

## Product datasheet for **SC116870**

### **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><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_005248 edited  
 ATGGGCTGTGTCTTGCAGAAATTGGAGCCGGTGGCCACGGCCAAGGAGGATGCTGGC  
 CTGGAAGGGGACTTCAGAAGCTACGGGGCAGCAGACCCTATGGGCTGACCCCACTAAG  
 GCCCGGCTGCATCCTCATTGGCCACATCCCCAACTACAGCAACTTCTCCTCTCAGGCC  
 ATCAACCTGGCTTCTTGATAGTGGCACCATCAGGGGTGTGTGAGGATGGGGTGACC  
 CTGTTTATTGCCCTGTATGACTATGAGGCTCGAACTGAGGATGACCTCACCTTCCACCAAG  
 GCGGAGAAGTCCACATCCTGAACAATACTGAAGGTGACTGGTGGGAGGCTCGGTCTCTC  
 AGCTCCGGAAAACTGGCTGCATTCAGCAACTACGTGGCCCTGTTGACTCAATCCAA  
 GCTGAAGAGTGGTACTTTGAAAAGATTGGGAGAAAAGGATGCAGAGAGGCAGCTGCTTCA  
 CCAGGCAACCCCAAGGGGCTTTCTCATTGCGGAAAAGCGAGACCACAAAGGTGCCTAC  
 TCCCTGTCCATCCGGGACTGGGATCAGACCAGAGGCGATCATGTGAAGCATTACAAGATC  
 CGCAAAGTGGACATGGGCGGCTACTACATCACCACACGGGTTCACTTCACTCGGTGCAG  
 GAGCTGGTGCAGCACTACATGGAGGTGAATGACGGGCTGTGCAACCTGCTCATCGCGCC  
 TGCACCATCATGAAGCCGACAGCTGGGCTGGCCAAGGACGCCTGGGAGATCAGCCG  
 AGCTCCATCACGCTGGAGCGCCGGCTGGCACCAGGCTGCTTCGGGATGTGTGGTGGGC  
 ACGTGGAAACGGCAGCACTAAGGTGGCGGTGAAGACGCTGAAGCCGGGCACCATGTCCCCG  
 AAGGCCTTCTGGAGGAGGCGCAGGTCATGAAGCTGCTGCGGCACGACAAGCTGGTGCAG  
 CTGTACGCCGTGGTGTGCGGAGGAGCCATCTACATCGTGACCGAGTTCATGTGTACGGC  
 AGCTTGTGGATTTTCTCAAGAACCCAGAGGGCCAGGATTTGAGGCTGCCCAATTGGTG  
 GACATGGCAGCCAGGTAGCTGAGGGCATGGCCTACATGGAACGCATGAAGTACATTAC  
 CGCGACCTGAGGGCAGCAACATCCTGGTTGGGAGCGGCTGGCGTGAAGATCGCAGAC  
 TTTGGCTTGGCGGTCTCATCAAGGACGATGAGTACAACCCCTGCCAAGGTTCCAAGTTC  
 CCCATCAAGTGGACAGCCCAAGCTGCCCTCTTTGGCAGATTACCATCAAGTCAAGC  
 GTGTGGTCTTTGGGATCCTGCTACTGAGCTCATCACCAAGGGCCGAATCCCTACCCA  
 GGCATGAATAAACGGGAAGTGTGGAACAGGTGGAGCAGGGCTACCACATGCCGTGCCCT  
 CCAGGCTGCCAGCATCCCTGTACGAGGCCATGGAACAGACCTGGCGTCTGGACCCGGAG  
 GAGAGGCTACCTTCGAGTACCTGCAGTCTTCTGGAGGACTACTTACCTCCGCTGAA  
 CCACAGTACCAGCCGGGATCAGACATAG

