

Product datasheet for **SC118862**

FYN (NM_002037) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FYN (NM_002037) Human Untagged Clone
Tag:	Tag Free
Symbol:	FYN
Synonyms:	p59-FYN; SLK; SYN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118862 sequence for NM_002037 edited (data generated by NextGen Sequencing)

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ATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAACAAAACACTGACGGAGGAGAGGGACGGC
AGCCTGAACCAGAGCTCTGGGTACCGCTATGGCACAGACCCACCCTCAGCACTACCCC
AGCTTCGGTGTGACCTCCATCCCCAACTACAACAACCTCCACGCAGCCGGGGGCAAGGA
CTCACCGTCTTTGGAGGTGTGAACCTTCGTCTCATACGGGACCTTGCCTACGAGAGGA
GGAACAGGAGTGACACTTTTGTGGCCCTTATGACTATGAAGCACGGACAGAAGATGAC
CTGAGTTTTCACAAAGGAGAAAAATTTCAAATATTGAACAGCTCGGAAGGAGATTGGTGG
GAAGCCCCTCCTTGACAACCTGGAGAGACAGGTTACATTCACAGCAATTATGTGGCTCCA
GTTGACTCTATCCAGGCAGAAGAGTGGTACTTTGGAAAACCTTGGCCGAAAAGATGCTGAG
CGACAGCTATTGCTCTTTGGAAACCCAAGAGGTACCTTTCTTATCCGCGAGAGTGAACCC
ACCAAAGGTGCCTATTCACCTTTCTATCCGTGATTGGGATGATATGAAAGGAGACCATGTC
AAACATTATAAAAATTCGCAAACTTGACAATGGTGGATACTACATTACCACCCGGGCCAG
TTTGAAACACTTCAGCAGCTTGTACAACATTACTCAGAGAGAGCTGCAGGTCTCTGCTGC
CGCTAGTAGTCCCTGTACAAAGGGATGCCAAGGCTTACCGATCTGTCTGTCAAACCC
AAAGATGTCTGGGAAATCCCTCGAGAATCCCTGCAGTTGATCAAGAGACTGGGAAATGGG
CAGTTTGGGGAAGTATGGATGGGTACCTGGAATGGAAACACAAAAGTAGCCATAAAGACT
CTTAAACCAGGCACAATGTCCCCGAATCATTCTTTGAGGAAGCGCAGATCATGAAGAAG
CTGAAGCACGACAAGCTGGTCCAGCTCTATGCAGTGGTGTCTGAGGAGCCCATCTACATC
GTCACCGAGTATATGAACAAAGGAAGTTTACTGGATTTCTTAAAAGATGGAGAAGGAAGA
GCTCTGAAATTACCAAATCTTGTGGACATGGCAGCACAGGTGGCTGCAGGAATGGCTTAC
ATCGAGCGCATGAATTATCCATAGAGATCTGCGATCAGCAAACATTCTAGTGGGAAT
GGACTCATATGCAAGATTGCTGACTTCGGATTGGCCCGATTGATAGAAGACAATGAGTAC
ACAGCAAGACAAGGTGCAAAGTTCCCCATCAAGTGGACGGCCCCCGAGGCAGCCCTGTAC
GGGAGGTTCACAATCAAGTCTGACGTGTGGTCTTTTGAATCTTACTCACAGAGCTGGTC
ACCAAAGGAAGAGTGCCATACCCAGGCATGAACAACCGGGAGGTGCTGGAGCAGGTGGAG
CGAGGCTACAGGATGCCCTGCCCGCAGGACTGCCCATCTCTCTGCATGAGCTCATGATC
CACTGCTGAAAAAGACCCTGAAGAACGCCCACTTTTGTAGTACTTGCAGAGCTTCTGTG
GAAGACTACTTTACCGCGACAGAGCCCCAGTACCAACCTGGTGAACCTGTAA
    
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Clone variation with respect to NM_002037.5

