

Product datasheet for **RG212851**

LYN (NM_002350) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYN (NM_002350) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LYN
Synonyms:	JTK8; p53Lyn; p56Lyn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212851 representing NM_002350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGATGTATAAAATCAAAGGAAAGACAGCTTGAGTGACGATGGAGTAGATTGAAGACTCAACCAG
 TACGTAATACTGAAAGAACTATTTATGTGAGAGATCCAACGTCCAATAAACAGCAAAGGCCAGTTCCAGA
 ATCTCAGCTTTTACCTGGACAGAGGTTTCAAACAAAGATCCAGAGGAACAAGGAGACATTGTGGTAGCC
 TTGTACCCTATGATGGCATCCACCCGGACGACTTGTCTTTCAAGAAAGGAGAGAAGATGAAAGTCTGG
 AGGAGCATGGAGAATGGTGGAAAGCAAAGTCCCTTTTAAACAAAAAAGAAGGCTTCATCCCAGCAACTA
 TGTGGCCAAACTCAACACCTTAGAACAGAAAGAGTGGTTTTTCAAGGATATAACCAGGAAGGACGCAGAA
 AGGCAGCTTTTGGCACCAGGAAATAGCGCTGGAGCTTTCCTTATTAGAGAAAGTAAACATTAAGGAA
 GCTTCTCTGTCTGTCTGACAGACTTTGACCTGTGCATGGTATGTTATTAAGCACTACAAAATTAAG
 TCTGGATAATGGGGCTATTACATCTCTCCACGAATCACTTTTCCCTGTATCAGCGACATGATTAACAT
 TACCAAAAGCAGGAGATGGCTTGTGCAGAAGATTGGAGAAGGCTTGTATTAGTCCCAAGCCACAGAAAGC
 CATGGGATAAAGATGCCTGGGAGATCCCCGGGAGTCCATCAAGTTGGTAAAAGGCTTGGCGCTGGGCA
 GTTTGGGGAAGTCTGGATGGGTTACTATAACAACAGTACCAAGGTGGCTGTGAAAACCCTGAAGCCAGGA
 ACTATGTCTGTGCAAGCCTTCTGGAAGAAGCCAACTCATGAAGACCCTGCAGCATGACAAGCTCGTGA
 GGCTCTACGCTGTGGTACCAGGGAGGAGCCATTTACATCATCACCGAGTACATGGCCAAGGGCAGTTT
 GCTGGATTTCTGAAGAGCGATGAAGGTGGCAAAGTGTGCTTCAAAGCTCATTGACTTTTCTGCTCAG
 ATTGACAGAGGGAATGGCATACTCGAGCGGAAGAACTACATTACCGGGACCTGCGAGCAGCTAATGTTT
 TGCTCCGAGTCACTCATGTGCAAAATTCAGATTTTGGCCTTGCTAGAGTAATTGAAGATAATGAGTA
 CACAGCAAGGGAAGGTGCTAAGTCCCTATTAAGTGGACGGCTCCAGAAGCAATCAACTTTGGATGTTTC
 ACTATTAAGTCTGATGTGTGGTCTTTGGAATCCTCTATACGAAATTGTCACCTATGGGAAAATCCCT
 ACCCAGGGAGAACTAATGCCGACGTGATGACCGCCTGTCCAGGGCTACAGGATGCCCGTGTGGAGAA
 CTGCCAGATGAGCTCTATGACATTATGAAAATGTGCTGGAAAGAAAAGGCAGAGAGACCAACGTTT
 GACTACTTACAGAGCGTCTGGATGATTCTACACAGCCACGGAAGGGCAATACCAGCAGCAGCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212851 representing NM_002350
 Red=Cloning site Green=Tags(s)

MGCIKSKGKDSLSDDGVDLKTQPVNRTERTIYVRDPTSNKQQRVPESQLLPGQRFQTKDPEEQGDIVVA
 LYPYDGIHPDDL SFKKGEKMKVLEEHGEWWKAKSLLTKKEGFIPSNYVAKLNTLETEEWFKIDITRKDAE
 RQLLAPGNSAGAF LIRESLTKGSFSLSVRDFDPVHGDVIKHYKIRSLDNGGYIISPRITFPCISDMIKH
 YQKQADGLCRRLEKACISPKPQKPWDKDAWEIPRESIKLVKRLGAGQFGEVWMGYNNSTKVAVKTLKPG
 TMSVQAFLEEANLTKLQHDKLVRLYAVVTREEPIYIITEYMAKGSLLDFLKSDEGGKVLLPKLIDFSAQ
 IAEGMAYIERKNYIHRDLRAANVLVSESLMCKIADFLARVIEDNEYTAREGAKFPIKWTAPEAINFDCF
 TIKSDVWSFGILLYEIVTYGKIPYPGRNADVMTALSQGYRMPRVENCPELDYIMKMCWKEAEERPTF
 DYLSVLDLDFYTATEGQYQQQP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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).

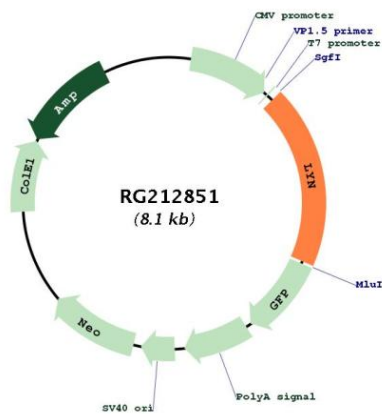
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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

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 RG212851