

Product datasheet for **RC212851**

LYN (NM_002350) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYN (NM_002350) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LYN
Synonyms:	JTK8; p53Lyn; p56Lyn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC212851 representing NM_002350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGATGTATAAAATCAAAGGAAAGACAGCTTGAGTGACGATGGAGTAGATTGAAGACTCAACCAG
 TACGTAATACTGAAAGAACTATTTATGTGAGAGATCCAACGTCCAATAAACAGCAAAAGGCCAGTTCCAGA
 ATCTCAGCTTTTACCTGGACAGAGGTTTCAAACAAAGATCCAGAGGAACAAGGAGACATTGTGGTAGCC
 TTGTACCCCTATGATGGCATCCACCCGGACGACTTGTCTTTCAAGAAAGGAGAGAAGATGAAAGTCTGG
 AGGAGCATGGAGAATGGTGGAAAGCAAAGTCCCTTTTAAACAAAAAAGAAGGCTTCATCCCAGCAACTA
 TGTGGCCAAACTCAACACCTTAGAAACAGAAGAGTGGTTTTTCAAGGATATAACCAGGAAGGACGCAGAA
 AGGCAGCTTTTGGCACCAGGAAATAGCGCTGGAGCTTTCCTTATTAGAGAAAGTAAACATTAAGAGGAA
 GCTTCTCTGTCTGTCTGACAGACTTTGACCTGTGCATGGTGTATTAAAGCACTACAAAATTAAGAG
 TCTGGATAATGGGGGCTATTACATCTCTCCACGAATCACTTTTCCCTGTATCAGCGACATGATTAACAT
 TACCAAAAGCAGGAGATGGCTTGTGCAGAAAGATTGGAGAAGGCTTGTATTAGTCCCAAGCCACAGAAAGC
 CATGGGATAAAGATGCCTGGGAGATCCCCGGGAGTCCATCAAGTTGGTAAAAGGCTTGGCGCTGGGCA
 GTTTGGGGAAGTCTGGATGGGTTACTATAACAACAGTACCAAGGTGGCTGTGAAAACCTGAAGCCAGGA
 ACTATGTCTGTGCAAGCCTTCTGGAAGAAGCCAACTCATGAAGACCCTGCAGCATGACAAGCTCGTGA
 GGCTCTACGCTGTGGTACCAGGGAGGAGCCATTTACATCATCACCGAGTACATGGCCAAGGGCAGTTT
 GCTGGATTTCTGAAGAGCGATGAAGGTGGCAAAGTGTGCTTCCAAAGCTCATTGACTTTTCTGCTCAG
 ATTGACAGAGGGAATGGCATAACATCGAGCGGAAGAACTACATTACCCGGGACCTGCGAGCAGCTAATGTT
 TGGTCTCCGAGTCACTCATGTGCAAAATTCAGATTTTGGCCTTGTAGAGTAATTGAAGATAATGAGTA
 CACAGCAAGGGAAGGTGCTAAGTTCCCTATTAAGTGGACGGCTCCAGAAGCAATCAACTTTGGATGTTTC
 ACTATTAAGTCTGATGTGTGGTCTTTGGAATCCTCTATACGAAATTGTCACCTATGGGAAAATCCCT
 ACCCAGGGAGAATAATGCCGACGTGATGACCGCCTGTCCAGGGCTACAGGATGCCCCGTGTGGAGAA
 CTGCCAGATGAGCTCTATGACATTATGAAAATGTGCTGGAAAGAAAAGGCAGAGAGACCAACGTTT
 GACTACTTACAGAGCGTCTGGATGATTCTACACAGCCACGGAAGGGCAATACCAGCAGCAGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212851 representing NM_002350
 Red=Cloning site Green=Tags(s)

MGCIKSKGKDSLSDGVDLKTQPVRNTERTIYVRDPTSNKQRPVPESQLLPGQRFQTKDPEEQGDIVVA
 LYPYDGIHPDDL SFKKGEKMKVLEEHEWKKAKSLLTKKEGFIPSNYVAKLNTLETEEWFKDIRKDAE
 RQLLAPGNSAGAF LIRES ETLKGSFSLSVRDFDPVHGDV IKHYKIRSLDNGGYYISPRITFP CISMIKH
 YQKQADGLCRRLEKACISPKPQKPWDKDAWEIPRESIKLVKRLGAGQFGEVWMGYNNSTKVAVKTLKPG
 TMSVQAFLEEANL M KTLQHDKLVRLYAVVTREPIYIITEYMAKGSLLDFLKSDEGGKVLLPKLIDFSAQ
 IAEGMAYIERKNYIHRDLRAANVLVSESLMCKIADFLARVIEDNEYTAREGAKFPKWTAPEAINFGCF
 TIKSDVWSFGILLYEIVTYGKIPYGR TNADVMTAL SQGYRMPRVENCPEL YD IMKMCWKEAEERPTF
 DYLSVLD DDFY TATEGQYQQQP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2991_h06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_002350

ORF Size: 1536 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](#)

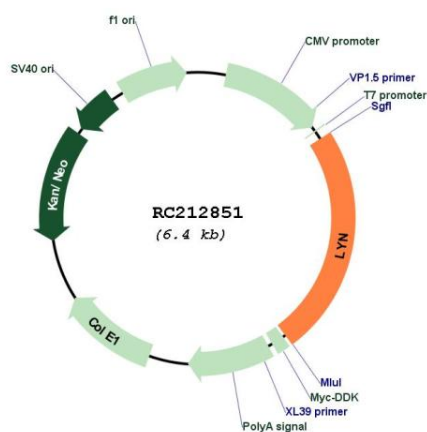
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_002350.4
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
MW:	58.4 kDa
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]

Product images:



Circular map for RC212851