

## Product datasheet for **RG214458**

### **FGR (NM\_005248) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FGR (NM_005248) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGR
Synonyms:	c-fgr; c-src2; p55-Fgr; p55c-fgr; p58-Fgr; p58c-fgr; SRC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214458 representing NM\_005248  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCTGTGTCTGCAAGAAATTTGGAGCCGGTGGCCACGGCCAAGGAGGATGCTGGCCTGGAAGGGG  
 ACTTCAGAAGCTACGGGGCAGCAGACCACTATGGGCTGACCCCACTAAGGCCCGCCTGCATCCTCATT  
 TGCCACATCCCCAACTACAGCAACTTCTCCTCTCAGGCCATCAACCCTGGCTTCTTATAGTGGCACC  
 ATCAGGGGTGTGTGAGGATTGGGGTGACCCTGTTTATTGCCCTGTACTATGAGGCTCGAACTGAGG  
 ATGACCTCACCTTACCAAGGGCGAGAAGTTCCACATCCTGAACAATACTGAAGGTGACTGGTGGGAGGC  
 TCGGTCTCTCAGCTCCGAAAACTGGCTGCATTCCAGCAACTACGTGGCCCTGTTGACTCAATCCAA  
 GCTGAAGAGTGGTACTTTGAAAGATTGGGAGAAAGGATGCAGAGAGGCAGCTGCTTTCACCAGGCAACC  
 CCCAGGGGGCCTTCTCATTTCGGGAAAGCGAGACCACAAAGGTGCCTACTCCCTGTCCATCCGGGACTG  
 GGATCAGACCAGAGGCGATCATGTGAAGCATTACAAGATCCGCAAACTGGACATGGGCGGCTACTACATC  
 ACCACACGGGTTCACTCAACTCGGTGCAGGAGCTGGTGCAGCACTACATGGAGGTGAATGACGGGCTGT  
 GCAACCTGCTCATCGCGCCTGCACCATCATGAAGCCGACAGCGCTGGGCTGGCCAAGGACGCCTGGGA  
 GATCAGCCGACGCTCCATCACGCTGGAGCGCCGGCTGGGACCGGCTGCTTCGGGGATGTGTGGCTGGG  
 ACGTGGAAACGGCAGCACTAAGGTGGCGGTGAAGACGCTGAAGCCGGGCACCATGTCCCCGAAGGCCTTCC  
 TGGAGGAGGGCGCAGGTATGAAGCTGCTGCGGCACGACAAGCTGGTGCAGCTGTACGCCGTGGTGTGCGA  
 GGAGCCCATCTACATCGTGACCGAGTTCATGTGTACGGCAGCTTGTGGATTTTCTCAAGAACCAGAG  
 GGCCAGGATTTGAGGCTGCCCAATTGGTGGACATGGCAGCCAGGTAGCTGAGGGCATGGCCTACATGG  
 AACGCTGAACACATTCACCCGACCTGAGGGCAGCCAACATCCTGGTTGGGAGCGGCTGGCCTGCAAA  
 GATCGCAGACTTTGGCTTGGCGCGTCTCATCAAGGACGATGAGTACAACCCTGCCAAGGTTCCAAGTTC  
 CCCATCAAGTGGACAGCCCCAGAAGCTGCCCTCTTTGGCAGATTACCATCAAGTCAAGTCAAGTGTGCTCCT  
 TTGGGATCCTGCTCACTGAGCTCATACCAAGGGCCGAATCCCCTACCCAGGCATGAATAAACGGGAAGT  
 GTTGGAACAGGTGGAGCAGGGCTACCACATGCCGTGCCCTCCAGGCTGCCAGCATCCCTGTACGAGGCC  
 ATGGAACAGACCTGGCGTCTGGACCCGGAGGAGGCCTACCTTCGAGTACCTGCAGTCTTCTGGAGG  
 ACTACTCACCTCCGCTGAACCACAGTACCAGCCCGGGATCAGACA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG214458 representing NM\_005248  
 Red=Cloning site Green=Tags(s)

MGCVFCKLEPVATAKEDAGLEGDFRSYGAADHYGPDPTKARPASSFAHIPNYSNFSQAINPGFLDSGT  
 IRGVSGIGVTLFIALYDYEARTEDDLTFKGEKFHILNTEGDWWEARLSGKTCIPSNYVAPVDSIQ  
 AEEWYFGKIGRKAERQLLSPGNPQGAFLIRESETTKGAYSLIRDWDQTRGDHVKHYKIRKLDMGYYI  
 TTRVQFNSVQELVQHMEVNDGLCNLLIAPCTIMKPQTLGLAKDAWEISRSSITLERRLGTGCFGDVWLG  
 TWNGSTKVAVKTLKPGTMSPKAFLEEAQVMKLLRHDKLVQLYAVVSEEPYIVTEFMCHGSLDLFLKNPE  
 GQDLRLPQLVDMAAQVAEGMAYMERMNYIHRDLRAANILVGERLACKIADFLARLIKDDEYNPCQGSKF  
 PIKWTAPEAALFGRFTIKSDVWSFGILLTELITKGRIPYPMNKRIVLEQVEQGYHMPGPPGCPASLYEA  
 MEQWRLDPEERPTFEYLSFLEDYFTSAEPQYQPGDQT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_005248

**ORF Size:** 1587 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\\_005248.3](#)

**RefSeq Size:** 2354 bp

**RefSeq ORF:** 1590 bp

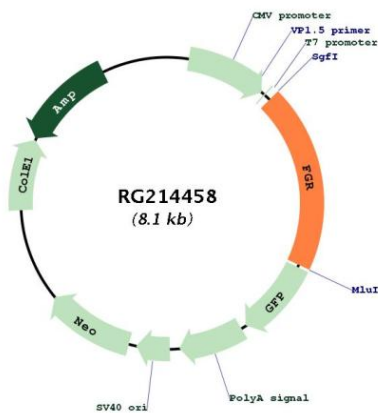
**Locus ID:** 2268

**UniProt ID:** [P09769](#)

**Cytogenetics:** 1p35.3

<b>Domains:</b>	ptkinase, SH2, TyrKc, SH3, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Chemokine signaling pathway
<b>Gene Summary:</b>	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 RG214458