

## Product datasheet for **SC323673**

### LYN (NM\_002350) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LYN (NM_002350) Human Untagged Clone
Tag:	Tag Free
Symbol:	LYN
Synonyms:	JTK8; p53Lyn; p56Lyn
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_002350 edited
GCCACCCCGGCCCGCCGCGCCAGCAGCCCTCGCCGCGCGTCCAGCGTTCCCGGCCAGCAG
CCTCCCCATACGCAGGTCTGTGGGCCGCCCGTTCGCGCCCCCACTCTGAAGTCAAGT
CACCGTGGAGTCCGCGGCCCGAACTTTACCGCGAGCGGAAATATGGGATGTATAA
AATCAAAGGGAAAGACAGCTTGAGTGACGATGGAGTAGATTTGAAGACTCAACCAAGTAC
GTAATACTGAAAGAACTATTTATGTGAGAGATCCAACGTCCAATAAACAGCAAAGGCCAG
TTCCAGAATCTCAGCTTTTACCTGGACAGAGGTTCAAACATAAAGATCCAGAGGAACAAG
GAGACATTGTGGTAGCCTTGTACCCCTATGATGGCATCCACCCGACGACTTGTCTTTCA
AGAAAGGAGAGAAGATGAAAGTCTGGAGGAGCATGGAGAATGGTGGAAGCAAAGTCCC
TTTTAACAAAAAAGAAGGCTTCATCCCCAGCAACTATGTGGCCAACTCAACACCTTAG
AAACAGAAAGAGTGGTTTTTCAAGGATATAACCAGGAAGGACGCAGAAAGGCAGCTTTTGG
CACCAGGAAATAGCGCTGGAGCTTTCCTTATTAGAGAAAGTAAACATTAAGGAAAGCT
TCTCTCTGTCTGCAGAGACTTTGACCCTGTGCATGGTGTGTTATTAAGCACTACAAAA
TTAGAAGTCTGGATAATGGGGCTATTACATCTCTCCACGAATCACTTTTCCCTGTATCA
GGACATGATTAACATTACAAAAGCAGGCAGATGGCTTGTGCAGAAGATTGGAGAAGG
CTTGATTAGTCCAAGCCACAGAAGCCATGGGATAAAGATGCCTGGGAGATCCCCCGGG
AGTCCATCAAGTTGGTGAAGGCTTGGCGCTGGGCAGTTTGGGGAAGTCTGGATGGGTT
ACTATAACAACAGTACCAAGGTGGCTGTGATGACCCTGAAGCCAGGAACTATGTCTGTGC
AAGCCTTCTGGAAGAAGCCAACCTCATGAAGACCCTGCAGCATGACAAGCTCGTGAGGC
TCTACGCTGTGGTCACCAGGGAGGAGCCATTTACATCATCACCGAGTACATGGCCAAGG
GCAGTTTGTGGATTTCTGAAGAGCGATGAAGGTGGCAAAGTGTGCTTCCAAAGCTCA
TTGACTTTTCTGCTCAGATTGCAGAGGGAATGGCATAACATCGAGCGGAAGAACTACATTC
ACCGGGACCTGCGAGCAGCTAATGTTCTGGTCTCCGAGTCACTCATGTGCAAAAATTGCAG
ATTTTGGCCTTGCTAGAGTAATTGAAGATAATGAGTACACAGCAAGGGAAGGTGCTAAGT
TCCTATTAAGTGGACGGCTCCAGAAGCAATCAACTTTGGATGTTTCACTATTAAGTCTG
ATGTGTGGTCTTTGGAATCCTCTATACGAAATTGTCACCTATGGGAAAATTCCCTACC
CAGGGAGAACTAATGCCGACGTGATGACCGCCCTGTCCAGGGCTACAGGATGCCCGTG
TGGAGAACTGCCAGATGAGCTCTATGACATTATGAAAATGTGCTGGAAAGAAAAGGCAG
AAGAGAGACCAACGTTTGACTACTTACAGAGCGTCTGGATGATTTCTACACAGCCACGG
AAGGGCAATACCAGCAGCAGCCTTAGAGCACAGGGAGACCCGTCATTTGGCAGGGGTGG
CTGCCTCATTTAGAGAGGAAAAGTAACCATCACTGGTTGCACTTATGATTTTATGTGCGG
GGATCATCTGCCGTGCCTGGATCCTGAAATAGAGGCTAAATTAAGTCAAGGAAACACCCT
CTAAATGGGAAAGTATTCTGTAAGTCTTAGATGGATTCTCCTCACTCAGTTGCAACTGGACT
TGTCTCAGCAGCTGGTAATCTTGTCTGCTTGACAACATCTGAGTGCAGCCGTTTGGAGA
AGAAAACATCTATTCTCTCCAAAATGCACCAACTAGCTCTATGTTTACAAATGGACAT
