

Product datasheet for **SC323444**

FGR (NM_005248) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGR (NM_005248) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGR
Synonyms:	c-fgr; c-src2; p55-Fgr; p55c-fgr; p58-Fgr; p58c-fgr; SRC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323444 sequence for NM_005248 edited (data generated by NextGen Sequencing)

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ATGGGCTGTGTCTTCAAGAAATTGGAGCCGGTGGCCACGGCCAAGGAGGATGCTGGC
CTGGAAGGGGACTTCAGAAGCTACGGGGCAGCAGACCCTATGGGCTGACCCCACTAAG
GCCCGGCTGCATCCTCATTGCCCACATCCCCAACTACAGCACTTCTCCTCTCAGGCC
ATCAACCTGGCTTCTTGATAGTGGCACCATCAGGGGTGTGTCAGGGATTGGGGTACC
CTGTTCAATGGCTGTATGACTATGAGGCTCGAAGTGGAGGATGACCTCACCTTCAACAAG
GGCAGAAAGTTCACATCCTGAACAATACTGAAGGTGACTGGTGGGAGGCTCGGTCTCTC
AGCTCCGAAAAAAGTGGCTGCATTCCCAGCAACTACGTGGCCCTGTTGACTCAATCCAA
GCTGAAGAGTGGTACTTTGAAAAGATTGGGAGAAAGGATGCAGAGAGGCAGCTGCTTTCA
CCAGGCAACCCCAAGGGGCTTTCTCATTGCGGAAAGCGAGACCACAAAGGTGCCTAC
TCCCTGTCCATCCGGGACTGGGATCAGACCAGAGGCGATCATGTGAAGCATTACAAGATC
CGCAAAGTGGACATGGGCGGCTACTACATCACCACACGGGTTCACTCACTCGGTGCAG
GAGCTGGTGCAGCACTACATGGAGGTGAATGACGGGCTGTCAACCTGCTCATCGCGCC
TGCACCATCATGAAGCCGAGACGCTGGGCTGGCCAAGGACGCCTGGGAGATCAGCCGC
AGCTCCATCACGCTGGAGCGCCGCTGGCACCAGGCTGCTTCGGGATGTGTGGCTGGGC
ACGTGGAACGGCAGCACTAAGGTGGCGGTGATGACGCTGAAGCCGGGCACCATGTCCCGG
AAGGCCTTCTGGAGGAGGCGCAGGTGATGAAGCTGCTGCGGCACGACAAGCTGGTGCAG
CTGTACGCGGTGGTGTGCGGAGGAGCCATCTACATCGTGACCGAGTTCATGTGTCACGGC
AGCTTGTGGATTTTCTCAAGAACCAGAGGGCCAGGATTTGAGGCTGCCCAATTGGTG
GACATGGCAGCCAGGTAGTGGGGCATGGCCTACATGGAACGCATGAACACTACATTAC
CGCGACCTGAGGGCAGCCAACATCCTGGTTGGGAGCGGCTGGCGTCAAGATCGCAGAC
TTTGGCTTGGCGGCTCATCAAGGACGATGAGTACAACCCCTGCCAAGGTTCCAAGTTC
CCCATCAAGTGGACAGCCCGAGAAGCTGCCCTCTTTGGCAGATTACCATCAAGTCAAG
GTGTGGTCTTTGGGATCCTGCTCACTGAGCTCATCACCAGGGCCGAATCCCCTACCCA
GGCATGAATAAACGGGAAGTGTGGAACAGGTGGAGCAGGGCTACCACATGCCGTGCCCT
CCAGGCTGCCAGCATCCCTGTACGAGGCCATGGAACAGACCTGGCGTCTGGACCCGGAG
GAGAGGCTACCTTCGAGTACCTGCAGTCTTCTGGAGGACTACTTCACCTCCGCTGAA
CCACAGTACCAGCCGGGATCAGACATAG
    
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Clone variation with respect to NM_005248.2
872 a=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_005248 unedited

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ACCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTT
AGTGAA
CCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGCGAATTCGGCAGGAGCCGGCACTCGCGGC
TGCTGGAGCCCCGGCTGGCTCACCCGGGGCCGGCAGAAATTTGGCTCCAGGTCTCTGACCCCTCCCAAG
GATCATGCCGCAGCCCCACTGACCCAGGAGTAGGGGCCTAAGGGCAGGGAACCTGGAATGGGCTGTGTGT
TCTGCAAGAAATTGGAGCCGGTGGCCACGGCCAAGGAGGATGCTGGCCTGGAAGGACTTCAGAAAAGCTA
CGGGGCAGCAGACCACTATGGGCTGACCCCACTAAGGCCCGGCTGCATCCCTCATTTGCCCCACATC
CCCAACTACAGCAACTTCTCCTCTCAGGCCATCAACCCTGCTTCTTGATAGTGGCACCATCAGGGTGTG
TCAGGATGGGGTACCTGGTCAATGCCTGTGACTTTAAGCTCGAACTAAGAGACTACTTCCCAAGGCAA
AAGTTCATCCTGACATCCTGAGGAACTGTGAGCTCGTTCTCACTCGAAAAGTCTATTCCAGCACACT
GCCCTGTTGACTATCCACCTAAAAGTACTTGAATTTGAAAGGACGAAAGCATCTTTCAGGACAGGGC
CTTACTCGGACAACCAGGCTTCGGTCTGTGTGTAAGAAA
    
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Kinase Domain Sequence:

>SC323444 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

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CKGRCRCGGCTGGGCACGGCTGCTTCGGGGATGTGTGGCTGGGCACGTGGAACGGCAGCACTAAGGTGG
CGGTGATGACGCTGAAGCCGGGCACCATGTCCCCGAAGGCCTTCTGGAGGAGGCGCAGGTGATGAAGCT
GCTGCGGCAGACAAGCTGGTGCAGCTGTACGCCGTGGTGTGCGGAGGAGCCATCTACATCGTGACCCGAG
TTCATGTGTACGGCAGCTTCTGATTTTCTCAAGAACCAGAG
    
```

Restriction Sites:	Please inquire
ACCN:	NM_005248
Insert Size:	2450 bp
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:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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_005248.1 , NP_005239.1
RefSeq Size:	2354 bp
RefSeq ORF:	1590 bp
Locus ID:	2268
UniProt ID:	P09769
Cytogenetics:	1p35.3
Domains:	pkinase, SH2, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway

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 palmitoylation, 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]

Transcript Variant: This variant (1) initiates at exon M4 and represents the longest transcript. It is expressed in myelomonocytic cells. Variants 1, 2, and 3 encode the same isoform.