

Product datasheet for MR227029

Sfn (NM_018754) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sfn (NM_018754) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sfn
Synonyms:	Er; Mme1; Ywhas
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227029 representing NM_018754 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGAGCCAGTCTGATCCAGAAGGCCAAGTTGGCTGAACAGGCCGAACGGTATGAAGACATGGCAG
CTTTCATGAAGAGCGCCGTGAAAAGGGCGAGGAGCTCTCCTGCGAGGAGCGAAACCTGCTTCCGTAGC
TTACAAGAACGTGGTGGCGGCCAGAGAGCGGCCTGGAGGGTCTGTCCAGCATCGAGCAGAAGAGCAAC
GAGGAGGGGTGAGAAGAGAAGGGCCCCGAGGTGAAAGAGTACCGGGAGAAGGTAGAGACCGAGCTCAGAG
GTGTGTGCGACACCGTACTCGCCTGCTGGACTCGCACCTCATCAAAGGGGCTGGAGATGCAGAGAGCCG
CGTCTTCTACCTGAAGATGAAGGGTGACTACTACCGCTACCTAGCCGAGGTGGCCACTGGCGATGACAAG
AAGCGCATCATCGATTCTGCCCGGTGAGCCTACCAGGAGGCCATGGACATCAGCAAGAAGGAGATGCCGC
CTACCAACCCCATCCGCCTGGCCCTGGCCCTGAACTTTTCAGTCTTCCACTACGAGATAGCCAACAGCCC
CGAGGAGGCCATCTCGCTGGCCAAGACCACCTTCGACGAGGCCATGGCCGACCTGCACACCTCAGTGAG
GACTCTACAAGGACAGCACCTCATCATGCAGCTCCTGAGAGACAACCTGACGCTGTGGACAGCCGACA
GTGCTGGGAAGAGGGTGGTGGGCTCCGGAGGAGCCCCAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227029 representing NM_018754
 Red=Cloning site Green=Tags(s)

MERASLIQKAKLAEQAERYEDMAAFMKSAVEKGEELSCERNLLSVAYKNVVGQRAAWRVLSSIEQKSN
 EEGSEEKGPEVKEYREKVELRGVCDTVLGLLDSHLIKGAGDAESRVFYLKMKGDYYRYLAEVATGDDK
 KRIIDSARSAYQEAMDISKEMPPTNPIRLGLALNFSVFHYEIANSPEEAISLAKTTFFDEAMADLHLLSE
 DSYKDSTLIMQLLRDNLTLWTADSAGEEGEAPEEPQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_018754

ORF Size: 744 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_018754.2](#), [NP_061224.2](#)

RefSeq Size: 1616 bp

RefSeq ORF: 747 bp

Locus ID: 55948

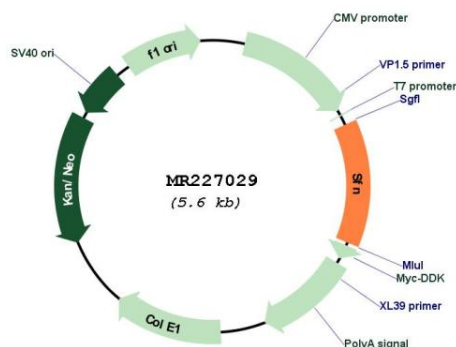
UniProt ID: [O70456](#)

Cytogenetics: 4 66.25 cM

MW: 28.2 kDa

Gene Summary: Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. When bound to KRT17, regulates protein synthesis and epithelial cell growth by stimulating Akt/mTOR pathway. May also regulate MDM2 autoubiquitination and degradation and thereby activate p53/TP53.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227029