

Product datasheet for **RC210846**

STYK1 (NM_018423) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STYK1 (NM_018423) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STYK1
Synonyms:	NOK; SuRTK106
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210846 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCATGACACGGATGCTCCTGGAATGCAGTCTCAGTGACAAGTTGTGTGTCATCCAGGAGAAGCAGT
 ATGAAGTGATTATCGTCCCAACTTTGTTGGTTACTATCTTCTCATCCTTCTGGGGTCATCCTGTGGCT
 TTTTATCAGAGAACAAAGAACTCAACAGCAGCGTTCTGGACCTCAAGGCATTGCCCTGTCTCCACCT
 AGGGACCTAAGCTGGGAAGCAGGACATGGAGGAAATGTGGCTTTGCCACTAAGGAGACATCCGTGGAAA
 ACTTTCTGGGAGCTACCACACCTGCCCTGGCTAAGCTGCAGGTGCCGCGGGAGCAACTCTCTGAAGTTCT
 GGAGCAGATTTGCAGTGGTAGCTGTGGGCCATCTTTCGAGCCAATATGAACACTGGGGACCCTTCTAAG
 CCCAAGAGTGTTATTCTCAAGGCTTTAAAAGAACCAGCTGGGCTCCATGAGGTACAAGATTTCTTAGGGC
 GAATCCAATTCATCAATACCTGGGAAACACAAAAACCTGGTGCAGCTGGAAGGCTGCTGCACTGAAAA
 GCTGCCACTCTATATGGTGTGGAGGATGTGGCCAGGGGACCTGCTCGGCTTCTCTGGACCTGTCGG
 CGGGATGTGATGACTATGGATGGTCTTCTCTATGATCTCACAGAAAAACAAGTATATCACATCGGAAAGC
 AGGTCCTTTTGGCGCTGGAATTCCTGCAGGAGAAGCATTGTTCATGGGGATGTGGCAGCCAGGAATAT
 TCTGATGCAAAGTGATCTCACTGCTAAGCTCTGTGGATTAGGCCTGGCTTATGAAGTTTACACCCGAGGG
 GCCATCTCCTCTACTCAAACCATACCTCTCAAGTGGCTTGCCCGAGAACGGCTTCTCCTGAGACCTGCTA
 GCATCAGAGCAGATGTCTGGTCTTTTGGGATCCTGCTCTATGAGATGGTGACTCTAGGAGACCACCGTA
 TCCTGAAGTCCCTCCTACCAGCATCCTAGAGCATCTCAAAGAAGGAAAAATCATGAAGAGACCCAGTAGC
 TGCACACATACCATGTACAGTATCATGAAGTCTGCTGGCGCTGGCGTGAGGCTGACCGCCCTCACCTA
 GAGAGCTGCGCTTGCGCCTAGAAGCTGCCATTAAACTGCAGATGACGAGGCTGTGTTACAAGTACCAGA
 GTTGGTGGTACCTGAAGTGTATGCAGCTGTGGCCGGCATCAGAGTGGAGAGCCTTCTACAACATATAGC
 ATGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210846 protein sequence
 Red=Cloning site Green=Tags(s)

MGMTRMLLECSLSDKLCVIQEQYEVIIIVPTLLVTIFLILLGVILWLFIREQRTQQQRSGPQGIAPVPPP
 RDL SWEAGHGGNVALPLKETSVENFLGATTPALAKLQVPREQLSEVLEQICSGSCGPIFRANMNTGDPSK
 PKSVILKALKEPAGLHEVQDFLGRIQFHQYLGHKKNLVQLEGCCTEKLPLYMVLEDVAQGDLLGFLWTCR
 RDVMTMDGLLYDLTEKQVYHIGKQVLLALEFLQEKHLFHGDVAARNILMQSDLTAKLCGLGLAYEVYTRG
 AISSTQTIPLKWLAPERLLL RPASIRADVWSFGILLYEMVTLGAPPYPEVPPPTSILEHLQRRKIMKRPS
 CTHMYSIMKSCWRWREADRPSPRELRLLEAAIKTADDEAVLQVPELVVPELYAAVAGIRVESLFFYNYS
 ML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6008_g09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_018423

ORF Size: 1266 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_018423.1](#), [NP_060893.1](#)

RefSeq Size: 3022 bp

RefSeq ORF: 1269 bp

Locus ID: 55359

UniProt ID: [Q6J9G0](#)

Cytogenetics: 12p13.2

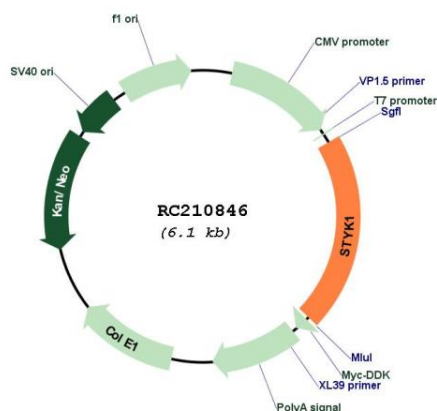
Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

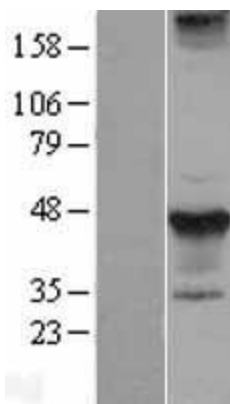
MW: 47.5 kDa

Gene Summary: Receptor protein tyrosine kinases, like STYK1, play important roles in diverse cellular and developmental processes, such as cell proliferation, differentiation, and survival (Liu et al., 2004 [PubMed 15150103]).[supplied by OMIM, Mar 2008]

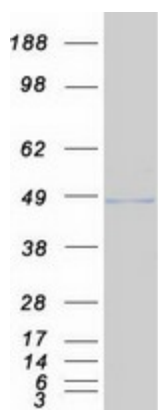
Product images:



Circular map for RC210846



Western blot validation of overexpression lysate (Cat# [LY402684]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210846 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STYK1 protein (Cat# [TP310846]). The protein was produced from HEK293T cells transfected with STYK1 cDNA clone (Cat# RC210846) using MegaTran 2.0 (Cat# [TT210002]).