

Product datasheet for **MG215646**

Shroom1 (NM_027917) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shroom1 (NM_027917) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Shroom1
Synonyms:	Apx; Shrm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MG215646 representing NM_027917
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAGGCCCTGGTACTGGGAGAGACCGCACCTCCAGGCCCTCAGCCACTGAAAGCCTGGACTTGCGAC
 GGTTGTCCACGCGCGCCGACTCTGCCTACAGCTCTTTCTCCACGGCGTCTGGTGATCCTGAGACGCGCAC
 TCCGTCCCTGGCACCGAGCGCCTCCCTTACCTAGACTGGGACTACGTGCGAGTGTTTGGGGCAGCCAA
 TCTCTACCTCGAAGGACGCTGTCTTTCAACGACTCAGCGACCTGTGCAGGCAGTCGCTGGGCACAGTG
 ACCCACGGTCCCCAGAGGTCCAGGGAAGCCCGGGACCACTAAACAGACAAGACACCCCACTGCTGTACGC
 GCTGGCCGCGGAGGCTGAAGCTACAGCTCACACCGCAGAGCCGCCAGCCGCCAGCCTCGCGGGACGCC
 TACCGCCAGCGGTTGCAGGTTGCACAGCGACGAGTGCTGCGGGAGACGTCCTTCCAGCGAAAGGAGTTTC
 GCATGAGCCTGCCGGGCCGCTGCGTCCCGCAGTCCCGACGCGACTTCCACGGCGCACGTGCGCTCCGC
 CTCCAGCAGCCAGGAGCTGGGAGAAGAGGAGCCGGCGCGCACCGCTGTCCAGCGCTAGCTGCTGCTGGC
 CGGGGGCGTCTCTCCAGCCAGCAGCGGCAGTGCTGCTTCTCTGAGCCAGGCAAAATTACATCGCGTAGGTT
 GGAGCGGTGGGCCCACTGGTGAAGACTTGAAGAAAGATTATCCACGCAGGAGTTGCAGCGTGGGATGCA
 CGCAAAGTCCAAAGGGCTGCTGGAGACTCAGTCCCTAAGCTCAACGGAGCTGAATTCGGGCCAGCGGAT
 CTTGGCAATGCCATAGACCTGCGGGTCGGAGTCAGAGTGTTTTCAGGCGAGGTCATGGGTCCCTGCAAGG
 GTTCAGAAAGGACTGTGGCCACTGTCCAGGCTGTTCTCAAAGAGCAGACATCCGACAGCACTGCTTCA
 CACCAAGCTTTCCAGGCTTTGACTCAGAAGGAGGTACAGGAGTGTTCTCTGGAGAGGCCCTCCAGACC
 AAACCGGCTGGCTGTGGTCGGAGAATCTCTGAGACCTCGGTGTCTACTCCGGGCCCTCCCTCCCTGAAG
 ATGACGTGTTCTGAGAGAAGCCAAACACCGTCACCTCAAGATTCCCAAGGGCTCCCCACCAGCACCTC
 CTACCGGCAGTATGAAAACGACTTAAGCAAAAAAGCTGGTCAGATTGCAGTTTTCAGCAGAGAGACCCCTC
 CATGAGACTCCAGGGATCACGGGTACAGAGGACTGTGGGCAAGCGGTGAACGGCTCTGTGGATCTCTCCA
 GACCCACAAGCATTCCAGAGACTACAAATGACGACATCCCAACCTTTGACACTAATGGGACCACTGACCC
 CTCTGCAGCTACAGAGAAAAACCCCTCAAGCCTCCCCAGTCGATGTCTTGAGACCTTCAGACTCTGAG
 ACTCCAGGTCCTCCCTACCACTTCCCTGACTTGGGGCCAGTTTGATTCCAAGACTACTTGGCCTAGTC
 GGCATTTTGAGGCGCTGGTTCAAGAGCTGGCCAGACTGGATCCCTCTTTGAGCCGTAAGTCTTGGCCCA
 GCCCGGTCCAGAGCCACCGCAGGCGCTGCTGGATGGGCTTTTCTGTGCAAGAGATCCGAAGTGCATG
 AGGCCAGCCCTTGAGGAGATGGGAGAGAAGGCTGCTGGCGCATCGGAGGAAGGTCTTGTGGACACCACC
 TCACGCAGGACCTGCAGACTTCCCAAGAGGCATCAAGGTCTGAAAACCTTACCCCGACCTGACCAATC
 AAGTGGCCAGGAATCCCAAGAGAAACAGCACCCAGGCCAAGAAAGTGGAAGTACGCCCGCTCCTCCAA
 AAGATGCTGCAGGATCTTACGCTGAGCAGGAGCGACTGCGGGGGACCGCCGAGACTGGACCAACGCA
 ACGGAGCTCTAGAGGCTGCTGTGAGCCAGGCTGTACACCCCGGAGCTGGAACGGTTCGCCGGTTCAT
 GACTGATCTAGAGCGTGTGCTTGGTCTGCTGCTGCTAGGCAGTCGCTGGTCCGTGTAACCTCGCC
 TTGGCTAGGGCGGGCTCAAACAGCGACCTGATGAGAGGGCTCTGCTGTCAGCGACTCCAACCTCTGC
 AGCGACAGCAAGAAGAAGCTAAGGAGCTGAAGGAGCACGTGGCTCGCGGGAGCAAAACCTGCGTCAGGT
 GTTGGAGCGGGAGCTGCCCGCAGAGCATCTGCGCTCCTATTGTGTGCTGCTGGCCTCCAAGGCCAGGATC
 CTGTACAGCAGCGCAGCCTGGACGATCGAATCCGGTTCCTTAAGGACCACTGGACACTATCTGGAGCG
 ACCTCAGCCATCATCCCTTTCTCCAGACTGACCTGGGCCCCAGCAATCCGTCCTCTAAACAAACAACC
 TTTTCTTGCTACCTTATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

