

Product datasheet for **MR210229**

Scin (NM_001146196) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>MR210229 representing NM_001146196
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGCAGGAGCTGCAGCACCCGAGTTCGCGCGCCAGGCCAGCAGGCTGGGCTGCAGGTGTGGAGGG
TCGAGAAGCTGGAAGTGGTACCGGTGCCCCAGGGTGCCTATGGTACTTTTACGTCGGAGACGCCTACCT
GGTGTGCACACCACCAAGTCCAGCAGGGGCTTCTCTACCGCTGCATTTCTGGCTGGGAAAGGAGTGT
TCCCAGGATGAGAGCACAGCGGTGCCATCTTTACGGTCCAGATGGACGACTATTTGGGTGGCAAGCCAG
TCCAGAGCAGAGAGCTTCAAGGCTATGAGTCGACTGATTTTGTGGGCTATTTCAAAGCGGTCTGAAGTA
CAAGGCTGGAGGTGTGGCTTCTGGACTAAACCATGTCCTACCAATGATCTGACTGCGAAAAGACTTCTG
CACGTGAAGGGTCGGAGAGTGGTACAGGCCACTGAAGTCCCCTCAGCTGGGAGAGCTTCAACAAGGGCG
ACTGCTTCATCATTGACCTTGGCACCGAAATTTACCAGTGGTGTGGTTCCTCCTGCAACAAATATGAGCG
TCTGAAAGCAAGCCAGGTGGCCATTGGCATCCGGGACAATGAGAGGAAAGGAAGATCTCAACTCATTGTG
GTGGAAGAAGGAAGTGAACCATCAGAGCTCATGAAGGTTTTAGGGAGAAAGCCTGAGCTTCCAGATGGGG
ACAATGATGACGATGTCGTAGCAGACATAAGTAACAGGAAGATGGCGAAGCTCTACATGGTTTCAGATGC
AAGTGGGTCCATGAAAGTAACTGGTGGCTGAAGAAAACCCGTTCTCCATGGGAATGTTGCTTTCTGAA
GAATGCTTCATTTGGACCATGGTGTGCTGCAAAAACAAATTTTTGTATGAAAGGTAAGAAATGCTAACCCAC
AGGAGAGGAAGACTGCCATGAAGACAGCTGAGGAGTTTTTACAGAAAAAGAGTATTCTACTAATACTCA
AATTCAGTTCCTCCGGAAGGCGGTGAAACACCAATTTTCAAACAGTTCCTTAAGGACTGGAAGGATAAA
GACCAGAGTGTGGCTTTGGGAAGGTGTACATCACGGAGAAAGTGGCTCAGATAAAGCAGATTCCGTTTTG
ATGCCTCAAACCTGCACAGTTCCTCCGAGATGGCAGCCAGCACAAACATGGTGGACGATGGCTCTGGCGG
GGTGGAGATCTGGCGTGTAGAGAACAGTGGTAGAGTCCAGATTGACCCAAGCTCCTATGGCGAGTTCAT
GGCGGTGACTGCTACATTACCTCTACACTTATCCCAGAGGACAGATCATCTACACATGGCAAGGAGCAA
ATGCTACCAGAGATGAACTGACCATGTCCGCGTTTCTGACTGTCCAGTTGGACCGGTCCCTTGGAGGGCA
GGCTGTGCAGGTCCGTGTCTCTCAAGGCAAGAGCCTGCTCACCTGCTGAGTTTGTTCAAAGACAAACCA
CTCATTATTTATAAGAATGGGACATCCAAGAAAGAAGGGCAGGCACCGGCTCCCCCTACACGCCTTTTTTC
AAGTCCGGAGGAACCTGGCATCTATCACCAGAATTGTGGAGGTTGACGTTGATGCAAATTCATTAATTC
TAATGACACTTTTGTCTAAAACCTGCCACGAAACAATGGCTTCATCTGGATAGGAAAAGGTGCTAGCCAG
GAGGAGGAGAAAGGAGCAGAGTATGTGGCTGATGTCCTCAAGTCAAAGCTTCAAGAATTCAGAAGGCA
AGGAACCAGAGGAATTTGGAACCTCTTTGGAGGGAGGGGAGACTACCAGACTTACCATTGCTAGAAAC
TCGGGCTGAAGACCATCCACCTCGGCTTATGGTTGCTCCAACAAAACCTGGAAGATTCATTATTGAAGAA
GTTCCGGGAGAGTTTACCAGGATGACCTGGCAGAAGATGATGTCATGCTACTTGTGCGTGGGAACAGA
TCTTTATTTGGATTGGCAAAGATGCCAATGAAGTTGAGAAAAAGGAATCAGTGAAGTCTGCCAAAATGTA
CCTGGAGACAGACCCTTCTGGAAGAGACAAGAGGACACCGATTGTCATCATCAAGCAAGGGCAGGAGCCC
CCCACATTCACAGGCTGGTTTCTGGGCTGGGACTCCAGCAGGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210229 representing NM_001146196
 Red=Cloning site Green=Tags(s)

