

Product datasheet for **SC108492**

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>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002350 edited
 CCGCCGCGCCGGGCGCGCTGCCGCTCGCTCCCCGGCCGTGGCGCCTCCGGGCCAGACGC
 GCTGCAGCCTCCAGCCGCGGCAAGCGGGCGGCCGCGCCACCCCGGCCCGCGCCAGC
 AGCCCCCTCGCCGCGGTCCAGCGTTCCCGGCCAGCAGCCTCCCCATACGCAGGTCTGT
 GGACCGCCCCGTGCGCCCCCACTCTGAACTCAAGTACCCTGGAGCTCCGCCGCCCG
 AAATTTTACCAGCGAGCGGAAATATGGGATGTATAAAATCAAAGGGAAAGACAGCTTG
 AGTGACGATGGAGTAGATTTGAAGACTCAACCAGTACGTAATACTGAAAGAAGTATTTAT
 GTGAGAGATCCAACGTCCAATAAACAGCAAAGGCCAGTTCCAGAATCTCAGCTTTTACCT
 GGACAGAGGTTTCAAAGTAAAGATCCAGAGGAACAAGGAGACATTGTGGTAGCCTTGTAC
 CCCTATGATGGCATCCACCCGGACGACTTGTCTTTCAAGAAAGGAGAGAAGATGAAAGTC
 CTGGAGGAGCATGGAGAATGGTGGAAAGCAAAGTCCCTTTTAAACAAAAAAGAAGCTTC
 ATCCCCAGCAACTATGTGGCCAACTCAACACCTTAGAAACAGAAGAGTGGTTTTTCAAG
 GATATAACCAGGAAGGACGCAGAAAGGCAGCTTTTGGCACCAGGAAATAGCGCTGGAGCT
 TTCCTTATTAGAGAAAGTAAACATTAAGGAAGCTTCTCTGTCTGTGACAGACTTT
 GACCCTGTGCATGGTGTATTATTAAGCACTACAAAATTAGAAGTCTGGATAATGGGGGC
 TATTACATCTCTCCAGCAATCACTTTTCCCTGTATCAGCGACATGATTAACATTACCAA
 AAGCAGGCAGATGGCTTGTGAGAAGATTGGAGAAGGCTTGTATTAGTCCCAAGCCACAG
 AAGCCATGGGATAAAGATGCCTGGGAGATCCCCGGGAGTCCATCAAGTTGGTGAAGG
 CTTGGCGCTGGGCAGTTTGGGAAGTCTGGATGGGTTACTATAACAACAGTACCAAGGTG
 GCTGTGAAAACCTGAAGCCAGGAAGTATGTCTGTGCAAGCCTTCTGGAAGAAGCCAAC
 CTCATGAAGACCTGCAGCATGACAAGCTCGTGAGGCTCTACGCTGTGGTACCAGGGAG
 GAGCCCATTTACATCATCACCGAGTACATGGCCAAGGGCAGTTTGGCTGGATTTCCGTAAG
 AGCGATGAAGGTGGCAAAGTGTCTTCCAAAGCTCATTGACTTTTCTGCTCAGATTGCA
 AGGGAAATGGCATACATCGAGCGGAAGAACTACATTCACCGGACCTGCGAGCAGCTAAT
 GTTCTGGTCTCCGAGTCACTCATGTGCAAAATTGAGATTTTGGCCTTGCTAGAGTAATT
 GAAGATAATGAGTACACAGCAAGGGAAGGTGCTAAGTTCCCTATTAAGTGGACGGCTCCA
 GAAGCAATCAACTTTGGATGTTTCACTATTAAGTCTGATGTGTGGTCTTTGGAATCCTC
 CTATACGAAATGTACCTATGGGAAAATCCCTACCCAGGGAGAACTAATGCCGACGTG
 ATGACCGCCTGTCCAGGGCTACAGGATGCCCGGTGGGAGAACTGCCAGATGAGCTC
 TATGACATTATGAAAATGTGCTGGAAAGAAAAGGCAGAAGAGAGACCAACGTTTGACTAC
 TTACAGAGCGTCTGGATGATTTCTACACAGCCACGGAAGGGCAATACCAGCAGCAGCCT
 TAGAGCACAGGGAGACCGTCCATTTGGCAGGGTGGCTGCCTCATTTAGAGAGGAAAAG
 TAACCATCACTGGTTGCACTTATGATTTTATGTGCGGGGATCATCTGCCGTGCCTGGATC
 CTGAAATAGAGGCTAAATTACTCAGGAAGAACCCCTCTAAATGGGAAAGTATTCTGTAC
 TCTTAGATGGATTCTCCACTCAGTTGCAACTTGGACTTGTCTCAGCAGCTGGTAATCTT
 GCTCTGCTTGACAACATCTGAGTGCAGCCGTTTGGAGAAGAAAACATCTATTCTCTCCAA
 AATGCACCAACTAGCTCTATGTTTACAAATGGACATAGGACTCAAAGTTTCAGAGACCA
 TTGCAATGAATCCCCAATAATTCGAGAATAAACTCATTATAAAGCTAAAATAACCGGA
 TATATACATAGCATGACATTTCTTTGTGCTTTGGCTTACTTGTTTAAAAAAAAAAAAAA

Restriction Sites: NotI-NotI
ACCN: NM_002350
Insert Size: 2300 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](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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_002350.1](#), [NP_002341.1](#)

RefSeq Size: 2298 bp

RefSeq ORF: 1539 bp

Locus ID: 4067

UniProt ID: [P07948](#)

Cytogenetics: 8q12.1

Domains: pkinase, SH2, TyrKc, SH3, S_TKc

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 (1) encodes the longer isoform (A).