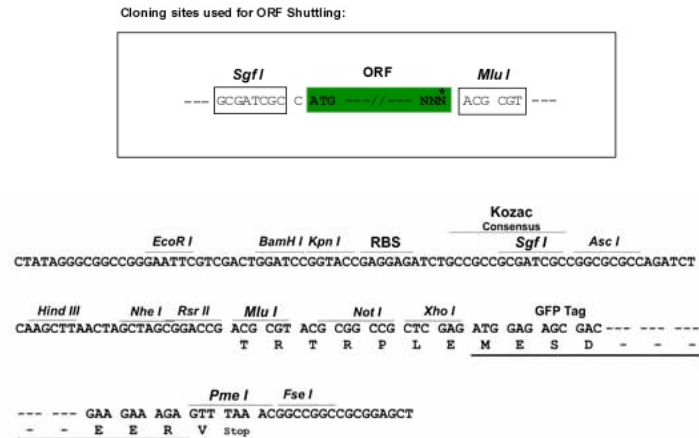
Protein Sequence: >MG215646 representing NM_027917
 Red=Cloning site Green=Tags(s)

```
MEALGTGRDRTSQASATESLDLRRLLSTRADSAYSSFFSTASGDPETRTTPSPGTERLPYLDWDYVRVWGSQ
SPTSKDAVLSTTQRPVQAVAGHSDPRSPEVQSGPGLNRQDTPLLYALAAEAEATAHTAEPSPASRDA
YRQLQGAQRRVLRETSFQRKEFRMSLPGRLRPVPTLPTAHVRSASSSQELGEEEPARTAVPALAAAG
RGRLSSQQRQCCFSEPGKLHRVGWGGPTGEDLRKDYSTQELQRMHAKSKGLLETQSLSSTELNSGPAD
LGNAHRPAGRSQSVSGEVMGPCKGSERTVATVQAVPQRADIRRPLLHTKLSRSLTQKEVTGVCPEALQT
KPAGCGRRISSETSVSTPGPSLPEDDVFLREAKTPSPQDSQGLPTSTSYRQYENDLSKKAGQIAVSAERPL
HETPGITGTEDCGQAVNGSVDLSRPTSIPETTNDIPTFDTNGTTDPSAATEKKPLKPPVVDVLRPSDSE
TPGSPHHTSLTWGQFDSKTTWPSRHFEALVQELARLDPSLSRTLAAQPGPEPPQGLLDGLFPVEEIRSAM
RPAL EEMGEKAAGASEEGSCGHHLTQDLQTSQEASRSENSTPDPDQSSGQEFPEGNSTQAKKVELARLLQ
KMLQDLHAEQERLRGTAADWTQRNGALEAAVSQACTPRELERFRRFMTDLERVLGLLLLLGSRLVRVNL
LARAGSNSDPDERASLLQRLQLLQRQEEAKELKEHVARREQLRQVLERELPAEHLRSYCVLLASKARI
LSQQRSLDDRIRFLKDQLDTIWSDL SHHPLSPRLTWAPAIRPLNKQPFLATLI
```

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_027917
ORF Size:	2469 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_027917.3](#), [NP_082193.2](#)

RefSeq Size: 3301 bp

RefSeq ORF: 2472 bp

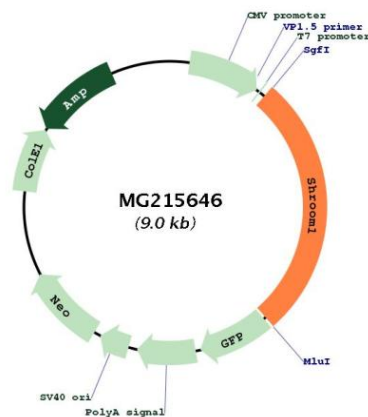
Locus ID: 71774

UniProt ID: [Q5SX79](#)

Cytogenetics: 11 B1.3

Gene Summary: May be involved in the assembly of microtubule arrays during cell elongation.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215646