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002037 unedited
TCGGCACGAGGGTTGTGCGAGCGGCGCTCTCTCCCGCCGGGCGCGCCGCTTCTCC
CAGCGCACCGAGGACCGCCCGGGCGCACACAAAGCCGCGCCCGCGCCGACCGCCCGG
GGCCCGCCCGCCGCGCCAGGGAGGATTCGGCCGCGGGCCGGGGACACCCCGCGCCG
CCCTCGGTGCTCTCGGAAGGCCACCGGCTCCCGGGCCCGGGGACCCCGGAGCCG
CCTCGGCCGCGCCGAGGAGGGCGGGAGAGGACCATGTGAGTGGCTCCGGAGCCTCAG
CGCCGCGCAGTTTTTTTTGAAGAAGCAGGATGCTGATCTAAACGTGAAAAAGACCAGTCC
TGCTCTGTTGTAGAAGACATGTGGTGTATATAAAGTTTGTGATCGTTGGCGAAATTTT
GGAATTTAGATAATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAACAAAACACTGACGGAG
GAGAGGGACGGCAGCCTGAACCAGAGCTCTGGGTACCGCTATGGCACAGACCCACCCT
CAGCACTACCCAGCTTCGGTGTGACCTCCATCCCCAACTACAACAACCTCCACGCAGCC
GGNGGCCAAGGACTCACCGTCTTTGGAGGTGTGAACCTTCGTCTCATACGGGACCTTG
CGTACGAGAGGAGGAACAGGAGTGACACTCTNTGTGGCCCTTATGACTATGAAGCACGG
ACAGAAGATGACCTGAGTTNTCACAAAGGAGAAAAATTTCAAATATTGAACAGCTCGAAN
GGAGATGGTGGGAGCCCGCTCCTTGACACTGGAGAGAAGGGTACATTCCAGCATTATGT
GGCTCCAGTTGACTCTATT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002037 unedited CACTGGGGGCAGGGGTACACAGGGCATGCCACTCCGGGTATCTGTTCAGGAAAACAGCTA TGACCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGTTGAATCAGGTGA AGACAGAGTTAAATCACATAGGATTTGCATTTTTAAAAAAGGAAAGCACTAGGATTGTT GGCCTGAAGTAACTATTTACTGTAACAGAGTTTGGCCTTTTACATAACATCGATACA ATGCATTTTCCAAAGTCTGAGAAATAACAAGTTCTGTCTCGAATGCTTCACAGAGGAGG TTCNGATTTGGGACAAGTGTTATTAAGAAGGCCGAGGAAGCTCCAGAACATCATAGTG AGACGCAATCAAAAAACAAGCAATATACGAGCAAAATGAAAAAGAAGGAGAAAGGGGGAG GGCGCAGCAGACGGACCTCCAAAAACAAAACAAAAAGGAAAGAAACAAATAGGGCGGA CGCAAGAAATTGAGCGATATAGAGGGGAGATAGTAAAAAAAAGGCCCGCAGAAGGAAC AGAAAAATCGTCGCAAGCGACCCGAAACACGAACAGTAAATAGAGAAGACGAAAAGGGGAC CCGAACGGCGGATCATGGAGAATAGTATAAGAAGAAGGACAAAAGAAGACAGTCAAACAG AAAGCAACGAGGCCGAGAAGTACCCAAGATGCGGAGTGCGGCGGGCGTGGGAAAAGAAA GATCGGGAGTGGTGGAGAAGAAATGAGGGGGCTATAGAGAGTGAAGTCAAGCCGAAAAAGA AGTACGGACTCCACGAATAAAACAATCCAGCGGGCATGCAGAGACCGGCAAGTTACC GAAACAGTATACGATTGTGTCTTCAGATGTATCGTGAATAAAAGACGATAGCAGAACATA CGACACAAGACTCTN
Restriction Sites:	NotI-NotI
ACCN:	NM_002037
Insert Size:	2500 bp
OTI Disclaimer:	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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_002037.3 , NP_002028.1
RefSeq Size:	2650 bp

RefSeq ORF:	1614 bp
Locus ID:	2534
UniProt ID:	P06241
Cytogenetics:	6q21
Domains:	pkinase, SH2, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	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:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest 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.</p>