

Product datasheet for **MR218765**

Scin (NM_009132) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scin (NM_009132) 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)



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ORF Nucleotide Sequence:

>MR218765 representing NM_009132
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCAGGAGCTGCAGCACCCGAGTTCGCGCGCAGGCCAGCAGGCTGGGCTGCAGGTGTGGAGGG
 TCGAGAAGCTGGAAGTACCGGTGCCAGGGTGCCTATGGTACTTTTACGTCGGAGACGCCTACCT
 GGTGCTGCACACCACCAAGTCCAGCAGGGGCTTCTCTACCGCTGCATTTCTGGCTGGGAAAGGAGTGT
 TCCCAGGATGAGAGCACAGCGGCTGCCATCTTTACGGTCCAGATGGACGACTATTTGGGTGGCAAGCCAG
 TCCAGAGCAGAGAGCTTCAAGGCTATGAGTCGACTGATTTTGTGGGCTATTTCAAAGCGGTCTGAAGTA
 CAAGGCTGGAGGTGTGGCTTCTGGACTAAACCATGTCCTACCAATGATCTGACTGCGAAAAGACTTCTG
 CACGTGAAGGGTCGGAGAGTGGTCCAGAGCCACTGAAGTCCCCTCAGCTGGGAGAGCTTCAACAAGGGCG
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 TCTGAAAGCAAGCCAGGTGGCCATTGGCATCCGGGACAATGAGAGGAAAGGAAGATCTCAACTCATTGTG
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 ACAATGATGACGATGTCGTAGCAGACATAAGTAACAGGAAGATGGCGAAGCTCTACATGGTTTCAGATGC
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 CTCATTATTTATAAGAATGGACATCCAAGAAAGAGGGCAGGCACCGGCTCCCCCTACACGCTTTTTTC
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 GGATGACCTGGCAGAAGATGATGTATGCTACTGATGCGTGGGAACAGATCTTTATTTGGATTGGCAAA
 GATGCCAATGAAGTTGAGAAAAAGGAATCAGTGAAGTCTGCCAAATGTACTGGAGACAGACCCTTCTG
 GAAGAGACAAGAGGACACCGATTGTATCATCAAGCAAGGGCACGAGCCCCCACATTACAGGCTGGT
 TCTGGGCTGGACTCCAGCAGGTGG

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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

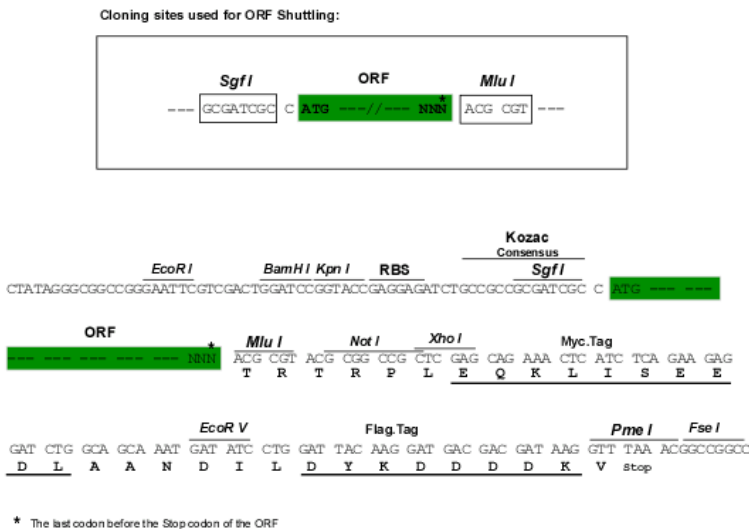
>MR218765 representing NM_009132
 Red=Cloning site Green=Tags(s)

MAQELQHPEFARAGQQAGLQVWRVEKLELVPVQGAYGDFYVGDAYLVLHTTKSSRGFSYRLHFWLGKEC
 SQDESTAAAIFTVQDDYLGGKPVQSRELQGYESTDFVGYFKGGLKYKAGGVASGLNHVL TNDL TAKRLL
 HVKGRRVVRAVEVPLSWESFNKGDCFIIDLGTEIYQWCGSSCNKYERLKAQVAIGIRDNERKGRSGLIV
 VEEGSEPSSELMKVLGRKPELPGDNDVVADISNRKMAKLYMVSASGSMKVTLVAENPF SMGMLLSE
 ECFILDHGAAKQIFVWKGNANPQERKTAMKTAEEFLQKMKYSTNTQIQVLPEGGETPIFKQFFKDWKDK
 DQSDGFVKVYITEKVAQIKQIPFDASKLHSSPQMAAQHNMVDDGSGGVEIWRVENSGRVQIDPSSYGEFY
 GGDCYIILYTYPRGQIIYTWQGANATRDEL TMSAFLTVQLDRSLGGQAVQVRVVSQKQEPHLLSLFKDKP
 LIIYKNGTSKKEGQAPAPPTRLFQVRRNLASITRIVEIEEVPGEFTQDDLAEDDVMLLD AWEQIFIWIGK
 DANEVEKESVKSAMYLETDPSGRDKRTPIVI IKQHEPPTFTGWFLGWDSRW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009132

ORF Size: 1845 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_009132.2](#), [NP_033158.2](#)

RefSeq Size: 2708 bp

RefSeq ORF: 1848 bp

Locus ID: 20259

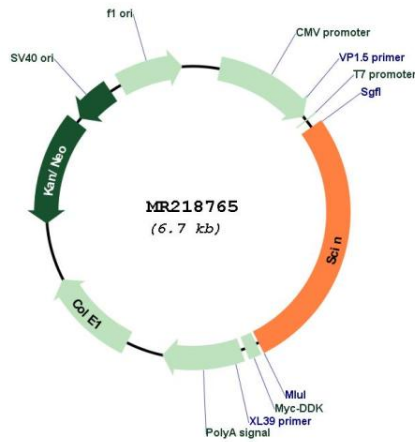
UniProt ID: [Q60604](#)

Cytogenetics: 12 B1

MW: 69.6 kDa

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]

Product images:



Circular map for MR218765