

## Product datasheet for MC229602

### Shroom2 (NM\_001290684) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Shroom2 (NM\_001290684) 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  
**Fully Sequenced ORF:** >MC229602 representing NM\_001290684  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGGCGCCGAGCCCGTGCACGGCCCGAGCGCCTGGCCGAAGCTGAGGCGCCGGCGACCGACGGCG  
 TCCGCCTGGTGGAGGTGCAGCTGAGCGCGCCGCCCTTGGGGCTTACCTTGAAGGGCGCCGCGAGCA  
 TGGCGAGCCTCTGGTCATCACCAAGATTGAAGAAGGAAGCAAAGCTGCAGCAGTGGACAAGCTACTTGCT  
 GGAGATGAGATAGTGGCCATTAATGATGTGAGTCTCTCAGGGTTCAGACAAGAAGCAATTTGCCTGGTGA  
 AAGGCTCCCAAGACCCTGAAGCTTGTGGTCAAAGGAAAAGTATCCAAGTTGGAGGCCCACTCCTG  
 GCACGCTACCAAGTACTTTGATGTCCACCTGAGCCAGCAGCCTCACTGTTTCTGAACACCAGCGGTTCC  
 CCTTCTGGAAGAGCCAGCACCAGGCTAGTTCTTCTCTCATGATTTATCTGGCTCATGGGAGCATAACA  
 GCCTACAGCGCACTTCTGACCACTTCCAGCTCCATGGGCAGCATAGACAGCCTCGACCACAGCTCCCACT  
 CTACCCATCTGGACACCTCTCATCTGCCAAGTCCAATAGCAGCATTGACCACCTGGGAGGCCACAGCAAG  
 CGAGACTCAGCTTACGGCTCCTTTCCACATGCTCCAGCACCCCTGACCACACCTTGCCCAAGGCTGATG  
 CCTTTCCACTGAGAATTTCTATAAAGTTGGCCTTTGGGAGGCCCTCAGACCAGCAGCAGCCGACA  
 AAGCCAGTCTACAGGTGATCCTCAGGGACTGCAGGACAGGCCATCATGTTTCATACCTAGGTTCTCTGGT  
 AACAGTAGTAAAAGTCCAAGGCCGAGGATAATGTTGAACCCAAAATAGCCACTCATGGGAGATCCAATT  
 TTGGGCTGTGTGGTATGTTCTGACAAGAAAAAGCCCTTCTCCCCACCTCTTGGACTTCTTTTGGC  
 CAGTGATAGCTTTTCTGTGGCAGCCAGGGGCCATGAAAAAGCCCGGGGCCCTCCATTCTCAGACTTGGCC  
 AGTATGCAGCACTTATCACCTGCCCATGTGCAACCCCGGGGGACCATAGAATGAAACTACAGATC  
 GTCAGTGAAGCTCACACACCTAAGCAGTGGAAAAGAAAATAGGAAATGTGGGTTACCAGTCAGAAGGCCA  
 CCTGGATTGCCGTTGGCTATGCTCTGATGATAGAGCAGGTAGGCCCTCAGGGCTCCGGGAGGCTCCAG  
 TTCTCCGATGTGCACTTTCTGAAGTCTTACCACGGGAGCCAGCACCAACAGCAGTGCAGTGACGAGACCC  
 CAAGGGCCCCCTCATACCAAGGGAAGTCTTCAATAAAGTCTGCTGGTGGCGGTCTGCAAGAGCCTCTGA  
 ACCATCTCAGGATGACAACCCTACTCAGGTGAGGTGGCCTGGTTCTGCTCACCAGAGCTAGATGACAGA  
 GGGCGGAGCCACTATTTTCTGGTCCCTCAGGCAGCCTGTACAGGGGAGTGCCAGGTTGTGATACCC



