

Product datasheet for **RC214458**

FGR (NM_005248) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FGR (NM_005248) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | FGR |
| Synonyms: | c-fgr; c-src2; p55-Fgr; p55c-fgr; p58-Fgr; p58c-fgr; SRC2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC214458 representing NM_005248
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCTGTGTCTGCAAGAAATTGGAGCCGGTGGCCACGGCCAAGGAGGATGCTGGCCTGGAAGGGG
 ACTTCAGAAGCTACGGGGCAGCAGACCCTATGGGCTGACCCCACTAAGGCCCGCCTGCATCCTCATT
 TGCCACATCCCCAACTACAGCAACTTCTCCTCTCAGGCCATCAACCCTGGCTTCTTATAGTGGCACC
 ATCAGGGGTGTGTGAGGATTGGGGTGACCCTGTTTATTGCCCTGTACTATGAGGCTCGAACTGAGG
 ATGACCTCACCTCACCAAGGGCGAGAAGTTCCACATCCTGAACAATACTGAAGGTGACTGGTGGGAGGC
 TCGGTCTCTCAGCTCCGAAAACTGGCTGCATTCCAGCAACTACGTGGCCCTGTTGACTCAATCCAA
 GCTGAAGAGTGGTACTTTGAAAAGATTGGGAGAAAGGATGCAGAGAGGCAGCTGCTTCCACAGGCAACC
 CCCAGGGGGCCTTCTCATTTCGGGAAAGCGAGACCACCAAGGTGCCTACTCCCTGTCCATCCGGGACTG
 GGATCAGACCAGAGGCGATCATGTGAAGCATTACAAGATCCGCAAACTGGACATGGGCGGCTACTACATC
 ACCACACGGGTTCACTCAACTCGGTGCAGGAGCTGGTGCAGCACTACATGGAGGTGAATGACGGGCTGT
 GCAACCTGCTCATCGCGCCTGCACCATCATGAAGCCGACAGCGCTGGGCTGGCCAAGGACGCCTGGGA
 GATCAGCCGACGCTCCATCACGCTGGAGCGCCGGCTGGGACCGGCTGCTTCGGGGATGTGTGGCTGGG
 ACGTGGAAACGGCAGCACTAAGGTGGCGGTGAAGACGCTGAAGCCGGGCACCATGTCCCCGAAGGCCTTCC
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 GGAGCCCATCTACATCGTGACCGAGTTCATGTGTACGGCAGCTTGTGGATTTTCTCAAGAACCAGAG
 GGCCAGGATTTGAGGCTGCCCAATTGGTGGACATGGCAGCCAGGTAGCTGAGGGCATGGCCTACATGG
 AACGCATGAACACATTCACCGCAGCTGAGGGCAGCCAACATCCTGGTTGGGAGCGGCTGGCGTGCAA
 GATCGCAGACTTTGGCTTGGCGCTCTCATCAAGGACGATGAGTACAACCCTGCCAAGGTTCAAGTTC
 CCCATCAAGTGGACAGCCCCAGAAGCTGCCCTCTTTGGCAGATTACCATCAAGTCAAGTCAAGTGTGGTCT
 TTGGGATCCTGCTCACTGAGCTCATACCAAGGGCCGAATCCCCTACCCAGGCATGAATAAACGGGAAGT
 GTTGGAACAGGTGGAGCAGGGCTACCACATGCCGTGCCCTCCAGGCTGCCAGCATCCCTGTACGAGGCC
 ATGGAACAGACTGGCGTCTGGACCCGGAGGAGGCCTACCTTCGAGTACCTGCAGTCTTCTGGAGG
 ACTACTCACCTCCGCTGAACCACAGTACCAGCCCGGGGATCAGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214458 representing NM_005248
 Red=Cloning site Green=Tags(s)