MAQELQHPEFARAGQQAGLQVWRVEKLELVPVPQAYGDFYVGDAYLVLHTTKSSRGFSYRLHFWLGKEC
 SQDESTAAAIFTVQDDYLGGKPVQSRELQGYESTDFVGYFKGGLKYKAGGVASGLNHVL TNDL TAKRL
 HVKGRVVRATEVPLSWESFNKGDCFIIDLGTEIYQWCGSSCNKYERLKASQVAIGIRDNERKGRSOLIV
 VEEGSEPSSELMKVLGRKPELPGDNDDDVVADISNRKMAKLYMVSDASGSMKVTLVAEENPF SMGMLLSE
 ECFILDHGAAKQIFVWKGKNANPQERKTAMKTAEEFLQKMKYSTNTQIQVLP EGGETPIFKQFFKDWKDK
 DQSDGFVKVYITEKVAQIKQIPFDASKLHSSPQMAAQHNMVDDGSGGVEIWRVENSGRVQIDPSSYGEFY
 GGDCYIILYTYPRGQIIYTWQGANATRDEL TMSAFLTVQLDRSLGGQAVQVRV SQGKEPAHLLSLFKDKP
 LIIYKNGTSKKEGQAPAPPTRLFQVRRNLASITRIVEVDVANSLSNDTFVLKLP RNNGF IWIGKGASQ
 EEEKGAEYVADV LKCKASRIQEGKEPEEFWNSLGGRGDYQTSPLLETRAEDHPRLYGC SNKTGRFIEE
 VPGEFTQDDLAEDDVMLLD AWEQIFIWIGKDANEVEKESVKS AKMYLETDP SGRDKRTP I V I I K Q G H E P
 PTFTGWFLGWSSRW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001146196

ORF Size: 2145 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_001146196.1](#), [NP_001139668.1](#)

RefSeq Size: 3008 bp

RefSeq ORF: 2148 bp

Locus ID: 20259

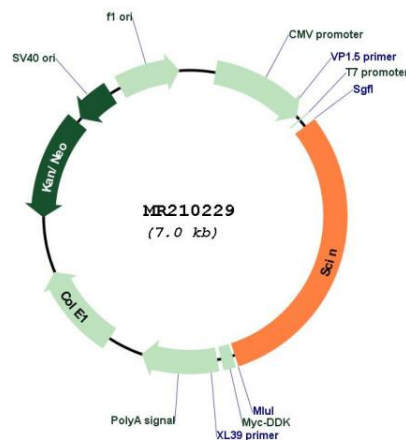
UniProt ID: [Q60604](#)

Cytogenetics: 12 B1

MW: 80.7 kDa

Gene Summary: Ca²⁺-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 Ca²⁺ (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]

Product images:



Circular map for MR210229