

Product datasheet for **SC323428**

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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_002037, the custom clone sequence may differ by one or more nucleotides

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ATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAACAACTGACGGAGGAGAGGGACGGCAGCCTGAACC
AGAGCTCTGGGTACCGCTATGGCACAGACCCACCCCTCAGCACTACCCAGCTTCGGTGTGACCTCCAT
CCCCACTACAACAACCTCCACGCAGCCGGGGCCAAGGACTACCGTCTTTGGAGGTGTAACCTTCG
TCTCATACGGGGACCTTCGCTACGAGAGGAGGAACAGGAGTGACACTCTTTGTGGCCCTTTATGACTATG
AAGCACGGACAGAAGATGACCTGAGTTTTCAAAAGGAGAAAAATTTCAAATATTGAACAGCTCGGAAGG
AGATTGGTGGGAAGCCGCTCCTTGACAACTGGAGAGACAGGTTACATCCCAGCAATTATGTGGCTCCA
GTTGACTCTATCCAGGCAGAAGAGTGGTACTTTGGAAAACCTGGCCGAAAAGATGCTGAGCGACAGCTAT
TGTCTTTGGAACCCAAGAGGTACCTTTCTTATCCGCGAGAGTGAAACCACCAAGGTGCCTATTCAGT
TTCTATCCGTGATTGGGATGATATGAAAGGAGACCATGTCAAACATTATAAAATTCGAACTTGACAAT
GGTGGATACTACATTACCACCCGGGCCAGTTTGAACACTTCAGCAGCTTGACAACATTACTCAGAGA
GAGCTGCAGGTCTCTGCTGCCGCTAGTAGTTCCTGTCAAAAGGGATGCCAAGCTTACCGATCTGTC
TGTCAAAACCAAGATGTCTGGGAAATCCCTCGAGAATCCCTGCAGTTGATCAAGAGACTGGGAAATGGG
CAGTTTGGGAAGTATGGATGGGTACCTGGAATGGAAACACAAAAGTAGCCATAAAGACTCTTAAACCAG
GCACAATGTCCCCGAATCATTCTTGAGGAAGCGCAGATCATGAAGAAGCTGAAGCAGCACAAGCTGGT
CCAGCTCTATGCACTGGTGTCTGAGGAGCCCATCTACATCGTCACCGAGTATATGAACAAAGGAAGTTA
CTGGATTTCTTAAAGATGGAGAAGGAAGAGCTCTGAAATTACCAATCTTGTGGACATGGCAGCACAGG
TGGCTGCAGGAATGGCTTACATCGAGCGCATGAATTATCCATAGAGATCTGCGATCAGCAAACATTCT
AGTGGGAATGGACTCATATGCAAGATTGCTGACTTCGGATTGGCCGATTGATAGAAGACAATGAGTAC
ACAGCAAGACAAGGTGCAAGTTCCCCATCAAGTGGACGGCCCCGAGGCAGCCCTGTACGGGAGGTTCA
CAATCAAGTCTGACGTGTGGTCTTTTGAATCTTACTCACAGAGCTGGTCACCAAGGAAGAGTGCCATA
CCCAGGCATGAACAACCGGAGGTGCTGGAGCAGGTGGAGCGAGGCTACAGGATGCCCTGCCCGCAGGAC
TGCCCCATCTCTGCTGATGAGCTCATGATCCACTGCTGAAAAAGGACCCTGAAGAACGCCCCACTTTTG
AGTACTTGCAGAGCTTCTGGAAGACTACTTTACCGCGACAGAGCCCGAGTACCAACCTGGTGAAAACT
GTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_002037 unedited

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ACCGCCCGTCCAGCAAAGGGCGGTAGGCCTGTACGGTGGGAGGTTCTATATAAGCAGAGCTCGTTAGT
GAACCGTCAGAATCTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTTTTTTGA
GAAGCAGGATGCTGACTTAAACGTGAAAAAGACCAGTCTGCCTCTGTTGTAGAAGACATGTGGTGTA
TATAAAGCTTGTGATCGTTGGCGGAAATTTTGAATTTAGATAATGGGCTGTGTCAATGTAAGGATAAA
GAAGCAACAACTGACGGAGGAGAGGGACGGCAGCCTGAACCAGAGCTCTGGGTACCGCTATGGCACAG
ACCCACCCCTCAGCACTACCCACGCTTCGGGTGGTACCTCCATCCCAACTACAACCACTTTCCA
CGCCAGCCCGGGGCAAAGGACTCCCGTCTTTGGAGGGTGTGAACCTCTTCTTATTACGGGAACCTT
GCGTACAAAAGGAGGAACAGAGATTGACACTCTTGGTGGCCCTTTATAACAATGAGGAACGACGGAGAA
TGACTGGAGTTTTCAAAAAGGAAAAAATTCAAATATTTAAAAGCCCTGGAAAGAGATTGGGGGGGAACC
CCGCTCTCTGACCAATGGGGAGACAGTTACATTTCCAGCGCATATTGTGGGGCCCCGTAGACTCTACC
CACGCAGAGAGGTGACACTTTGAAACCTCTGCCAAAGATGCTGAACACAACCTTTGTGCTCTTTGAACCC
AGAGAGCCTTCTTATACGCGAGATGAGAACCCCAAGTGCCATACACTTCTACCTGATTGGATGATGAA
AGGAACACTGTCACACTATAATCCCACTTGACATGTGTATCACGTAACCGCAGTGACCTCACGACTTGC
CAATCCAAGGTCAGTCTGCGCAATTCTGTCAGATGCAGCTA
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Kinase Domain Sequence:

>SC323428 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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GTGWCAGAGMTGGGAATGGGCAGTTTGGGAAGTATGGATGGGTACCTGGAATGGAAACACAAAAGTAGC
CATAATGACTCTTAAACCAGGCACAATGTCCCCGAATCATTCTTGAGGAAGCGCAGATCATGAAGAAG
CTGAAGCACGACAAGCTGGTCCAGCTCTATGCAGTGGTGTCTGAGGAGCCCATCTACATCGTCACCGAGT
ATATGAACAAAGGAAGTTTACTGGATTTCTTAAAGATGGAGAAG
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Restriction Sites:	Please inquire
ACCN:	NM_002037
Insert Size:	2500 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	<p>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.</p>
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>