

Product datasheet for **RG224691**

FYN (NM_002037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FYN (NM_002037) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FYN
Synonyms:	p59-FYN; SLK; SYN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224691 representing NM_002037
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAACAAACTGACGGAGGAGAGGGACGGCAGCCTGAACC
 AGAGCTCTGGGTACCGCTATGGCACAGACCCACCCTCAGCACTACCCAGCTTCGGTGTGACCTCCAT
 CCCAACTACAACAACCTCCACGACGCCGGGGCCAAGGACTCACCGTCTTTGGAGGTGTAACCTTTCG
 TCTCATACGGGGACCTTGCGTACGAGAGGAGGAACAGGAGTGACACTCTTTGTGGCCCTTATGACTATG
 AAGCACGGACAGAAGATGACCTGAGTTTTCAAAAGGAGAAAAATTTCAAATATTGAACAGCTCGGAAGG
 AGATTGGTGGGAAGCCCGCTCCTTGACAACTGGAGAGACAGGTTACATCCAGCAATTATGTGGCTCCA
 GTTGACTCTATCCAGGCAGAAGAGTGGTACTTTGAAAACCTTGCCGAAAAGATGCTGAGCGACAGCTAT
 TGTCTTTGAAAACCAAGAGGTACCTTTCTTATCCGCGAGAGTGAAACCACAAAGGTGCCTATCACT
 TTCTATCCGTGATTGGGATGATATGAAAGGAGACCATGTCAAACATTATAAAATTCGAAACTTGACAAT
 GGTGGATACTACATTACCACCGGGCCAGTTTGAACACTTCAGCAGCTTGACAACTTACTCAGAGA
 GAGCTGCAGGTCTCTGCTGCCCGCTAGTAGTCCCTGTCAAAAGGGATGCCAAGGCTTACCGATCTGTC
 TGTCAAAACCAAGATGTCTGGGAAATCCCTCGAGAATCCCTGCAGTTGATCAAGAGACTGGGAAATGGG
 CAGTTTGGGGAAGTATGGATGGGTACCTGGAATGGAAACACAAAAGTAGCCATAAAGACTCTAAACCAG
 GCACAATGTCCCCGAATCATTCTTGAGGAAGCGCAGATCATGAAGAAGCTGAAGCAGCACAAGCTGGT
 CCAGCTCTATGCAGTGGTGTCTGAGGAGCCCATCTACATCGTACCGAGTATATGAACAAAGGAAGTTA
 CTGGATTTCTTAAAGATGGAGAAGGAAGAGCTGAAATTACCAATCTTGTGGACATGGCAGCACAGG
 TGGCTGCAGGAATGGCTTACATCGAGCGCATGAATTATATCCATAGAGATCTGCGATCAGCAAACTTCT
 AGTGGGGAATGGACTCATATGCAAGATTGCTGACTTCGGATTGGCCCGATTGATAGAAGACAATGAGTAC
 ACAGCAAGACAAGGTGCAAAGTTCCCATCAAGTGGACGGCCCCGAGGCAGCCCTGTACGGGAGGTTCA
 CAATCAAGTCTGACGTGTGGTCTTTTGGAACTTACTCACAGAGCTGGTCACCAAAGGAAGAGTGCCATA
 CCCAGGCATGAACAACCGGGAGGTGCTGGAGCAGGTGGAGCGAGGCTACAGGATGCCCTGCCCGCAGGAC
 TGCCCCATCTCTGATGAGCTCATGATCCACTGCTGGAAAAAGGACCCTGAAGAACGCCCCACTTTTG
 AGTACTGCAGAGCTTCTGGAAGACTACTTTACCGCGACAGAGCCCGATACCAACCTGGTGAAAACT
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224691 representing NM_002037
 Red=Cloning site Green=Tags(s)

MGCVQCKDKEATKLTTEERDGLNQSSGYRYGTDPTPQHYPYSGVTSIPNYNNFHAAGGQGLTVFGGVNSS
 SHTGTLRTRGGTGVTLFVALYDYEARTEDDL SFHKGEKFQILNSSEGDWWEARSLTTGETGYIPSNYVAP
 VDSIQAEWYFGKLRKDAERQLLSFGNPRGTFLIRESETTKGAYSL SIRDWDDMKGDHVKHYKIRKLDN
 GGYIITTRAQFETLQQLVQHYSERAAGLCCRLVVPCHKMPRLTDL SVKTKDVWEIPRESLQLIKRLGNG
 QFGEVWMGTWNGNTKVAIKTLKPGTMSPEFL EEAQIMKKLKHDKLVQLYAVVSEEPYIYIVTEYMNKGS
 LDFLKDGEGRALKLPNLVDMAAQVAAGMAYIERMNYIHRDLRSANILVGNGLICKIADFLARLIEDNEY
 TARQGAQFPIKWTAPEAALYGRFTIKSDVWSFGILL TELVTKGRVYPGMNREVLEQVERGYRMPCPQD
 CPISLHELMIHCWKKDPEERPTFEYLQSFLEDYFTATEPQYQGENL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002037

ORF Size: 1611 bp

OTI Disclaimer: 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_002037.5](#)

RefSeq Size: 2650 bp

RefSeq ORF: 1614 bp

Locus ID: 2534

UniProt ID: [P06241](#)

Cytogenetics: 6q21

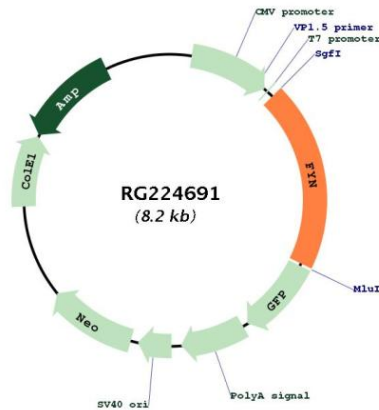
Domains: pkinase, SH2, TyrKc, SH3, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Adherens junction, Axon guidance, Fc epsilon RI signaling pathway, Focal adhesion, Natural killer cell mediated cytotoxicity, Pathogenic Escherichia coli infection, Prion diseases, T cell receptor signaling pathway, Viral myocarditis

Gene Summary: This gene is a member of the protein-tyrosine kinase oncogene family. It encodes a membrane-associated tyrosine kinase that has been implicated in the control of cell growth. The protein associates with the p85 subunit of phosphatidylinositol 3-kinase and interacts with the fyn-binding protein. Alternatively spliced transcript variants encoding distinct isoforms exist. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224691