

## Product datasheet for **SC128259**

### FYN (NM\_153047) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FYN (NM_153047) Human Untagged Clone
Tag:	Tag Free
Symbol:	FYN
Synonyms:	p59-FYN; SLK; SYN
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153047, the custom clone sequence may differ by one or more nucleotides

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ATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAACAAAAGTACGGAGGAGAGGGACGGCAGCCTGAACC
AGAGCTCTGGGTACCGCTATGGCACAGACCCCACCCCTCAGCACTACCCAGCTTCGGTGTGACCTCCAT
CCCCAACTACAACAACCTCCACGCAGCCGGGGCCAAAGGACTCACCGTCTTTGGAGGTGTGAACCTTTCC
TCTCATACGGGGACCTTTCGTACGAGAGGAGGAACAGGAGTGACACTCTTTGTGGCCCTTTATGACTATG
AAGCACGGACAGAAGATGACCTGAGTTTTCAAAAGGAGAAAAATTTCAAATATTGAACAGCTCGGAAGG
AGATTGGTGGGAAGCCCGCTCCTTGACAACTGGAGAGACAGGTTACATCCAGCAATTATGTGGCTCCA
GTTGACTCTATCCAGGCAGAAGAGTGGTACTTTGGAAAAGTGGCCGAAAAGATGCTGAGCGACAGCTAT
TGTCTTTTGGAAACCAAGAGGTACCTTTCTTATCCGCGAGAGTGAAACCACAAAGGTGCCTATTTCACT
TTCTATCCGTGATTGGGATGATATGAAAGGAGACCATGTCAAACATTATAAAATTCGAAACTTGACAAT
GGTGGATACTACATTACCACCCGGGCCAGTTTGAACACTTCAGCAGCTGTACAACATTACTCAGAGA
AAGCTGATGGTTTGTGTTTTAACTTAACTGTGATTGCATCGAGTTGTACCCACAAACTTCTGGATTGGC
TAAAGATGCTTGGGAAGTTGCACGTCGTTGTTGTCTGGAGAAGAAGCTGGGTGAGGGGTGTTTCGCT
GAAGTGTGGCTTGGTACCTGGAATGGAACACAAAAGTAGCCATAAAGACTCTTAAACAGGCACAATGT
CCCCGAATCATTCTTGAGGAAGCGCAGATCATGAAGAAGCTGAAGCAGACAAGCTGGTCCAGCTCTA
TGCACTGGTGTCTGAGGAGCCCTCTACATCGTCACCGAGTATATGAACAAAGGAAGTTTACTGGATTTT
TAAAAGATGGAGAAGGAAGAGCTCTGAAATTACCAAATCTTGTGGACATGGCAGCACAGGTGGCTGCAG
GAATGGCTTACATCGAGCGCATGAATTATCCATAGAGATCTGCGATCAGCAAACATTCTAGTGGGGAA
TGGACTCATATGCAAGATTGCTGACTTCGGATTGGCCGATTGATAGAAGACAATGAGTACACAGCAAGA
CAAGGTGCAAAGTTCCCCATCAAGTGGACGGCCCCCGAGGCAGCCCTGTACGGGAGGTTCAATCAAGT
CTGACGTGTGGTCTTTTGAATCTTACTCACAGAGCTGGTCACCAAAGGAAGAGTGCCATACCCAGGCAT
GAACAACCGGGAGGTGCTGGAGCAGGTGGAGCGAGGCTACAGGATGCCCTGCCCGCAGGACTGCCCATC
TCTCTGCATGAGCTCATGATCCACTGCTGGAAAAGGACCTGAAGAACGCCCACTTTTGGACTTGTG
AGAGCTTCTGGAAGACTACTTTACCGGCACAGAGCCCCAGTACCAACCTGGTGAACCTGTAA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_153047 unedited  
 AGGTCGAACATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGTTTTTT  
 TGAAGAAGCAGGATGCTGATCTAAACGTGGAAAAAGACAGTCCTGCCTCTGTTGTAGAAG  
 ACATGTGGTGTATATAAAGTTTGTGATCGTTGGCGGAAATTTTGGAAATTTAGATAATGGG  
 CTGTGTGCAATGTAAGGATAAAGAAGCAACAAAACACTGACGGAGGAGAGGGACGGCAGCCT  
 GAACCAGAGCTCTGGGTACCGCTATGGCACAGACCCACCCTCAGCACTACCCAGCTT  
 CGGTGTGACCTCCATCCCAACTACAACAACCTCCACGCAGCCGGGGGCCAAGGACTCAC  
 CGTCTTTGGAGGTGGAACCTCTTCGTCTCATACGGGGACCTTGCGTACGAGAGGAGGAAC  
 AGGAGTGACACTCTTTGTGGCCCTTTATGACTATGAAGCACGGACAGAAGATGACCTGAG  
 TTTTCACAAAGGAGAAAAATTTCAAATATTGAACAGCTCGGAAGGAGATTGGTGGGAAGC  
 CCGCTCCTTGACAACCTGGAGAGACAGGTTACATCCCAGCAATTATGTGGCTCCAGTTGA  
