

## Product datasheet for **RC219948**

### FER (NM\_005246) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FER (NM_005246) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FER
Synonyms:	p94-Fer; PPP1R74; TYK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC219948 representing NM\_005246  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTTTGGGAGTGACCTGAAGAATTCACATGAAGCAGTGTTAAAATTGCAAGACTGGGAATTACGGT  
 TACTGGAAACAGTAAAGAAATTTATGGCCCTGAGAATAAAAAGTGATAAAGAATATGCATCTACTTTACA  
 GAACCTTTGTAATCAAGTTGATAAGGAAAGTACTGTCCAATGAATTATGTCAGCAACGTATCCAAGTCT  
 TGGCTACTTATGATTCAGCAGACAGAACAACCTTAGTAGGATAATGAAGACACATGCAGAGGACTTGAAC  
 CTGGACCTTTACACAGGCTCACCATGATGATTAAGGACAAGCAGCAGGTGAAGAAAAGTTACATAGGTGT  
 TCATCAGCAGATAGAGGCAGAGATGATCAAGGTTACCAAAACAGAATTGGAGAAGTTAAAATGCAGCTAT  
 AGACAATTAATAAAGAAATGAATTCGCCAAAGAGAAAATAAAGAAGCTTTAGCTAAAGGGAAGGAAA  
 CTGAAAAGGCCAAGGAACGATACGACAAGCCACAATGAACTTCATATGTTGCACAATCAGTATGTATT  
 GCGGTTGAAAGGGGCACAGCTCCATCAGAATCAGTATTGATATCACACTTCCCCTGCTTCTGGACTCC  
 TTACAAAAGATGCAAGAAGAAATGATAAAAGCACTCAAAGGTATATTTGATGAATACAGCCAGATAACCA  
 GTCTTGTACAGAGGAAATAGTGAATGTCCATAAAGAGATTCAAATGTCGGTTGAACAGATAGATCCTAG  
 TACAGAATACAATAATTTATAGATGTTTACAGAACACCGGCTGCTAAAGAACAGAAATAGAGTTTGAT  
 ACTTCCTTACTGGAGAAATGAAAATCTTCAGGCAATGAGATCATGTGGAATAACTTAACAGCAGAAA  
 GTTTGCAAGTAATGTTGAAAACGTTAGCGGAAGAACTTATGCAACACAGCAGATGCTTTTAAACAAGGA  
 GGAGGCTGTTTTGGAGTTAGAGAAGAGAATTGAAGAATCTTCTGAACTTGTGAGAAGAAGTCTGATATT  
 GTGCTTCTGCTAAGCCAAAACAGGCACCTGAAGAAGTGAACAGTCCAGCAGCTGAGATGCACCTG  
 AAGCAAGTTTTTACAGCAGAGAAGGAATTAAGCAAGAAAGTGAAGAAAATGATGGGAAAGAGCCACC  
 TCCAGTAGTAAATTAAGAAAGATGCAGGATCAGTTACATCTATGGAAAAGAGGAGGCTATCCAAA  
 TTTGAATCTATTCGTCATTCAATTGCTGGAATAATTAGGTCTCCAAAATCTGCACTGGGCTCTTACGAC  
 TTTCTGATATGATCTCCATCAGTGAGAAGCCTTTGGCAGAACAGGACTGGTACCATGGTGAATTTCCAG  
 AATAGAAGCTCAAGAAGTGTAAAAAACAAGGAGACTTTTTGGTGCAGAGAGTGCATGGGAAACCTGGT  
 GAATATGCCTTTCTGTATTTCTGATGGACAGAGGAGACATTTTATCATAAATATGTTGATAACATGT  
 ATCGATTCGAGGGCACTGGGTTTTCAAACATTCCTCAACTATAGATCATCACTATAACAACAAACAGGT  
 CATCACTAAGAAATCAGGTGTAGTTCTGCTGAATCCTATTCCTAAGGACAAGAAATGGATTCTCAGTCAT  
 GAAGATGCATATTGGGAGAATTACTGGCAAGGGAAATTTTGGTGAAGTATATAAGGGCACATTAAGG  
 ATAAAATCTGTTGCTGTTAAAACATGTAAAGAAGATCTTCCTCAGGAATTGAAAATAAAATTTTACA  
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 AGTGACTTTGGAATGCTCGTCAAGAGGATGGTGGAGTGTATTCATCTTCTGGCTTAAAGCAGATTTCCA  
 TTAATGGACAGCACCGGAAGCTCTTAATTATGGGAGATACAGTTCAGAGAGTGCAGTGTGGAGCTTTGG  
 CATCCTTCTCTGGGAGACCTTCAGCTTAGGGTTTGTCCGTACCCTGGAATGACAATCAGCAAGCAAGA  
 GAGCAAGTAGAAAAGAGGATACCGGATGTACAGCTCCCAGCACTGCCAGAGGATATTTCCAAAATCATGA  
 TGAAGTGTGGGATTATAAACCTGAAAATCGCCCTAAGTTCAGTGAACCTCAGAAAAGAGCTCACTATCAT  
 CAAGAGAAAACCTACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC219948 representing NM\_005246  
Red=Cloning site Green=Tags(s)

