

## Product datasheet for **MC227820**

### Shroom2 (NM\_001290685) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Shroom2 (NM_001290685) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Shroom2
Synonyms:	4832440C16; Apxl; C630003H05Rik; Shrm2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC227820 representing NM\_001290685  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGACACTTTCCATCCTCTGCTATCTTTCTATTTGGCTGGTTGACAGTGGGTCTTTGTGTTGGGATC  
 CCTGTGTGGGTCGTGGGTGGAAATCTGTACATGTCAAGATTTTCAGAGGACAGCCCTTATCTTTGCAGAAT  
 CGAGCGGGTGATGGACAACAACACCACTGTGAAGATGGTGCCATAAAAAATTGTGCACTCAGAAAGCCAG  
 CCCGAGAAGGAGAGTCGTGAGAGTCTCGCGTGCCAGCTGAGCTGCCCCACTGCCAGTGGGCTGGAGA  
 GGGACCAGATCAAGACTGAGTACATCAGAGCAATGCTACTCCCGCTTCTGTGTGTACACACGACAGGA  
 GGTGGAAGCTCCTCATAGAGCCCGCCCTCCAGAGCCCGGCCACCCAGCACGCCTGCACCTCCTGTCAGA  
 GATAGCTGTTCTCCCTCCCTCACTCAACTATGGGAAGGCCAAGGAGAAAACCATGGATGACTTGAAGT  
 CTGAAGAATTAGCCAGGGAGATTGTGGAAAGGACAAGTCTTTGGCTGACATCCTGGACCCAGTGTGAA  
 GATCAAACTACCATGGATCTGATGGAGGGAATTTTCCAAAGATGAGTACCTCCTAGAGGAAGCTCAG  
 CAGCGGAGAAAGCTGCTCCCAAAGTCCCTTACCCAGAGTACAGAGGACAAGAAACAGGACCCAGGTA  
 TGCCAGGGGTTGTGTCCTTGCCACCAATTCTACCTATTACAGCACATCAGCCCCAAAGCAGAGCTTCT  
 TATCAAGATGAAGGACCTGCAGGAGCCTGAAGATATTACAGAGGTGACTTGGATCATGACCTTTCTGTT  
 AAGAAGCAAGAGCTCATTGACAGTATCAGCCGCAAGCTGCAGGTGCTCCGGGAAGCACGTGAGAGCCTGC  
 TGGAAGACATCCAAGCCAACAATGCTCTTGGGGATGAGGTGGAAGCCATTGTGAAAGATGCTGCAAGCC  
 CAATGAGTTTGACAAGTCCGGATGTTTATTGGAGACCTGGACAAAGTGGTGAACCTCCTGCTGTCAGT  
 TCAGGACGCTGGCCCGTGTGGAAAATGCCCTTAATAATTTAGATGACAATCCTTCTCCTGGAGATCGGC  
 AGTCACTGTTGGAGAAACAGAGAGTCTAACTCAGCAGCAGGAGATGCCAAGGACTTAAAGAGAACCT  
 GGACCGCGTGAGCGCATTGTGTTTCGACATCCTGGCTACCTACCTCAGCGAGGAGAACCTGGCTGACTAT  
 GAGCACTTCGTGAAGATGAAGTCAGCTCTCATATTGAGCAGCGAGAGCTGGAAGATAAAATCCACCTGG  
 GTGAAGAGCAGCTCAAGTGTGTTGTTGACAGCCTACAGCCTGAGAGAAGCAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001290685
- Insert Size:** 1386 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001290685.1](#), [NP\\_001277614.1](#)

**RefSeq Size:** 4826 bp

**RefSeq ORF:** 1386 bp

**Locus ID:** 110380

**UniProt ID:** [A2ALU4](#)

**Cytogenetics:** X 68.46 cM

**Gene Summary:** May be involved in endothelial cell morphology changes during cell spreading. In the retinal pigment epithelium, may regulate the biogenesis of melanosomes and promote their association with the apical cell surface by inducing gamma-tubulin redistribution.  
[UniProtKB/Swiss-Prot Function]