

Product datasheet for **RG200413**

SYK (NM_003177) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYK (NM_003177) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYK
Synonyms:	IMD82; p72-Syk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200413 representing NM_003177
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAGCAGCGGCATGGCTGACAGCGCCAACCACTGCCCTTCTTTTTCGGCAACATCACCCGGGAGG
 AGGCAGAAGATTACCTGGTCCAGGGGGCATGAGTGATGGGCTTTATTTGCTGCGCCAGAGCCGCAACTA
 CCTGGGTGGCTTCGCCCTGTCCGTGGCCACGGGAGGAAGGCACACCACTACACCATCGAGCGGGAGCTG
 AATGGCACCTACGCCATCGCCGGTGGCAGGACCCATGCCAGCCCCGCGACCTCTGCCACTACCACTCCC
 AGGAGTCTGATGGCCTGGTCTGCCTCCTCAAGAAGCCCTCAACCGGCCCAAGGGTGCAGCCCAAGAC
 TGGGCCCTTTGAGGATTTGAAGGAAAACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGT
 CAGGCTCTGGAGCAGGCCATCATCAGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACCACAGCCCATG
 AAAAAATGCCTTGGTTCCATGAAAAATCTCTCGGAAGAATCTGAGCAAATGCTCTGATAGGATCAA
 GACAAATGAAAGTTCTGATCCGAGCCAGAGACAACAACGGCTCTACGCCCTGTGCCTGCTGCACGAA
 GGGAAAGTGTGCACTATCGCATCGACAAGACAGAGGAAGCTCTCCATCCCCGAGGGAAAGAAGT
 TCGACACGCTCTGGCAGCTAGTCGAGCATTATTCTTATAAAGCAGATGGTTTGTTAAGAGTCTTACTGT
 CCCATGTCAAAAAATCGGCACACAGGAAATGTTAATTTTGGAGGCCGTCCACAACCTCCAGGTTCCCAT
 CCTGCGACTTGGTCAGCGGTGGAATAATCTCAAGAATCAAATCATACTCCTTCCCAAAGCTGGCCACA
 GAAAGTCTCCCTGCCAAGGGAACCGGCAAGAGAGTACTGTGTCATTCAATCCGTATGAGCCAGA
 TGCACCTGGGCTGCAGACAAAGGCCCCAGAGAGAAGCCCTACCATGGACACAGAGGTGACGAGAGC
 CCCTACGCGGACCCTGAGGAGATCAGGCCAAGGAGGTTTACCTGGACCGAAAGCTGTGACGCTGGAAG
 ACAAGAAGTGGCTCTGGTAATTTTGGAACTGTGAAAAAGGGCTACTACCAAATGAAAAAGTTGTGAA
 AACCGTGGCTGTGAAAAACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATGAGTTATTAGCAGAA
 GCAAATGTCATGCAGCAGCTGGACAACCGTACATCGTGCATGATCGGGATATGCGAGCCGAGTCTCT
 GGATGCTAGTTATGGAGATGGCAGA
 AACTTGGTCCCTCAATAAGTATTTGCAGCAGAACAGACATGTCAA
 GGATAAGAACATCATAGA
 AACTGGTTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGCAATTTT
 GTGCACAGAGATCTGGCTGCAAGAAATGTGTTGCTAGTTACCAACATTATGCCAAGATCAGTATTTCG
 GACTCTCCAAAGCACTGCGTGTGATGAAA
 AACTACTACAAGGCCAGACCCATGGAAAGTGGCCTGTCAA
 GTGGTACGCTCCGAATGCATCAACTACTACAAGTTTCCAGCAAAGCGATGTCTGGAGCTTTGGAGTG
 TTGATGTGGGAAGCATTCTCTATGGGCAGAAGCCATATCGAGGGATGAAAGGAAGTGAAGTACC
 CGCTATGTTAGAGAAAGGAGAGCGGATGGGGTGCCTGCAGGGTGTCAAAGAGAGATGTACGATCTCATGAATCT
 GTGCTGGACATACGATGTGAAAAACAGGCCCGATTTCGACGACAGTGAAGTGCAGGCTGCGCAATTACTAC
 TATGACGTGGTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200413 representing NM_003177
 Red=Cloning site Green=Tags(s)

MASSGMADSANHLPPFFGNITREEAEDYLVQGGMSDGLYLLRQSRNYLGGFALSVAHGRKAHHYTIEREL
 NGTYAIAGGRTHASPADLCHYHSQESDGLVCLLKPFNRPQGVQPKTGFEDLKENLIREYVKQTWNLQG
 QALEQAIISQKPQLEKLIATTAHEKMPWFHGKISREESEQIVLIGSKTNGKFLIRARDNNGSYALCLLHE
 GKVLHYRIDKDKTGKLSIPEGKFDLWQLVEHYSYKADGLLRVLTVPQKIGTQGNVNFGGRPQLPGSH
 PATWSAGGIIISRIKSYSPKPGHRKSSPAQGNRQESTVSFNPEPELAPWAADKGPQREALPMDTEVYES
 PYADPEEIRPKEYLDRKLLTLEDKELGSGNFGTVKKGYYQMKVVKTVAVKILKNEANDPALKDELLAE
 ANVMQQLDNPIYIRMIIGICEAESWMLVMEMAELGPLNKYLQQRHVKDKNIIELVHQVSMGMKYLEESNF
 VHRDLAARNVLLVTQHYAKISDFGLSKALRADENYYKAQTHGKWPVKWYAPECINYYKFSKSDVWSFGV
 LMWEAFSYGQKPYRGMKGSEVTAMLEKGERMGCAPAGCPREMYDLMNLCWTYDVENRPGFAAVELRLRNY
 YDVVN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_003177

ORF Size: 1905 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.

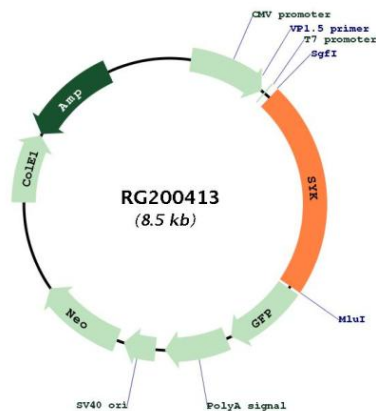
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<ol style="list-style-type: none">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_003177.3 , NP_003168.2
RefSeq Size:	2672 bp
RefSeq ORF:	1908 bp
Locus ID:	6850
UniProt ID:	P43405
Cytogenetics:	9q22.2
Domains:	pkinase, SH2, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity
Gene Summary:	This gene encodes a member of the family of non-receptor type Tyr protein kinases. This protein is widely expressed in hematopoietic cells and is involved in coupling activated immunoreceptors to downstream signaling events that mediate diverse cellular responses, including proliferation, differentiation, and phagocytosis. It is thought to be a modulator of epithelial cell growth and a potential tumour suppressor in human breast carcinomas. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RG200413