 CTCTATCCAGGCAGAAGAGTGGTACTTTGGAAAACCTGGCCGANAAGATGCTGAGCGACA  
 GCTATTGCCTTTGGAAAACCCAGAGTACCTTTCTTATCCGCGAGAGTAAAACCCACAAA  
 GTGCCATTCACTTTCTATCCGTGATTGGGATGATATGAAAGGAGACCATGTCAAACATT  
 ATAAAATTCGGCAACTTTGACATGGTGGATACTACATTNACCACCCGGGCCCCAGTTTNG  
 AAACACTTTCAGCAGCTTGGTACAACATTACTCANAGAAAAGCTGATGGTTTNGTTTTAA  
 CTTAACTGTGATTGCATCGAGTTTTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_153047 unedited  
 NCCACATTGGNATGGCACTTCCAGGNCCAGNAAAGCACTGGGNGAGGTCACAGGGATGC  
 CACCCGGGATCTGTTCCAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTT  
 TTTTTTTTTTTTTTTTTTTTGTAAAACATGAAAAAATTTTATTGTTTTAGACAAAGAG  
 GCCACTTTTGGAAAATAACTTTTTTTTTTTTTTAGTTGAATCAGGTGAAGACAGAGTTA  
 AAATCACATAGGATTTGCATTTTTAAAAAAGGAAAGCACTAGGATTGTTGGCACTGGAGT  
 AACTATTTACACTGAACAGAGGTTTGGCCTTTTACATAACATCGATACAATGCATTTTCC  
 AAAGTCTGAGAAATAACAAGTTCTGTCTCGAATGCTTACAGAGGAGGTTCCGATTTGG  
 GGACAAGTGCATTAATGAGGGCCATGGAAGTTGTCAGCTTACAGATCACATGCAATCT  
 GATCCTGGGCGGTTCCGCTGCTGGGGAGCAGCTGGCTACGGAATTGAAAGCTAATGGGGA  
 GGGGTGGGGCAGCCTCTGGGACAAGGCCTCTCTCCGACAGCCGGGCCTTACAGGTTTTT  
 ACCAGGTTGGTACTGGGGCTCTGTCCGGTAAAGTAGTCTTCCAGGAAGCTCTGCAAGTA  
 CTCAAAGTGGGGCGTTCTTCAGGGTCTTTTTCCAGCAGTGGATCATGAGCTCATGCAG  
 AGAGATGGGGCAGTCTCGGGCAGGGCATCCTGTAGCCTCGCTCCACCTGCTCCAGCAC  
 CTTCCCGTTGTTTCATGCCTGGGTATGGCACNTCTCCTTTGGTGACCAGCTCTGTGAGTAA  
 GATTCAAAAGACCACACGTCAGACTTGATTGTGAACCTNCCGTACAGGGCTGCCCTCGG  
 GGCCGTCC

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_153047

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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_153047.1</a> , <a href="#">NP_694592.1</a>
<b>RefSeq Size:</b>	2073 bp
<b>RefSeq ORF:</b>	1605 bp
<b>Locus ID:</b>	2534
<b>UniProt ID:</b>	<a href="#">P06241</a>
<b>Cytogenetics:</b>	6q21
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Adherens junction, Axon guidance, Fc epsilon RI signaling pathway, Focal adhesion, Natural killer cell mediated cytotoxicity, Pathogenic Escherichia coli infection, Prion diseases, T cell receptor signaling pathway, Viral myocarditis

**Gene Summary:**

This gene is a member of the protein-tyrosine kinase oncogene family. It encodes a membrane-associated tyrosine kinase that has been implicated in the control of cell growth. The protein associates with the p85 subunit of phosphatidylinositol 3-kinase and interacts with the fyn-binding protein. Alternatively spliced transcript variants encoding distinct isoforms exist. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR, and lacks an alternate in-frame exon but includes a different in-frame exon in the central coding region, compared to variant 1. The encoded isoform (b) is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.