MGCVFCKKLEPVATAKEDAGLEGDFRSYGAADHYGPDPTKARPASSFAHIPNYSNFSQAINPGFLDSGT
 IRGVSGIGVTLFIALYDYEARTEDDLTFKGEKFHILNTEGDWWEARLSSGKTGCIPSNYVAPVDSIQ
 AEEWYFGKIGRKAERQLLSPGNPQGAFLIRESETTKGAYLSIRDWDQTRGDHVKHYKIRKLDMGYYI
 TTRVQFNVSQELVQHMEVNDGLCNLLIAPCTIMKPQTLGLAKDAWEISRSSITLERRLGTGCFGDVWLG
 TWNGSTKVAVKTLKPGTMSPKAFLEEAQVMKLLRHDKL VQLYAVVSEEPYIVTEFMCHGSLLDFLKNPE
 GQDLRLPQLVDMAAQVAEGMAYMERMNYIHRDLRAANILVGERLACKIADFLARLIKDDEYNPCQGSKF
 PIKWTAPEAALFGRFTIKSDVWSFGILLTELITKGRIPYPMNKREVLEQVEQGYHMPGPPGCPASLYEA
 MEQTWRLDPEERPTFEYLSFLEDYFTSAEPYQPGDQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

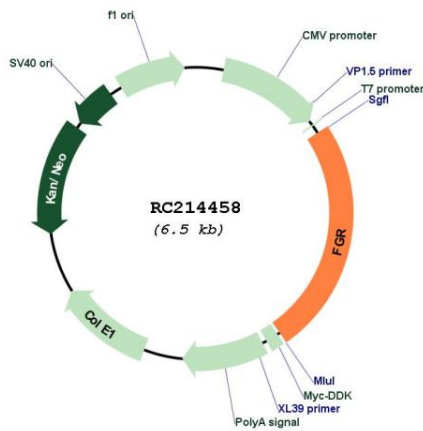
https://cdn.origene.com/chromatograms/mk6167_e10.zip

Restriction Sites:

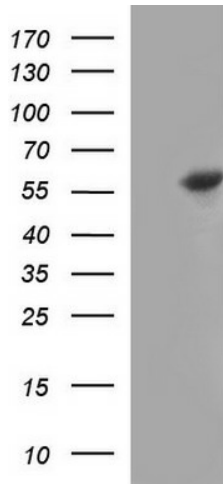
Sgfl-MluI

| | |
|--------------------------|--|
| Domains: | pkinese, SH2, TyrKc, SH3, S_TKc |
| Protein Families: | Druggable Genome, Protein Kinase |
| Protein Pathways: | Chemokine signaling pathway |
| MW: | 59.3 kDa |
| Gene Summary: | This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein contains N-terminal sites for myristylation and palmitylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to plasma membrane ruffles, and functions as a negative regulator of cell migration and adhesion triggered by the beta-2 integrin signal transduction pathway. Infection with Epstein-Barr virus results in the overexpression of this gene. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008] |

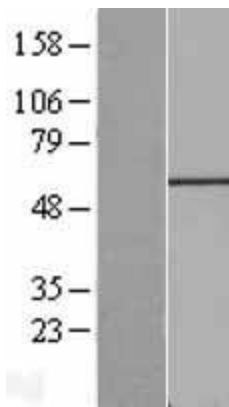
Product images:



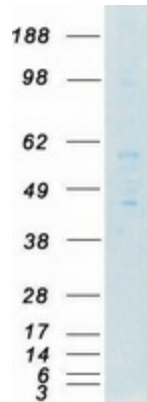
Circular map for RC214458



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FGR (Cat# RC214458, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FGR antibody (Cat# [TA590200]). Positive lysates [LY401612] (100ug) and [LC401612] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY420802]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC215016] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FGR protein (Cat# [TP314458]). The protein was produced from HEK293T cells transfected with FGR cDNA clone (Cat# RC214458) using MegaTran 2.0 (Cat# [TT210002]).