AGGACTCAAAGTTTCCAGAGACATTGCAATGAATCCCCAATAATTGCAGAACTAAACTCA
TTTATAAAGCTAAAATAACCCGATATACATAGCATGACATTTCTTTGTGCTTTGGCTT
ACTTGTTTAAAAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_002350 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTGAGAATTTTGTAAATACGACTACTATAGGGCGGCCGCAATTCGGCACGAGCCACCCCGGCCCG CGCCAGCAGCCCCCTCGCCGCGCTCCAGCGTTCGCCGCCAGCAGCTCCCATACGCAGGTCTGCTGGG CCGCCCCGTCGCGCCCCCACTGAACTCAAGTACCGTGGAGCTCCGCCGCCGAACTTTACCCG GAGCGGAAATATGGGATGTATAAAATCAAAGGGAAAGACAGCTTTGAGTGACGATGGAGTAGATTTGA AGACTCAACCAGTACGTAATACTGAAAAGAACTATTTTATGTTGAAGAAAATCAAACGTCCCAAATAA AACAGCAAAGGCCAGTTTCAGAGATTCTCAGGCTTTTTACCCTGGGAACAGGAAGGTTTCAAACCTTA AAGATATCCCGAGAGGAACCAAGGGAACTTTGGGGTAAGGCTTGTGAACCCCTATTGAGTGGGACTCCA CCCCGAGCGATTTTGCCTTTCCAGGAAGGAAGAAAGATGAAGTCTCTTGGAGGGACAGGGGAAAGGGG AAGAGCAAATTCCTTTACACAAAAGAGAGGGTTTCTCCACAGCCTATGGGCCAACTACACCCCTTAA AACAGAGAGTGTTTTAGGGATATCCCCAAGAGACGCAAGGGCCTTTGGACACGAGAAATAGCTGTGAG CTCTCATATGAGAATGGACACTAAGAGGCTCTCTCGTGTGCAGAACTAGACCTGTGATGAGGTTTA GACTCAATTATCTAGATAGGCGCTAATCTCCGAAACACTCGTACCCGGTTATATTTCAAACGC AATGTGTGCAAAATGAAAGACGGTTA
<b>Kinase Domain Sequence:</b>	>SC323673 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation ARCTGGGRACCCGGGAGTCATCAAGTTGGTAAAAGGCTTGGCGCTGGGCAGTTTGGGGAAGTCTGGAT GGGTTACTATAACAACAGTACCAAGGTGGCTGTGATGACCCTGAAGCCAGGAACTATGTCTGTGCAAGCC TTCCTGGAAGAAGCCAACCTCATGAAGACCCTGCAGCATGACAAGCTCGTGAGGCTCTACGCTGTGGTCA CCAGGGAGGAGCCATTTACATCATACCGAGTACATGGCCAAGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_002350
<b>Insert Size:</b>	2200 bp
<b>OTI Disclaimer:</b>	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.  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>
<b>OTI Annotation:</b>	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." <a href="#">Cell, 2008 May p536-548.</a>
<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_002350.1</a> , <a href="#">NP_002341.1</a>
<b>RefSeq Size:</b>	2298 bp
<b>RefSeq ORF:</b>	1539 bp
<b>Locus ID:</b>	4067
<b>UniProt ID:</b>	<a href="#">P07948</a>
<b>Cytogenetics:</b>	8q12.1
<b>Domains:</b>	pkinase, SH2, TyrKc, SH3, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	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
<b>Gene Summary:</b>	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 (1) encodes the longer isoform (A).