

## Product datasheet for MC209360

### Scx (NM\_198885) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Scx (NM_198885) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Scx
Synonyms:	BB114693; bHLHa; Bhlha41; S; Scl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209360 representing NM_198885 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTTCGCCATGCTGCGTTCAGCGCCGCCGGGTCGCTACCTGTACCCTGAGGTGAGCCCGCTGT  
CGGAGGATGAGGACCGCGGAAGCGAGAGCTCGGGCTCCGACGAGAAACCTGCCGTGTGCATGCTGCGCG  
CTGTGGCCTCCAGGGCGCCGGCGGGCAGGAGGACGGAGGGCCGGGTAGCGGGCCAGGACCCGGG  
GGCGGGCCAGGCCGCGAGCCCCGCGAGCGGCACACAGCGAATGCGCGCGAGCGGGACCGCACCAACAGCG  
TGAACACGGCCTTCACTGCGCTGCGCACTCATCCCCACGAGCCAGCGGACCGCAAGCTCTCCAAGAT  
TGAGACGCTGCGCTGGCCTCCAGCTACATTTCTCACCTGGGCAATGTGCTGCTGGTGGGTGAGGCCTGT  
GGCGACGGGAACCATGCCACTCGGGACCCGCTTTCTTCCACAGCGGTGCTGCGGGCAGCCCACTGCCAC  
CGCCGCCCGCCACCACCCTGGCCAGAGACGGCGGAGAACACCCAGCCAAACAGATCTGCACCTT  
CTGCCTCAGCAACCAGAGAAAGTTGAGCAAGACCGTGACAGAAAGACGGCGATTCAAGT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_198885
Insert Size:	624 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_198885.3](#), [NP\\_942588.1](#)

**RefSeq Size:** 1136 bp

**RefSeq ORF:** 624 bp

**Locus ID:** 20289

**UniProt ID:** [Q64124](#)

**Cytogenetics:** 15 35.92 cM

**Gene Summary:** This gene encodes a basic helix-loop-helix type transcription factor involved in mesoderm and heart valve formation. The encoded protein is expressed during embryonic development of tendons and ligaments. The gene product regulates collagen type I gene expression in cardiac fibroblasts and myofibroblasts, and it may play a role in myocardial remodeling. The protein is expressed in the scar area of the adult heart following myocardial infarction. [provided by RefSeq, Feb 2010]