

Product datasheet for RC200012

STYXL1 (NM_016086) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STYXL1 (NM_016086) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STYXL1
Synonyms:	DUSP24; MK-STYX; MKSTYX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200012 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGTTGCTTTTATGTGAACCGACAGAGCTTTACAACATCCTGAATCAGGCCACAAACTCTCCA
GATTAACAGACCCCAACTATCTGTGTTATTGGATGTCGGTTCCAATGGGAGTATGACGAAAGCCATGT
GATCACTGCCCTTCGAGTGAAGAAGAAAATAATGAATATCTTCTCCGGAGTCTGTGGACCTGGAGTGT
GTGAAGTACTGCGTGGTGTATGATAACAACAGCAGCACCCCTGGAGATACTCTAAAAGATGATGATGATG
ATTCAGACTCTGATGGTGTATGGCAAAGATCTTGTGCCTCAAGCAGCCATTGAGTATGGCAGGATCCTGAC
CCGCTCACCCACCACCCGCTACATCCTGAAAGGGGGCTATGAGCGCTTCTCAGGCAGTACCACTTT
CTCCGGACCCAGAAGATCATCTGGATGCCTCAGAACTGGATGCATTTACGCCATACCCCAATTGAAATCG
TGCCAGGGAAGGTCTTCGTTGGCAATTTTCAGTCAAGCCTGTGACCCCAAGATTGAGAAGGACTTGAAAT
CAAAGCCCATGTCAATGTCTCCATGGATACAGGGCCCTTTTTGACAGGCGATGCTGACAAGCTTCTGCAC
ATCCGGATAGAAGATTCCTCGGAAGCCAGATTCTTCCCTTTACGCCACATGTGTCACTTCATTGAAA
TTCACCATCACCTTGGCTCTGTCTTCTGATCTTTCCACCCAGGGTATCAGCCGAGTTGTGCCGCCAT
CATAGCCTACCTCATGCATAGTAACGAGCAGACCTTGCAGAGGTCCTGGGCTATGTCAAGAAGTGCAA
AACACATGTGTCAAATCGGGGATTGGTGGCCAGCTGCTGGAATGGGAGAAGACTATCCTTGGAGATT
CCATCACAAACATCATGGATCCGCTCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC200012 protein sequence
Red=Cloning site Green=Tags(s)

MPGLLLCEPTEL YNILNQATKLSRLTDPNYLCLLDVRSKWEYDESHVITALRVKKNNEYLLPESVDLEC
 VKYCVVYDNNSSSTLEILLKDDDDSDSDGDKDLVPQAAIEYGRILTRLTHHPVYILKGGYERFSGTYHF
 LRTQKIIWMPQELDAFQYPYIEIVPGKVFVGNFSQACDPKIQKDLKIKAHVNVSMDTGPFFAGDADKLLH
 IRIEDSPEAQILPFLRHMCHFIEIHHHLGSVILIFSTQGISRSCAAIIAYLMHSNEQTLQRSWAYVKKCK
 NNMCPNRGLVSQLLEWEKTI LGDSITNIMDPLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6242_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016086

ORF Size: 939 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_016086.1](#)

RefSeq Size: 1429 bp

RefSeq ORF: 942 bp

Locus ID: 51657

UniProt ID: [Q9Y6J8](#)

Cytogenetics: 7q11.23

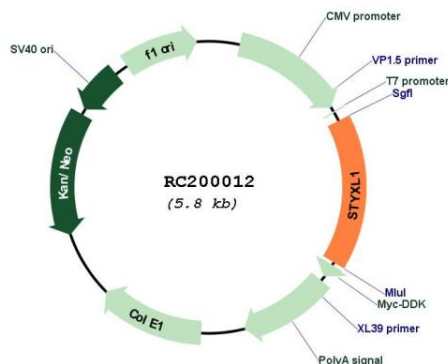
Domains: DSPc, RHOD

Protein Families: Druggable Genome, Phosphatase

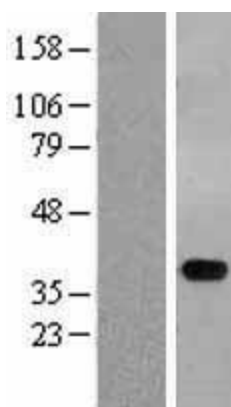
MW: 35.8 kDa

Gene Summary: Catalytically inactive phosphatase (PubMed:20180778, PubMed:23163895). By binding to G3BP1, inhibits the formation of G3BP1-induced stress granules (PubMed:20180778, PubMed:23163895). Does not act by protecting the dephosphorylation of G3BP1 at 'Ser-149' (PubMed:23163895). Inhibits PTPMT1 phosphatase activity (PubMed:24709986). By inhibiting PTPMT1, positively regulates intrinsic apoptosis (PubMed:21262771). May play a role in the formation of neurites during neuronal development (PubMed:29250526).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC200012



Western blot validation of overexpression lysate (Cat# [LY414192]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200012 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).