

Product datasheet for **RC230346**

SYK (NM_001174168) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYK (NM_001174168) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYK
Synonyms:	IMD82; p72-Syk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230346 representing NM_001174168
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAGCAGCGGCATGGCTGACAGCGCCAACCACTGCCCTTCTTTTTCGGCAACATCACCCGGGAGG
 AGGCAGAAGATTACCTGGTCCAGGGGGCATGAGTGATGGGCTTTATTTGCTGCGCCAGAGCCGCAACTA
 CCTGGGTGGCTTCGCCCTGTCCGTGGCCACGGGAGGAAGGCACACCACTACACCATCGAGCGGGAGCTG
 AATGGCACCTACGCCATCGCCGGTGGCAGGACCCATGCCAGCCCCGCGACCTCTGCCACTACCACTCCC
 AGGAGTCTGATGGCTGGTCTGCCTCCTCAAGAAGCCCTCAACCGGCCCAAGGGTGCAGCCCAAGAC
 TGGGCCCTTTGAGGATTTGAAGGAAAACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGT
 CAGGCTCTGGAGCAGGCCATCATCAGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACCACAGCCCATG
 AAAAAATGCCTTGGTTCCATGAAAAATCTCTCGGAAGAATCTGAGCAAATTCCTGATAGGATCAA
 GACAAATGAAAGTTCTGATCCGAGCCAGAGACAACAACGGCTCTACGCCCTGTGCCTGCTGCACGAA
 GGGAAAGTGTGCACTATCGCATCGACAAGACAGAGGAAGCTCTCCATCCCCGAGGAAAGAAGT
 TCGACACGCTCTGGCAGCTAGTCGAGCATTATTCTTATAAAGCAGATGGTTTGTAAAGATTCTTACTGT
 CCCATGTCAAAAAATCGGCACACAGGAAATGTTAATTTTGGAGGCCGTCCACAACCTCCAGTTCCCAT
 CCTGCGTCTCCCTGCCAAGGGAACCGGCAAGAGAGTACTGTGTCATTCAATCCGTATGAGCCAGAAC
 TTGCACCTGGGCTGCAGACAAAGGCCCCAGAGAGAAGCCCTACCCATGGACACAGAGGTGTACGAGAG
 CCCCTACGCGGACCCCGAGGAGATCAGGCCAAGGAGTTTACCTGGACCGAAAGCTGCTGACGCTGGAA
 GACAAAGAAGTGGGCTCTGGTAATTTTGAACCTGTGAAAAAGGGTACTACCAAAATGAAAAAGTTGTGA
 AAACCGTGGCTGTGAAAAACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATGAGTTATTAGCAGA
 AGCAAATGTATGCAGCAGCTGGACAACCCGTACATCGTGGGATGATCGGGATATGCGAGGCCGAGTCC
 TGGATGCTGGTTATGGAGATGGCAGAATTGGTCCCCTCAATAAGTATTTGCAGCAGAACAGACATGTCA
 AGGATAAGAACATCATAGAACTGGTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCAATTT
 TGTGCACAGAGATCTGGCTGCAAGAAATGTTGCTAGTTACCCAACATTACGCCAAGATCAGTGATTTT
 GGACTTTCCAAGCACTGCGTGTGATGAAAACTACTACAAGGCCAGACCCATGGAAAGTGGCCTGTCA
 AGTGGTACGCTCCGAATGCATCACTACTACAAGTTCTCCAGCAAAGCGATGCTGGAGCTTTGGAGT
 GTTGATGTGGGAAGCATTCTCTATGGCAGAAGCCATATCGAGGGATGAAAGGAAGTGAAGTACCCTG
 ATGTTAGAAAAGGAGAGCGGATGGGGTCCCTGCAGGTGTCCAAGAGAGATGTACGATCTCATGAATC
 TGTGCTGGACATACGATGTGAAAAACAGGCCCGATTTCGACAGCTGGAAGTGGCCTGCCCAATTACTA
 CTATGACGTGGTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230346 representing NM_001174168
 Red=Cloning site Green=Tags(s)

MASSGMADSANHLPPFFGNITREEAEDYLVQGGMSDGLYLLRQSRNYLGGFALVAHGRKAHHYTIEREL
 NGTYAIAGGRTHASPADLCHYHSQESDGLVCLLKPFNRPQGVQPKTGFEDLKENLIREYVKQTWNLQG
 QALEQAIISQKPQLEKLIATTAHEKMPWFHGKISREESEQIVLIGSKTNGKFLIRARDNNGSYALCLLHE
 GKVLHYRIDKDKTGKLSIPEGKFDLWQLVEHYSYKADGLLRVLTVPQKIGTQGNVNFGGRPQLPGSH
 PASSPAQGNRQESTVSFNPYEPELAPWAADKGPQREALPMDTEVYESPYADPEEIRPKEVYLDKLLTLE
 DKELGSGNFGTVKKGYYQMKVVKTVAVKILKNEANDPALKDELLAEANVMQQLDNPYIVRMIGICEAES
 WMLVMEMAELGPLNKYLQQRHVKDKNIIELVHQVSMGMKYLEESNPFVHRDLAARNVLLVTQHYAKISDF
 GLSKALRADENYYKAQTHGKWPVKWYAPECINYYKFSKSDVWSFGVLMWEAFSYGQKPYRGMKGSEVTA
 MLEKGERMGCPAGCPREMYDLMNLCWTYDVENRPGFAAVELRLRNYDYDVVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8069_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001174168

ORF Size: 1836 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.

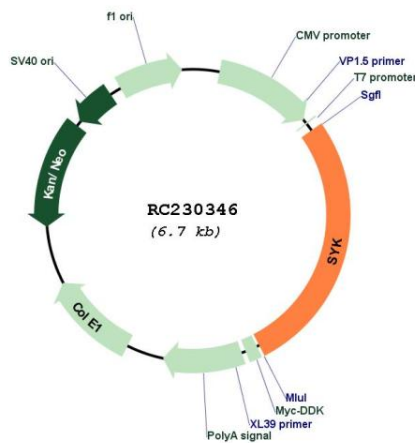
RefSeq: [NM_001174168.3](#)

RefSeq Size: 4925 bp

RefSeq ORF: 1839 bp

Locus ID: 6850
UniProt ID: [P43405](#)
Cytogenetics: 9q22.2
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
MW: 69.5 kDa
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 RC230346