

Product datasheet for **MG220921**

Fer (NM_001037997) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fer (NM_001037997) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fer
Synonyms:	AV082135; C330004K01Rik; Fert; Fert2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220921 representing NM_001037997
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGATTTGGGAGTGACCTGAAGAAGCTGAGCAAGCTGTGTTAAAGTTGCAAGACTGGGAACACGGT
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 CTGGACCTTGCACAGGCTCACCATGATGATCAAGGACAAGCAGCAAGTGAAGAAGAGCTATGTAGGCAT
 TCATCAACAGATAGAGGCAGAGATGATCAAGGTCACAAAGACAGAATTGGAGAAATTAATCCAGCTAT
 CGACAATTAATAAAGAAATGAATTCGCCAAAGAGAAAATAAAGAAGCCTTAGCGAAAGGGAAGGAAA
 CAGAAAAGGCCAAGGAGCGCTATGACAAAGCTACAATGAAGCTTCATATGCTGCATAATCAGTATGTGT
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 CGAGAGCAAGTGGAGAGAGGATACCGGATGTAGCCCCACAGAAGTGTCCAGAGGAGGTTTTTACAATCA
 TGATGAAGTGTGGGATTACAAGCCTGAAAACCGCCCTAAGTTCAACGACCTTCAAAAGAGCTCACTGT
 CATCAAGAAGATGATCACA

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG220921 representing NM_001037997
 Red=Cloning site Green=Tags(s)

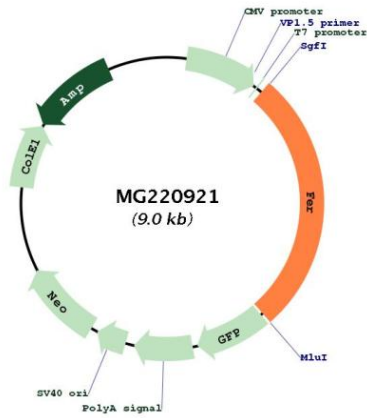
MGFGSDLKNSQEAVLKLQDWELRLLLETVKKFMALRIKSDKEYAYTLQNLGNQVDKESTVQVNYVSNVSKS
 WLLMIQQTEQLSRIMKTHAEDLNSGPLHRLTMMIKDKQQVKKSYVGIHQQIEAEMIKVTKTELEKLSY
 RQLIKEMNSAKEKYKEALAKGKETEKAKERYDKATMKLHMLHNQYVLALKGAQLHQSYDDTTLPLLLDS
 VQKMQEEMIKALKGIFDDYSQITSLVTEEIVNVHKEIQMSVEQIDPSTEYNNFIDVHRTTAAKEQIEFD
 TSLLEENENLQANEIMWNNLTADSLQVMLKTLAEELTQTQQMLLHKEAAVLELEKRIEESFETCEKKSDI
 VLLLGGKQALEELKQSVQQLRCTEAKCAAQKALLEQKVQENDGKEPPPVVNYEEDARSVTSMERKLSK
 FESIRHSIAGIIKSPKSVLGSSTQVCDVIVSVGERPLAEHDWYHGAIPRIEAQELLKQQGDFLVRESHGKP
 GEYVLSVYSDGQRRHFIIQFVDNLYRFEGTGFSNIPQLIDHHFNTKQVITKKSGLVLLNPIPDKKWWLN
 HEDVSLGELLGKGNFGEVYKGLKDKTPVAIKTCKEDLPQELKIKFLQEAKILKQYDHPNIVKLGIVCTQ
 RQPVYIIMELVPGGDFLTFLRKRKDELKQLVRFSLDVAAGMLYLESKNCIHRDLAARNCLVGENNTLK
 ISDFGMSRQEDGGVYSSSGLKQIPIKWTAPEALNYGRYSSESVDVWSFGILLWETFSLGVCPPYGMTNQQA
 REQVERGYRMSAPQNCPEEVFTIMMKCWDYKPENRPFNDLHKELTVIKKMIT

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_001037997.3 , NP_001033086.2
RefSeq Size:	3026 bp
RefSeq ORF:	2472 bp
Locus ID:	14158
UniProt ID:	P70451
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>

Product images:



Circular map for MG220921