

## Product datasheet for **MG227029**

### Sfn (NM\_018754) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sfn (NM_018754) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sfn
Synonyms:	Er; Mme1; Ywhas
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227029 representing NM_018754 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAGAGCCAGTCTGATCCAGAAGGCCAAGTTGGCTGAACAGGCCGAACGGTATGAAGACATGGCAG  
CTTTCATGAAGAGCGCCGTGAAAAGGGCGAGGAGCTCTCCTGCGAGGAGCGAAACCTGCTTCCGTAGC  
TTACAAGAACGTGGTGGCGGCCAGAGAGCGGCCTGGAGGGTCTGTCCAGCATCGAGCAGAAGAGCAAC  
GAGGAGGGGTGAGAAGAGAAGGGCCCCGAGGTGAAAGAGTACCGGGAGAAGGTAGAGACCGAGCTCAGAG  
GTGTGTGCGACACCGTACTCGCCTGCTGGACTCGCACCTCATCAAAGGGGCTGGAGATGCAGAGAGCCG  
CGTCTTCTACCTGAAGATGAAGGGTGACTACTACCGCTACCTAGCCGAGGTGGCCACTGGCGATGACAAG  
AAGCGCATCATCGATTCTGCCCGGTGAGCCTACCAGGAGGCCATGGACATCAGCAAGAAGGAGATGCCGC  
CTACCAACCCATCCGCCTGGCCCTGGCCCTGAACTTTTCAGTCTTCCACTACGAGATAGCCAACAGCCC  
CGAGGAGGCCATCTCGCTGGCCAAGACCACCTTCGACGAGGCCATGGCCGACCTGCACACCTCAGTGAG  
GACTCCTACAAGGACAGCACCTCATCATGCAGCTCCTGAGAGACAACCTGACGCTGTGGACAGCCGACA  
GTGCTGGGAAGAGGGTGGTGGCTCCGGAGGAGCCCCAGAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG227029 representing NM\_018754  
Red=Cloning site Green=Tags(s)

MERASLIQKAKLAEQAERYEDMAAFMKSAVEKGEELSCERNLLSVAYKNVVGQRAAWRVLSSIEQKSN  
 EEGSEEKGPEVKEYREKVELRGVCDTVLGLLDShLlKAGDAESRVFYLKMKGDYYRYLAEVATGDDK  
 KRIIDSARSAYQEAMDISKKEMPPPTNPIRLGLALNFSVFHYEIANSPEEAISLAKTTFFDEAMADLHTLSE  
 DSYKDSTLIMQLLRDNLTLWTADSAGEEGEAEPEEPQS

TRTRPLE - GFP Tag - V

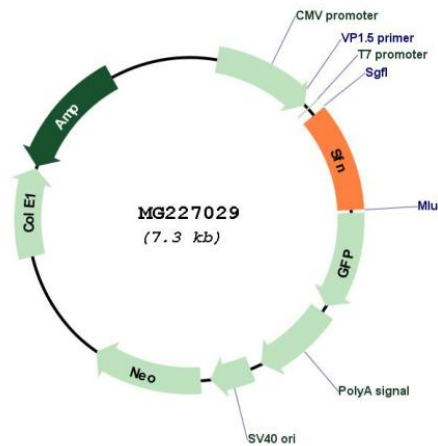
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_018754

**ORF Size:** 744 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_018754.2</a> , <a href="#">NP_061224.2</a>
<b>RefSeq Size:</b>	1616 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	55948
<b>UniProt ID:</b>	<a href="#">O70456</a>
<b>Cytogenetics:</b>	4 66.25 cM
<b>Gene Summary:</b>	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]