MGFGSDLKNSHEAVLKLQDWELRLETVKKFMALRIKSDKEYASTLQNLGNQVDKESTVQMNYSNVS  
WLLMIQQTEQLSRIMKTHAEDLNSGPLHRLTMMIKDKQVVKSYIGVHQQIEAEMIKVTKTELEKLKCSY  
RQLIKEMNSAKEKYKEALAKGKETEKAKERYDKATMKLHMLHNQYVLALKGAQLHQYDITLPLLLDS  
LQKMQEEMIKALGIFDEYSQITSLVTEEIVNVHKEIQMSVEQIDPSTEYNNFIDVHRTTAAKEQIEFD  
TSLLEENENLQANEIMWNNLTAESLQVMLKTLAEELMQTQQMLLNKEEAVLELEKRIEESSETCEKKSDI  
VLLLSSQQAEEELKQSVQQLRCTEAKFSAQKELLEQKVQENDGKPPPVVNYEEDARSVTSMERKERLSK  
FESIRHSIAGIIRSPKSALGSSALSDMISISEKPLAEQDWHGAIPIEAQELLKQGDFLVRESHGKPG  
EYVLSVYSDGQRRHFIIQYVDNMYRFEGTGFSNIPQLIDHHYTTKQVITKSGVLLNPIPKDKKWL  
SHEDVILGELLGKGNFGEVYKGTLDKDTSAVKTCKEDLPQELKIKFLQEAAILKQYDHPNIVKLIGVCTQR  
QPYYIIMELVSGGDFLTFLLRRKKDELKLVKFLSLDAAAGMLYLESKNCIHRDLAARNCLVGENNVLKI  
SDFGMSRQEDGGVYSSSGLKQIPIKWTAPEALNYGRYSSESDVWSFGILLWETFSLGVCPYPGMTNQAR  
EQVERGYRMSAPQHCPEDISKIMMKWDYKPENRPKFSELQKELTIKRKLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg4149\\_b02.zip](https://cdn.origene.com/chromatograms/mg4149_b02.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_005246

**ORF Size:** 2466 bp

**OTI Disclaimer:** 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](#)

**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:**

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\\_005246.4](#)

**RefSeq Size:** 2950 bp

**RefSeq ORF:** 2469 bp

**Locus ID:** 2241

**UniProt ID:** [P16591](#)

**Cytogenetics:** 5q21.3

**Domains:** pkinase, SH2, FCH, TyrKc, S\_TKc

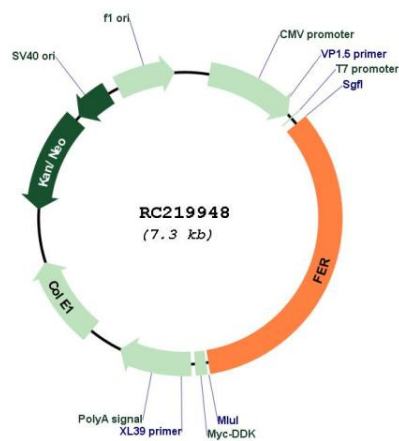
**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Adherens junction

**MW:** 94.5 kDa

**Gene Summary:** 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]

## Product images:



Circular map for RC219948