

Product datasheet for MR202580

Styx (NM_019637) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Styx (NM_019637) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Styx
Synonyms:	0610039A20Rik; hStyxb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202580 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGACGTGAACTGGAGTCCCTCGCTCCCGCAGTGCAAAGACGACGCCGAGGAGTGGACTTACC
CTATGAGACGAGAGATGCAGGAAGTTTTGCCTGGATTGTTCTTAGGCCATACTCTTCTGCTATGAAAAG
CAAGCTACCTATACTTCAGAAACATGGCATAACTCATATAATTTGCATACGGCAAATATTGAAGCAAAC
TTTATTAACCAAACCTTCAACAATTATTTAGATATTTAGTTTTGGATATTGCTGATAATCCAGTTGAAA
ACATAATACGTTTTTCCCTATGACTAAAGAGTTTATTGATGGAAGCTTACAAAATGGAGGAAAAGTTCT
TGTCATGGGAATGCAGGTATCTCTAGAAGTGCTCCCTTTGTCATTGCATACATCATGGAGACGTTTGGG
ATGAAATACAGAGATGCATTTGCTTATGTCCAAGAAAGGAGATTTGTATTAATCCTAATGCTGGATTTG
TCCACCACTTCAGGAATATGAAGCCATCTACTTAGCAAATTAACAATACAGATGATGTCACCACTCCA
AATAGAAAGGTCCTTAGCTGTTCACTTCTGGTACCACAGGTAGTGTGAAGAGAACACATGAGGAAGATGAC
GACTTTGGAAACATGCAAGTGGCAACCGCACAGAATGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202580 protein sequence
 Red=Cloning site Green=Tags(s)

MEDVKLEFPSPQPCKDDAEWYPMRREMQEVLPLGLFLGPYSSAMKSKLPILQKHGITHIICIRQNI EAN
 FIKPNFQQLFRYLVLADIADNPVENIIRFFPMTKEFIDGSLQNGGKVLVHGNAGISRSAFVIAYIMETFG
 MKYRDAFAYVQERRFCINPNAGFVHQLQEYEA IYLAKLTIQMMSPLQIERSLAVHSGTTGSVKRTHEEDD
 DFGNMQVATAQNG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019637

ORF Size: 672 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_019637.2](#), [NM_019637.3](#), [NP_062611.2](#)

RefSeq Size: 4258 bp

RefSeq ORF: 672 bp

Locus ID: 56291

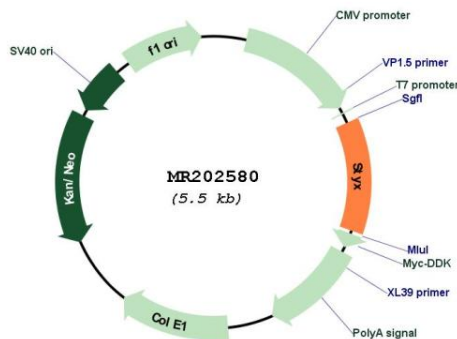
UniProt ID: [Q60969](#)

Cytogenetics: 14 C1

MW: 25.4 kDa

Gene Summary: Catalytically inactive phosphatase (PubMed:7592916). Acts as a nuclear anchor for MAPK1/MAPK3 (ERK1/ERK2) (By similarity). Modulates cell-fate decisions and cell migration by spatiotemporal regulation of MAPK1/MAPK3 (ERK1/ERK2) (By similarity). By binding to the F-box of FBXW7, prevents the assembly of FBXW7 into the SCF E3 ubiquitin-protein ligase complex, and thereby inhibits degradation of its substrates (By similarity). Plays a role in spermatogenesis (PubMed:11842224).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202580