

## Product datasheet for **MC220755**

### Scin (NM\_001146196) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Scin (NM_001146196) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Scin
Synonyms:	adseverin; AW545522
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220755 representing NM\_001146196  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCAGGAGCTGCAGCACCCGAGTTCGCGCGCAGGCCAGCAGGCTGGGCTGCAGGTGTGGAGGG  
 TCGAGAAGCTGGAAGTACCGGTGCCCGAGGGTGCCTATGGTACTTTTACGTCGGAGACGCCTACCT  
 GGTGCTGCACACCACCAAGTCCAGCAGGGGCTTCTCTACCGCTGCATTTCTGGCTGGGAAAGGAGTGT  
 TCCCAGGATGAGAGCACAGCGGTGCCATCTTTACGGTCCAGATGGACGACTATTTGGGTGGCAAGCCAG  
 TCCAGAGCAGAGAGCTTCAAGGCTATGAGTCGACTGATTTTGTGGGCTATTTCAAAGCGGTCTGAAGTA  
 CAAGGCTGGAGGTGTGGCTTCTGGACTAAACCATGTCCTACCAATGATCTGACTGCGAAAAGACTTCTG  
 CACGTGAAGGGTCGGAGAGTGGTACAGAGCCACTGAAGTCCCCTCAGCTGGGAGAGCTTCAACAAGGGCG  
 ACTGCTTCATCATTGACCTTGGCACCGAAATTTACCAGTGGTGTGGTTCCTCTGCAACAAATATGAGCG  
 TCTGAAAGCAAGCCAGGTGGCCATTGGCATCCGGGACAATGAGAGGAAAGGAAGATCTCAACTCATTGTG  
 GTGGAAGAAGGAAGTGAACCATCAGAGCTCATGAAGGTTTTAGGGAGAAAGCCTGAGCTTCCAGATGGGG  
 ACAATGATGACGATGTCGTAGCAGACATAAGTAACAGGAAGATGGCGAAGCTCTACATGGTTTCAGATGC  
 AAGTGGGTCCATGAAAGTAACTGGTGGCTGAAGAAAACCCGTTCTCCATGGGAATGTTGCTTTCTGAA  
 GAATGCTTCATTTGGACCATGGTGTGCTGCAAAAACAAATTTTTGTATGAAAGGTAAGAAATGCTAACCCAC  
 AGGAGAGGAAGACTGCCATGAAGACAGCTGAGGAGTTTTTACAGAAAATGAAGTATTCTACTAATACTCA  
 AATTCAGTTCCTCCGGAAGGCGGTGAAACACCAATTTTCAAACAGTCTTTAAGGACTGGAAGGATAAA  
 GACCAGAGTGTGGCTTTGGGAAGGTGTACATCACGGAGAAAGTGGCTCAGATAAAGCAGATTCCGTTTTG  
 ATGCCTCAAACCTGCACAGTTCCTCCGAGATGGCAGCCAGCACAAACATGGTGGACGATGGCTCTGGCGG  
 GGTGGAGATCTGGCGTGTAGAGAACAGTGGTAGAGTCCAGATTGACCCAAGCTCCTATGGCGAGTCTAT  
 GGCGGTGACTGCTACATTACCTCTACACTTATCCCAGAGGACAGATCATCTACACATGGCAAGGAGCAA  
 ATGCTACCAGAGATGAACTGACCATGTCCGCTTTCTGACTGTCCAGTTGGACCGGTCCCTTGGAGGGCA  
 GGCTGTGCAGGTCCGTGTCTCTCAAGGCAAGAGCCTGCTCACCTGCTGAGTTTGTCAAAGACAAACCA  
 CTCATTATTTATAAGAATGGGACATCCAAGAAAGAAGGGCAGGCACCGGCTCCCCCTACACGCCTTTTTTC  
 AAGTCCGGAGGAACCTGGCATCTATCACCAGAATTGTGGAGGTTGACGTTGATGCAAATTCATTAATTC  
 TAATGACTTTTTGTCTAAAACGCCACGAAACAATGGCTTCATCTGGATAGGAAAAGGTGCTAGCCAG  
 GAGGAGGAAAGGAGCAGAGTATGTGGCTGATGTCCTCAAGTCAAAGCTTCAAGAATTCAGAAGGCA  
 AGGAACCAGAGGAATCTTGGAACTCTCTTGGAGGGAGGGGAGACTACCAGACTTACCATTGCTAGAAAC  
 TCGGGCTGAAGACCATCCACCTCGGCTTATGTTGCTCCAACAAAACCTGGAAGATTCATTATTGAAGAA  
 GTTCCGGGAGAGTTACCCAGGATGACCTGGCAGAAGATGATGTCATGCTACTTGTGCGTGGGAACAGA  
 TCTTTATTTGGATTGGCAAAGATGCCAATGAAGTTGAGAAAAAGGAATCAGTGAAGTCTGCCAAAATGTA  
 CCTGGAGACAGACCCTTCTGGAAGAGACAAGAGGACACCGATTGTCATCATCAAGCAAGGGCACGAGCCC  
 CCCACATTCACAGGCTGGTTTCTGGGCTGGGACTCCAGCAGGTGG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001146196  
**Insert Size:** 2148 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001146196.1, NP_001139668.1</u>
<b>RefSeq Size:</b>	3008 bp
<b>RefSeq ORF:</b>	2148 bp
<b>Locus ID:</b>	20259
<b>UniProt ID:</b>	<u>Q60604</u>
<b>Cytogenetics:</b>	12 B1
<b>Gene Summary:</b>	<p>Ca(2+)-dependent actin filament-severing protein that has a regulatory function in exocytosis by affecting the organization of the microfilament network underneath the plasma membrane (PubMed:9671468). Severing activity is inhibited by phosphatidylinositol 4,5-bisphosphate (PIP2) (By similarity). In vitro, also has barbed end capping and nucleating activities in the presence of Ca(2+) (PubMed:9671468). Required for megakaryocyte differentiation, maturation, polyploidization and apoptosis with the release of platelet-like particles (By similarity). Plays a role in osteoclastogenesis (OCG) and actin cytoskeletal organization in osteoclasts (PubMed:25275604, PubMed:25681458). Regulates chondrocyte proliferation and differentiation (By similarity). Inhibits cell proliferation and tumorigenesis. Signaling is mediated by MAPK, p38 and JNK pathways (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>