

Product datasheet for **MG218765**

Scin (NM_009132) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scin (NM_009132) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Scin
Synonyms:	adseverin; AW545522
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218765 representing NM_009132
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCAGGAGCTGCAGCACCCGAGTTCGCGCGCAGGCCAGCAGGCTGGGCTGCAGGTGTGGAGGG
 TCGAGAAGCTGGAAGTACCGGTGCCAGGGTGCCTATGGTACTTTTACGTCGGAGACGCCTACCT
 GGTGCTGCACACCACCAAGTCCAGCAGGGGCTTCTCTACCGCTGCATTTCTGGCTGGGAAAGGAGTGT
 TCCCAGGATGAGAGCACAGCGGCTGCCATCTTTACGGTCCAGATGGACGACTATTTGGGTGGCAAGCCAG
 TCCAGAGCAGAGAGCTTCAAGGCTATGAGTCGACTGATTTTGTGGGCTATTTCAAAGCGGTCTGAAGTA
 CAAGGCTGGAGGTGTGGCTTCTGGACTAAACCATGTCCTACCAATGATCTGACTGCGAAAAGACTTCTG
 CACGTGAAGGGTCGGAGAGTGGTCCAGAGCCACTGAAGTCCCCTCAGCTGGGAGAGCTTCAACAAGGGCG
 ACTGCTTCATCATTGACCTTGGCACCGAAATTTACCAGTGGTGTGGTTCCTCTGCAACAAATATGAGCG
 TCTGAAAGCAAGCCAGGTGGCCATTGGCATCCGGGACAATGAGAGGAAAGGAAGTCTCAACTCATTGTG
 GTGGAAGAAGGAAGTGAACCATCAGAGCTCATGAAGGTTTTAGGGAGAAAGCCTGAGCTTCCAGATGGGG
 ACAATGATGACGATGTCGTAGCAGACATAAGTAACAGGAAGATGGCGAAGCTCTACATGGTTTCAGATGC
 AAGTGGTCCATGAAAGTAACTGGTGGCTGAAGAAAACCCGTTCTCCATGGGAATGTTGCTTTCTGAA
 GAATGCTTCATTTGGACCATGGTGTGCAAAAACAAATTTTTGTATGAAAGGTAAGGTAAGTAAACCCAC
 AGGAGAGGAAGACTGCCATGAAGACAGCTGAGGAGTTTTTACAGAAAATGAAGTATTCTACTAATACTCA
 AATTACAGTTCCTCCGGAAGCGGTGAAACACCAATTTTCAAACAGTCTTTAAGGACTGGAAGGATAAA
 GACCAGAGTGTGGCTTTGGGAAGGTGTACATCACGGAGAAAGTGGCTCAGATAAAGCAGATTCCGTTTG
 ATGCCTCAAACATGCACAGTTCCTCCGAGATGGCAGCCAGCACACAACATGGTGGACGATGGCTCTGGCGG
 GGTTGGAGATCTGGCGTGTAGAGAACAGTGGTAGAGTCCAGATTGACCCAAGCTCCTATGGCGAGTCTAT
 GGCGGTGACTGCTACATTACCTCTACACTTATCCCAGAGGACAGATCATCTACACATGGCAAGGAGCAA
 ATGCTACCAGAGATGAACTGACCATGTCCGCGTTTCTGACTGTCCAGTTGGACCGGTCCCTTGGAGGGCA
 GGCTGTGCAGGTCGTCTCTCAAGGCAAGAGCCTGCTCACCTGCTGAGTTTGTCAAAGACAAACCA
 CTCATTATTTATAAGAATGGACATCCAAGAAAGAGGGCAGGCACCGGCTCCCCCTACACGCTTTTTTC
 AAGTCCGAGGAACCTGGCATCTATCACCAGAATTGTGGAGATTGAAGAAGTCCGGGAGAGTTCACCCA
 GGATGACCTGGCAGAAGATGATGTATGCTACTGATGCGTGGGAACAGATCTTTATTTGGATTGGCAA
 GATGCCAATGAAGTTGAGAAAAAGGAATCAGTGAAGTCTGCCAAATGTACCTGGAGACAGACCCTCTG
 GAAGAGACAAGAGGACACCGATTGTATCATCAAGCAAGGGCACGAGCCCCCACATTACAGGCTGGT
 TCTGGGCTGGGACTCCAGCAGGTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218765 representing NM_009132
 Red=Cloning site Green=Tags(s)

MAQELQHPEFARAGQQAGLQVWRVEKLELVPVPQAYGDFYVGDAYLVLHTTKSSRGSYRHLHFWLGKEC
 SQDESTAAAIFTVQDDYLGGKPVQSRELQGYESTDFVGYFKGGLKYKAGGVASGLNHLVLTNDLAKRLL
 HVKRRVVRATEVPLSWESFNKGDCEIDLGTEIYQWCGSSCNKYERLKASQVAIGIRDNERKGRSRLIV
 VEEGSEPSSELMKVLGRKPELPGDNDVVADISNRKMAKLYMVSASGSMKVTLVAEENPFMSGMLLSE
 ECFILDHGAQKQIFVWKGKNANPQERKTAMKTAEEFLQKMKYSTNTQIQVLPPEGGETPIFKQFFKDWKDK
 DQSDGFGKVVYITEKVAQIKQIPFDASKLHSSPQMAAQHNMVDDGSGGVEIWRVENSGRVQIDPSSYGEFY
 GGDCYIILYTYPRGQIIYTWQGANATRDELTMSAFLTVQLDRSLGGQAVQVRVVSQKQEPHLLSLFKDKP
 LIYKNGTSKKEGQAPAPPTRLFQVRRNLASITRIVEIEEVPGEFTQDDLAEDDVMLLDWEQIFIWIGK
 DANEVEKESVKSAMYLETDPSGRDKRTPIVIIKQGHPPFTTGWFLGWDSRW

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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-bis-phosphate (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]