

Product datasheet for **SC318910**

LYN (NM_001111097) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYN (NM_001111097) Human Untagged Clone
Tag:	Tag Free
Symbol:	LYN
Synonyms:	JTK8; p53Lyn; p56Lyn
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001111097 edited
 ATGGGATGTATAAAATCAAAGGGAAAGACAGCTTGAGTGACGATGGAGTAGATTTGAAG
 ACTCAACCAAGTTCAGAAATCTCAGCTTTTACCTGGACAGAGGTTTCAAATAAAGATCCA
 GAGGAACAAGGAGACATTGTGGTAGCCTTGTACCCTATGATGGCATCCACCCGGACGAC
 TTGCTTTTCAAGAAAGGAGAGAAGATGAAAGTCCTGGAGGAGCATGGAGAATGGTGGAAA
 GCAAAGTCCCTTTTAAACAAAAAAGAAGGCTTCATCCCCAGCAACTATGTGGCCAAACTC
 AACACCTTAGAAACAGAAGAGTGGTTTTTCAAGGATATAACCAGGAAGGACGCAGAAAGG
 CAGCTTTTGGCACCAGGAAATAGCGCTGGAGCTTTCCTTATTAGAGAAAGTAAACATTA
 AAAGGAAGCTTCTCTGTCTGTCAGAGACTTTGACCCTGTGCATGGTGATGTTATTAAG
 CACTACAAAATTAGAAGTCTGGATAATGGGGGCTATTACATCTCTCCACGAATCACTTTT
 CCCTGTATCAGCGACATGATTAACATTACCAAAGCAGGCAGATGGCTTGTGCAGAAGA
 TTGGAGAAGGCTTGTATTAGTCCCAAGCCACAGAAGCCATGGGATAAAGATGCCTGGGAG
 ATCCCCCGGGAGTCCATCAAGTTGGTGAAAAGGCTTGGCGCTGGGCAGTTTGGGGAAGTC
 TGGATGGGTTACTATAACAACAGTACCAAGGTGGCTGTGAAAACCCTGAAGCCAGGAACT
 ATGTCTGTGCAAGCCTTCTGGAAGAAGCCAACCTCATGAAGACCCTGCAGCATGACAAG
 CTCGTGAGGCTCTACGCTGTGGTCACCAGGGAGGAGCCATTTACATCATCACCGAGTAC
 ATGGCCAAGGGCAGTTTGTCTGGATTTCTGAAGAGCGATGAAGGTGGCAAAGTGTCTGCT
 CCAAAGCTCATTGACTTTTCTGCTCAGATTGCAGAGGGAATGGCATAACATCGAGCGGAAG
 AACTACATTCACCGGACCTGCGAGCAGCTAATGTTCTGGTCTCCGAGTCACTCATGTGC
 AAAATTGCAGATTTTGGCCTTGTAGAGTAATTGAAGATAATGAGTACACAGCAAGGGAA
 GGTGCTAAGTTCCCTATTAAGTGACGGCTCCAGAAGCAATCAACTTTGGATGTTTCACT
 ATTAAGTCTGATGTGGTCTTTTGAATCCTCTATACGAAATTGTCACCTATGGGAAA
 ATTCCCTACCCAGGGAGAACTAATGCCGACGTGATGACCGCCCTGTCCCAGGGCTACAGG
 ACGCCCGTGTGGAGAACTGCCAGATGAGCTCTATGACATTATGAAAATGTGCTGGAAA
 GAAAAGGCAGAAGAGAGACCAACGTTTGGACTACTTACAGAGCGTCTGGATGATTTCTAC
 ACAGCCACGGAAGGGCAATACCAGCAGCAGCCTTAG



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Restriction Sites:	NotI-NotI
ACCN:	NM_001111097
Insert Size:	2200 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:	The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_001111097.1.
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:	<u>NM_001111097.1</u> , <u>NP_001104567.1</u>
RefSeq Size:	3043 bp
RefSeq ORF:	1476 bp
Locus ID:	4067
UniProt ID:	<u>P07948</u>
Cytogenetics:	8q12.1
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	B cell receptor signaling pathway, Chemokine signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Long-term depression

Gene Summary:

This gene encodes a tyrosine protein kinase, which maybe involved in the regulation of mast cell degranulation, and erythroid differentiation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]

Transcript Variant: This variant (2) uses an alternate in-frame donor splice site in the 5' coding region compared to variant 1. This results in a shorter isoform (B) missing an internal protein segment compared to isoform A.