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Product datasheet for SC114445

STYXL1 (NM_016086) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STYXL1 (NM_016086) Human Untagged Clone
Tag:	Tag Free
Symbol:	STYXL1
Synonyms:	DUSP24; MK-STYX; MKSTYX
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_016086 edited
GGGGACCTGCGGTCGGAGTGGGAGGGCCAGTCTGCACCCAAGAGGTGGAAGAGGACGGGC
TTTAGGCTGGAAGCGCCTTAGAGGAGCCATTTTTCCAGGATGCCTGGTTTGCTTTTATGT
GAACCGACAGAGCTTTACAACATCCTGAATCAGGCCACAAAACTCTCCAGATTAACAGAC
CCCAACTATCTCTGTTTATTGGATGTCCGTTCCAAATGGGAGTATGACGAAAGCCATGTG
ATCACTGCCCTTCGAGTGAAGAAGAAAAATAATGAATATCTTCTCCCGGAGTCTGTGGAC
CTGGAGTGTGTGAAGTACTGCGTGGTGTATGATAACAACAGCAGCACCCTGGAGATACTC
TTAAAAGATGATGATGATGATTCAGACTCTGATGGTGATGGCAAAGATCTTGTGCCTCAA
GCAGCCATTGAGTATGGCAGGATCCTGACCCGCCTCACCCACCACCCCGTCTACATCCTG
AAAGGGGGCTATGAGCGCTTCTCAGGCACGTACCACTTTCTCCGGACCCAGAAGATCATC
TGGATGCCTCAGGAACTGGATGCATTTCAGCCATACCCCATTGAAATCGTGCCAGGGAAG
GTCTTCGTTGGCAATTTCAGTCAAGCCTGTGACCCCAAGATTCAGAAGGACTTGAAAATC
AAAGCCCATGTCAATGTCTCCATGGATACAGGGCCCTTTTTTGCAGGCGATGCTGACAAG
CTTCTGCACATCCGGATAGAAGATTCCCCGGAAGCCCAGATTCTTCCCTTCTTACGCCAC
ATGTGTCACTTCATTGAAATTCACCATCACCTTGGCTCTGTCATTCTGATCTTTTCCACC
CAGGGTATCAGCCGCAGTTGTGCCGCCATCATAGCCTACCTCATGCATAGTAACGAGCAG
ACCTTGCAGAGGTCCTGGGCCTATGTCAAGAAGTGCAAAAACAACATGTGTCCAAATCGG
GGATTGGTGAGCCAGCTGCTGGAATGGGAGAAGACTATCCTTGGAGATTCCATCACAAAC
ATCATGGATCCGCTCTACTGATCTTCTCCGAGGCCCACCGAAGGGTACTGAAGAGCCTCA
CCTGGGGGCATTTTGTGGGTGGAGGGCCAGAGTGTGTATACCCAGGCTTGTCTGGAAGGA
GGGGGACCTGCGGTCGGAGTGGGAGGGCCAGTCTGCACCCAAGAGGTGGAAGAGGACGGG
CTTTAGGCTGGAAGCGCCTTAGAGGAGCCATTTTTCCAGGATGCCTGGTTTGCTTTTATG
TGAACCGACAGAGCTTTACAACATCCTGAATCAGGCCACAAAACTCTCCAGATTAACAGA
CCCCAACTATCTCTGTTTATTGGATGTCCGTTCCAAATGGGAGTATGACGAAAGCCATGT
GATCACTGCCCTTCGAGTGAAGAAGAAAAATAATGAATATCTTCTCCCGGAGTCTGTGGA
CCTGGAGTGTGTGAAGTACTGCGTGGTGTATGATAACAACAGCAGCACCCTGGAGATACT
CTTAAAAGATGATGATGATGATTCAGACTCTGATGGTGATGGCAAAGATCTTGTGCCTCA