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_005248 unedited  
 TTACGATTTTGTAAACGACTTACTATAGGGCGGCCGNAATCGGCACGAGGCCGGCAC  
 TCGCGGCTGCTGGAGCCCGGCTGGCTACCCCGGGGCCGGCAGAAATGGGCTCCAGGT  
 CTCTGACCCCTCCAAGGATCATGCCGACCCCACTGACCCAGGAGTAGGGGCTAAGG  
 GCAGGGAACTGGAAATGGGCTGTGTGTTCTGCAAGAAATGGAGCCGGTGGCCACGGCCA  
 AGGAGGATGCTGGCCTGGAAGGGGACTTCAGAAGCTACGGGGCAGCAGACCACTATGGGC  
 CTGACCCCACTAAGGCCCGGCTGCATCCTCATTGGCCACATCCCCAACTACAGCAACT  
 TCTCCTCAGGCCATCAACCCTGGCTTCTTGTATAGTGGCACCATCAGGGGTGTGTGAG  
 GGATTGGGGTACCCTGTTCAATTGCCCTGTATGACTATGAGGCTCGAACTGAGGATGACC  
 TCACCTTACCAAGGGCAGAAAGTTCACATCCTGAACAATACTGAAGGTGACTGGTGGG  
 AGGCTCGGTCTCTCAGCTCCGAAAAACTGGTGCATTCCAGCAACTACGTGGCCCTG  
 TTGACTCAATCAAGCTGAAGAGTGGTACTTTGAAAAGATTGGGAGAAAGGATGCAGAGA  
 GGCAGTGTCTTACCAGGCAACCCCAAGGGGCTTTCTCATTGCGGAAAAGCGAGACCA  
 CCAAAGGTGCCTACTCCCTGTCCATCCGGGACTGGGATCAGACCAGAGGCGATCATGTGA  
 AGCATTTACAGATCCGCANACTGGACATGGGCGGCTACTACATCACCACACGGGGTTCA  
 TCAACTCGGTGGCAGAGCTGGTGCAGCACTACATGGNAGGTGAATGACGGGCTGTGCAA  
 CCTGCTCATCGGCCCTGCACCATCATGAAGCCGACAGCCTGGNCTGGCCN

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005248 unedited TGGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT AGGATTTCATATTGGCATTACTTATTTACAGAATCAATAAACCAACACATACACTAT TCAGAGAGGGGGGAGTGCTCTGCAACCTTCTCCCTCAAACCTGGGCCAGACCCAGTC CTGGACCACTGCATCCACCCAGCAGGAAAGGGTCCAGCCAAGACTTTTCCTGACTTTGT AACTTACAGACACAAGAGAATAGAGGGTAGAAGGAAATCTTGGCACCTGGACTAGAGT GAGATAAAAGGAGAGTAGGAAAGCAGTGATAGGAGAGAAGTGAGGGAGGTACATACAGTT TTATAAATAACTAGACAAGGTCTGAGCACTTTGGGTGGGGATGGAGTGAGAAAGCTACA GGCATGTAGGGCCCTAAGTGAAAAGGAAGAAATAGTGCTTGGGCCAGAGCGGATGAGA GATCAGCTCTGGGCCTCTTTTGCCTCATCTGTAACAAGTAGGTTGCCCTAGGTGGT TCAGAGACGCCACGTCCTCGGTGATGCTAGGACTCTATGGGGTTCTAAGCCAGCCTGGG GCTTTGGAAGAACAGCTCTGGGATTGGCAAGGACTGGTGGCCACCGCCAGAGAGGGTTG ATGCCCGACAGGCTATGTCTGATCCCCGGCTGGTACTGTGGTTCAGCGGAGGTGAAGT AGTCTCCAGGAGACTGCAGGTACTNCGAGGTAGGCCTCTCTCCGGTCCAGACGCCA GGTCTGTTCCATGCCCTGTGAGGATGCTGGNCAANCTGGAGGGCACCGCATGTGGGTA CCCTGCTCCACCTGTCCAACACTTCCGTTTTTCATGCCTGGGTAGGGGATTCGCCCTT GGGATGAGCTCAATGAGCCAGATC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005248
<b>Insert Size:</b>	2450 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005248.1</a> , <a href="#">NP_005239.1</a>
<b>RefSeq Size:</b>	2354 bp
<b>RefSeq ORF:</b>	1590 bp
<b>Locus ID:</b>	2268
<b>UniProt ID:</b>	<a href="#">P09769</a>
<b>Cytogenetics:</b>	1p35.3
<b>Domains:</b>	pkinase, SH2, TyrKc, SH3, S_TKc
<b>Protein Families:</b>	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.