

Product datasheet for **MC219710**

Scin (NM_009132) Mouse Untagged Clone

Product data:

| | |
|--------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Scin (NM_009132) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Scin |
| Synonyms: | adseverin; AW545522 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC219710 representing NM_009132
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGGAGCTGCAGCACCCGAGTTCGCGCGCAGGCCAGCAGGCTGGGCTGCAGGTGTGGAGGG
 TCGAGAAGCTGGAACGTGTACCGGTGCCCCAGGGTGCCTATGGTGACTTTTACGTGCGAGACGCCTACCT
 GGTGCTGCACACCACCAAGTCCAGCAGGGGCTTCTCTACCGCCTGCATTTCTGGCTGGGAAAGGAGTGT
 TCCCAGGATGAGAGCACAGCGGTGCCATCTTTACGGTCCAGATGGACGACTATTTGGGTGGCAAGCCAG
 TCCAGAGCAGAGAGCTTCAAGGCTATGAGTCGACTGATTTTGTGGGCTATTTCAAAGGCGGTCTGAAGTA
 CAAGGCTGGAGGTGTGGCTTCTGGACTAAACCATGTCCTACCAATGATCTGACTGCGAAAAGACTTCTG
 CACGTGAAGGGTCGGAGAGTGGTCCAGAGCCACTGAAGTCCCCTCAGCTGGGAGAGCTTCAACAAGGGCG
 ACTGCTTCATCATTGACCTTGGCACCGAAATTTACCAGTGGTGTGGTTCCTCCTGCAACAAATATGAGCG
 TCTGAAAGCAAGCCAGGTGGCCATTGGCATCCGGGACAATGAGAGGAAAGGAAGATCTCAACTCATTGTG
 GTGGAAGAAGGAAGTGAACCATCAGAGCTCATGAAGGTTTTAGGGAGAAAGCCTGAGCTTCCAGATGGGG
 ACAATGATGACGATGTCGTAGCAGACATAAGTAACAGGAAGATGGCGAAGCTCTACATGGTTTCAGATGC
 AAGTGGGTCCATGAAAGTAACTGGTGGCTGAAGAAAACCCGTTCTCCATGGGAATGTTGCTTTCTGAA
 GAATGCTTCATTTGGACCATGGTGTGCTGCAAAAACAAATTTTTGTATGAAAGGTAAGAAATGCTAACCCAC
 AGGAGAGGAAGACTGCCATGAAGACAGCTGAGGAGTTTTTACAGAAAATGAAGTATTCTACTAATACTCA
 AATTCAGTTCCTCCGGAAGGCGGTGAAACACCAATTTTCAAACAGTTCCTTAAGGACTGGAAGGATAAA
 GACCAGAGTGATGGCTTTGGGAAGGTGTACATCACGGAGAAAGTGGCTCAGATAAAGCAGATTCGTTTTG
 ATGCCTCAAACTGCACAGTTCCTCCGAGATGGCAGCCAGCACAAACATGGTGGACGATGGCTCTGGCGG
 GGTGGAGATCTGGCGTGTAGAGAACAGTGGTAGAGTCCAGATTCACCAAGCTCCTATGGCGAGTTCTAT
 GGCGGTGACTGCTACATTACCTCTACACTTATCCCAGAGGACAGATCATCTACACATGGCAAGGAGCAA
 ATGCTACCAGAGATGAACTGACCATGTCCGCTTTCTGACTGTCCAGTTGGACCGGTCCCTTGGAGGGCA
 GGCTGTGCAGGTCCGTGTCTCTCAAGGCAAGAGCCTGCTCACCTGCTGAGTTTGTCAAAGACAAACCA
 CTCATTATTTATAAGAATGGGACATCCAAGAAAGAGGGCAGGCACCGGCTCCCCCTACACGCTTTTTTC
 AAGTCCGGAGGAACCTGGCATCTATCACCAGAATTGTGGAGATTGAAGAAGTCCGGGAGAGTTCACCCA
 GGATGACCTGGCAGAAGATGATGTATGCTACTTGATGCGTGGGAACAGATCTTTATTTGGATTGGCAA
 GATGCCAATGAAGTTGAGAAAAAGGAATCAGTGAAGTCTGCCAAATGTACCTGGAGACAGACCCTCTG
 GAAGAGACAAGAGGACACCGATTGTATCATCAAGCAAGGGCACGAGCCCCCACATTACAGGCTGGTT
 TCTGGGCTGGGACTCCAGCAGGTGG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_009132

Insert Size: 1848 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_009132.2](#), [NP_033158.2](#)

RefSeq Size: 2708 bp

RefSeq ORF: 1848 bp

Locus ID: 20259

UniProt ID: [Q60604](#)

Cytogenetics: 12 B1

Gene Summary: 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] Transcript Variant: This variant (2) lacks two exons in the 3' coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1.