

Product datasheet for **RC402618**

LYN (NM_002350) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	LYN (NM_002350) Human Mutant ORF Clone
Mutation Description:	Y306X
Affected Codon#:	306
Affected NT#:	918
Nucleotide Mutation:	LYN Mutant (Y306X), Myc-DDK-tagged ORF clone of Homo sapiens v-yes-1 Yamaguchi sarcoma viral related oncogene homolog (LYN), transcript variant 1 as transfection-ready DNA
Effect:	Potential protein deficiency
Symbol:	LYN
Synonyms:	JTK8; p53Lyn; p56Lyn
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_002350
ORF Size:	915 bp
Restriction Sites:	Sgfl-Mlul



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ORF Nucleotide Sequence:

>RC402618 representing NM_002350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGATGTATAAAATCAAAGGAAAGACAGCTTGAGTGACGATGGAGTAGATTGAAGACTCAACCAG
 TACGTAATACTGAAAGAACTATTTATGTGAGAGATCCAACGTCCAATAAACAGCAAAGGCCAGTTCCAGA
 ATCTCAGCTTTTACCTGGACAGAGGTTTCAAACATAAGATCCAGAGGAACAAGGAGACATTGTGGTAGCC
 TTGTACCCTATGATGGCATCCACCCGGACGACTTGTCTTTCAAGAAAGGAGAGAAGATGAAAGTCTGG
 AGGAGCATGGAGAATGGTGGAAAGCAAAGTCCCTTTTAACAAAAAAGAGGCTTCATCCCAGCAACTA
 TGTGGCCAACTCAACACCTTAGAAACAGAAGAGTGGTTTTTCAAGGATATAACCAGGAAGGACGCAGAA
 AGGCAGCTTTTGGCACCAGGAAATAGCGCTGGAGCTTTCCTTATTAGAGAAAGTAAACATTAAGGAA
 GCTTCTCTGTCTGTCAGAGACTTTGACCCTGTGCATGGTATGTTATTAAGCACTACAAAATTAGAAG
 TCTGGATAATGGGGCTATTACATCTCTCCACGAATCACTTTTCCCTGTATCAGCGACATGATTAACAT
 TACAAAAGCAGGCAGATGGCTTGTGCAGAAGATTGGAGAAGGCTTGTATTAGTCCCAAGCCACAGAAGC
 CATGGGATAAAGATGCCTGGGAGATCCCCGGGAGTCCATCAAGTTGGTAAAAGGCTTGGCGCTGGGCA
 GTTTGGGGAAGTCTGGATGGGTTACTATAACAACAGTACCAAGGTGGCTGTGAAAACCTGAAGCCAGGA
 ACTATGTCTGTGCAAGCCTTCTGGAAGAAGCCAACCTCATGAAGACCCTGCAGCATGACAAGCTCGTGA
 GGCTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC402618 representing NM_002350
 Red=Cloning site Green=Tags(s)

MGCIKSKGKDSLSDGVDLKTQPVRNTERTIYVRDPTSNKQRPVPESQLLPGQRFQTKDPEEQGDIVVA
 LYPYDGIHPDDL SFKKGEKMKVLEEHGEWWKAKSLLTKKEGFIPSNYVAKLNTLETEEWFVKDITRKDAE
 RQLLAPGNSAGAF LIRESLTKGSFSLSVRDFDPVHGDIKHYKIRSLDNGGYI SPRITFCISDMIKH
 YQKQADGLCRRLEKACI SPKPQKPWDKDAWEIPRESIKLVKRLGAGQFGEVWMGYNNSTKVAVKTLKPG
 TMSVQAFLEEANLMKTLQHKLVRL

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



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).

RefSeq:

[NP_002341](#)

RefSeq Size:

915 bp

RefSeq ORF:

1539 bp

Locus ID:

4067

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:	33.6 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]