGCTGCTGCTGGTATGTTGTATCTCGAGAG
TAAAACTGTATACACAGGGACCTTGTGCAAGAACTGCCTGGTAGGTGAAAATAATGTTCTGAAAATC
AGTGACTTTGGAATGTCTCGTCAAGAGGATGGTGGAGTGTATTCACTTCTGGCTTAAAGCAGATTTCCCA
TTAAATGGACAGCACCGGAAGCTCTTAATTATGGGAGATACAGTTTCAAGAGTGCAGTGTGGAGCTTTGG
CATCCTTCTCTGGGAGACCTTCAGCTTAGGGTTTGTCCGTACCCTGGAATGACAATCAGCAAGCAAGA
GAGCAAGTAGAAAAGGATACCGGATGTCAGCTCCCAGCACTGTCCAGAGGATATTTCCAAAATCATGA
TGAAGTGTGGGATTATAAACCTGAAAATCGCCCTAAGTTCAGTGAACCTCAGAAAAGAGCTCACTATCAT
CAAGAGAAAACCTCACATAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_005246 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGTTCTAGATATGTG CTGATTAGAAGGCTCACTTGTGCAGTGTGGAGGATAACCAGTGCCTTACAAAATGGGGTTTGGGAGTGAC CTGAAGAATTCACATGAAGCAGTGTAAAATTGCAAGACTGGGAATTACGGTTACTGAAACAGTAAAGA AATTTATGGCCCTGAGAATAAAAAGTGATAAAGAATATGCATCTACTTTTACAGAACCTTTGTAATCAAG TGTGATAAAGGAAAGTACTGTCCCAAATGAATTTATGTCAGCAACGTATCCAAGTCTTGCCTACTTTATG AATTCAGCAGACAGAACCAACTTTAGTAGGATAATGAAGGACCACATGGCCAAAGGACTTGACCTCTGAA CCTTTACCAGGCTAACAAAGGAGGATTAAGGACAGGCCGAAGGGGAAAAAAGTTACTAAGTGTGTTTTTC CAGCAGTAGAGGGGCGAAATATATCAAGGGTAACCAAAACAAATTGAGAAATTTAAATGCGCCTTTTACA CATTTTATAAGAGATGTGATTTCTGCCAGAGAAAAATATAGAGACGCTTTCCTAAGGGAGAGGAACTGA AAGCGCCAGGGCACGACGCACAGCCCATGGACTCTCATGTGTGCCAACACCATTATATGCGTGTAAAGG GCACACTCTCTCAATAGTATTATGATATCCCTTCTCCGTGCTGGCTCTCACATGCGCGAGTGTGTAAGCC TCAAGAGTTTGTAAACGGCGGATACGCTGTTTCGAGGAGATATGATCAAGATCACTGCCTGTGACTGATC ATCGGACACACGTCCATGCCAGCTGTGGACACAGGAAAAGTGAGTACTTCTATCGGAGA
Kinase Domain Sequence:	>SC323485 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation GTKKWVKYMWWTGKGRGAWTACTGGGCAGGGAATTTWGGTGAAGTATATAAGGGCACATTAASSMTAW YAWKTCTGTTGCTGTTATGACATGTAAGAAGATCTTCTCAGGAATTGAAAATAAAATTTTACAAGAA GCCAAAATCTCAAGCAATATGATCATCCAATATTGTCAAATATAGGAGTTTGCACACAAKACAGC CTGTCTACRTCATTATGGAAGTGGTTTCAGGARGTGATTTCTCA
Restriction Sites:	Please inquire
ACCN:	NM_005246
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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_005246.1.
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_005246.1 , NP_005237.1
RefSeq Size:	2950 bp
RefSeq ORF:	2469 bp

Locus ID:	2241
UniProt ID:	P16591
Cytogenetics:	5q21.3
Domains:	pkinase, SH2, FCH, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Adherens junction
Gene Summary:	<p>The protein encoded by this gene is a member of the FPS/FES family of non-transmembrane receptor tyrosine kinases. It regulates cell-cell adhesion and mediates signaling from the cell surface to the cytoskeleton via growth factor receptors. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome X. [provided by RefSeq, Apr 2015]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a, also known as p94-Fer or FerS). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>