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AGCAGCCATTGAGTATGGCAGGATCCTGACCCGCCTCACCCACCACCCCGTCTACATCCT
GAAAGGGGGCTATGAGCGCTTCTCAGGCACGTACCACTTTCTCCGGACCCAGAAGATCAT
CTGGATGCCTCAGGAACTGGATGCATTTCAGCCATACCCCATTGAAATCGTGCCAGGGAA
GGTCTTCGTTGGCAATTTCAGTCAAGCCTGTGACCCCAAGATTCAGAAGGACTTGAAAAT
CAAAGCCCATGTCAATGTCTCCATGGATACAGGGCCCTTTTTTGCAGGCGATGCTGACAA
GCTTCTGCACATCCGGATAGAAGATTCCCCGGAAGCCCAGATTCTTCCCTTCTTACGCCA
CATGTGTCACTTCATTGAAATTCACCATCACCTTGGCTCTGTCATTCTGATCTTTTCCAC
CCAGGGTATCAGCCGCAGTTGTGCCGCCATCATAGCCTACCTCATGCATAGTAACGAGCA
GACCTTGCAGAGGTCCTGGGCCTATGTCAAGAAGTGCAAAAACAACATGTGTCCAAATCG
GGGGATTGGTGAGCCAGCTGCTGGAATGGGAGAAGACTATCCTTGGAGATTCCATCACAA
ACATCATGGATCCGCTCTACTGATCTTCTCCGAGGCCCACCGAAGGGTACTGAAGAGCCT
CACCTGGGGGCATTTTGTGGGTGGAGGGCCAGAGTGTGTATACCCAGGCTTGTCTGGAAG
GAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016086 unedited
AGCCTTGGGTTTTGTAATCGCACCTCCTATGGGCGTCCGAGCCCTTCGCACGAGGNAATG
AAAGCTTTTGGACCATCCTGGCAACCCCGGTGTTTGGCTGGGTTCTAGCGTATCCGTCTG
TGTGGCCGGTGGGGGACCTGCGGTCGGAGTGGGAGGGCCAGTCTGCACCCAAGATGTGGA
AGATGACGGGCTTTATGCTGGAAGCGCCTTATAGGATCCATTTTTCCAGGATGCCTGGTT
TGCTTTTATGTGAACCGACAGAGCTTTACAACATCCTGAATCAGGCCACAAAACTCTCCA
GATTAACAGACCCCAACTATCTCTGTTTATTGGATGTCCGTTCCAAATGGGAGTATGACG
AAAGCCATGTGATCACTGCCCTTCGAGTGAAGAAGAAAAATAATGAATATCTTCTCCCGG
AGTCTGTGGACCTGGAGTGTGTGAAGTACTGCGTGGTGTATGATAACAACAGCAGCACCC
TGGAGATACTCTTAAAAGATGATGATGATGATTCAGACTCTGATGGTGATGGCAAAGATC
TTGTGCCTCAAGCAGCCATTGAGTATGGCAGGATCCTGACCCGCCTCACCCACCACCCCG
TCTACATCCTGAAAGGGGGCTATGAGCGCTTCTCATGCACGTACCACTTTCTCCGGACCC
AGAAGATCATCTGGATGCCTCATGAACTGGATGCATTTCAGCCATACCCCATTGATATCG
TGCCATGGAATGTCTTCGTTGGCAATTTCAGTCAAGCCTGTGACCCCAGATTCAGAATGA
CTTGAATATCATAGCCCATGTCAATGTCTCCATGGATACAGGGCCCTTTTTTGCAGGCGA
TGCTGACAAGCTTCTGCACATTCGGATAGAATATTCCCCGAAGCCCATATTCTTCCCTTC
TT

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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016086 unedited
CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGAGACTTTCAGGCAGCAAA
GGCCTTCTCCTTCCAGACAAGCCTGGGTATACACACTCTGGCCCTCCACCCACAAAATGC
CCCCAGGTGAGGCTCTTCAGTACCCTTCGGTGGGCCTCGGAGAAGATCAGTAGAGCGGAT
CCATGATGTTTGTGATGGAATCTCCAAGGATAGTCTTCTCCCATTCCAGCAGCTGGCTCA
CCAATCCCCGATTTGGACACATGTTGTTTTTGCACTTCTTGACATAGGCCCAGGACCTCT
GCAAGGTCTGCTCGTTACTATGCATGAGGTAGGCTATGATGGCGGCACAACTGCGGCTGA
TACCCTGGGTGGAAAAGATCAGAATGACAGAGCCAAGGTGATGGTGAATTTCAATGAAGT
GACACATGTGGCGTAAGAAGGGAAGAATCTGGGCTTCCGGGGAATCTTCTATCCGGATGT
GCAGAAGCTTGTCAGCATCGCCTGCAAAAAAGGGCCCTGTATCCATGGAGACATTGACAT
GGGCTTTGATTTTCAAGTCCTTCTGAATCTTGGGGTCACAGGCTTGACTGAAATTGCCAA
CGAAGACCTTCCCTGGCACGATTTCAATGGGGTATGGCTGAAATGCATCCAGTTCCTGAG
GCATCCAGATGATCTTCTGGGTCCCGGAGAAAGTGGTACGTGCCTTGAGAAGCGCCTCAT
AGCCCCCTTTCAGGATGTANACCGGGTGGTGGGTGGAGCGGGTCAGGATCCCTGCCCTAC
TCCATGGGCTGCTTGAGGGACAAGATCCTTTGCCTTCCCTTCCGAGGCTGAATTCCTCTC
ATCATCTTTTAAAAGGTTTCCAGGGTGCCGGCGTTGGTACATAACCACGCAATCTTTACA
CCTCCAGGTCCCAGAATCCCGGAGGAGAATTTCTTTTTTTTTCTTCCTTCCTCGCAGG

Restriction Sites: NotI-NotI

ACCN: NM_016086

Insert Size: 1210 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_016086.2, NP_057170.1

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

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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]
Transcript Variant: This variant (1) encodes isoform (a). Variants 1, 2, and 3 encode the same isoform (a).

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