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GAGGTGACTATTGGCATTGAGATACAACCTCTGTGGACCTTGAATATCCTCTCTTACGCCAGTAGGACA  
 GAGGACCTACCTACAGCAGCATGAGGAGACTCCGGCCTCTCATGAAAAAGAGGGGTATCACCAGCTAAAT  
 GCAGGGATTGAAGGCTGCTGCTCTGGAATCCAAGAGCCTCTAGAGCCAGCCGACTGTGAGAACTGGTC  
 TGCAGTGTCTAGCAATGACTTCAAATAGTGGATGGAGAGAGTGGGAGAATTTCTCGTCAGAGGACACC  
 CATGCTGCATTCTCTGACCCAAGATGGTACATGGAGACCCGGGAACAGCAAGGATTGTGGAATGATAAG  
 CCACCACTGTTTGTATGCCAGGTGGTAAACCCACACGGAGGAGTGACCGTTTTGCCACAACACTGAGGA  
 ATGAGATCCAAAATGCGTAGAGCAAAGCTGCAGAAGAGCAAAAAGTACAGTGACACTGCTGGAGACAGTGA  
 AGCTGAAGATTGTGCTGGAGACTGGAGAGCTGATGTGGGGCTGTCCAGAAAGTTCTTCCCCAGCACC  
 TATAAAGAGCACCTGAAGGAGGCCAGACACGTGTTCTGAAGGCCACCTTTTCCAACGCCGAGATTTAG  
 ATCCCACCCAGCAGATCAGTATTCAGGACCATCAGAACACAGGACTTTTGACCACAGTGCCCTCATCTTC  
 TTTATCTCTTTCCCTGGGGAGCCAGACTCTGCCCCACGTTCTGTGAGACAGGTCTGGCCAAGGCACCC  
 TCTTCTGGAGTTGGTGTACCCACGTTCTTGAATTGGAGGCCGAAACGGTTCACAGCAGAGCAGAAAAC  
 TAAAGTCTATTCTGAGCCAGAGAAAATAAATGAAGTGGGGCTCTCAGGGGACCACCGTCTCATCTAC  
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 TCTCTTCTCCAGAAGGCAGGCCATAGGCAAGTTCAGTGTGGGCTCCCTAGAGAGAAGGCTGAGAGGCCAC  
 AGACAGGGCACCATGAATGTGAGAGTACAGAGCCCTGGTTCAGAAAGAGTCACTGGCCACCTCCTGCGG  
 AGAGATCCTCAGTGATAGAAAAGTAGAAAAGGCCCTCAGAGAAAATTGAACCCACCCAGAAGGCTTGGAAAC  
 TTCGAGAAATCAAGCATCTTGAAGGAACAGAAAGAACTCTGGAAGCCAGGAGTTCTGGACGATACC  
 ATTCAGCAGATGATATTCTGGATGCTGGTCTAGATCAGCAGCAGAGGCCACAGTACATTCATGAGCGGTC  
 TCGTTTCATCACCGTCCACAGATCACTACTCACAGGAAGTGCTGTTGAACCAAACAGGCAGGCAGAGGAC  
 TCTGGTGACCACAAGAAGCAATTCTGTACTACTACAAGCTGAGGAGGGATGCTCTGCTCCAAGTGCCC  
 AGCCGCAAGACAGCCAGCATGTGAATGAAGACACAACCTTCCCTCAACCAGAAACCCAGCTCTCTCCAA  
 GTGTCAACACCTACAGACGTGAGCCATGGAAACTTCTCGCTCCCTTCGCTCAGTTTGCCCCACAGAAG  
 CTGACAGATAAACTCCCTGCTTATCCATGAAGACAACCTCAGCAAGAATCGAGCGGGTGATGGACAACA  
 ACACCACTGTGAAGATGGTGCCATAAAAATTGTGCACTCAGAAAAGCCAGCCCGAGAAGGAGAGTGTCA  
 GAGTCTCGCGTGCCAGCTGAGCTGCCCCACTGCCAGTGGGCTGGAGAGGGACCAGATCAAGACACTG  
 AGTACATCAGAGCAATGCTACTCCCGTCTGTGTGTACACACGACAGGAGGTGGAAGCTCCTCATAGAG  
 CCCGCCCTCCAGAGCCCCGGCCACCCAGCACGCTGCACCTCCTGTGAGAGATAGCTGTTCTCCCTCC  
 CTCACTCAACTATGGGAAGGCCAAGGAGAAAACCATGGATGACTTGAAGTCTGAAGAATTAGCCAGGGAG  
 ATGTGGGAAAGGACAAGTCTTTGGCTGACATCCTGGACCCAGTGTGAAGATCAAACTACCATGGATC  
 TGATGGAGGGAATTTTTCCAAAGATGAGTACCTCCTAGAGGAAGCTCAGCAGCGGAGAAAGCTGCTCCC  
 CAAAGTCCCTTACCCAGAGTACAGAGGACAAGAAACAGGACCCAGGTATGCCAGGGGTTGTGTCTTG  
 GCCACCAATTCTACCTATTACAGCACATCAGCCCCAAAGCAGAGCTTCTTATCAAGATGAAGGACCTGC  
 AGGAGCCTGAAGAGTATTCAGCAGGTGACTTGGATCATGACCTTTCTGTTAAGAAGCAAGAGCTCATTGA  
 CAGTATCAGCCGCAAGCTGCAGGTGCTCCGGGAAGCACGTGAGAGCCTGCTGGAAGACATCCAAGCCAAC  
 AATGCTCTTGGGATGAGGTGGAAGCCATTGTGAAAGATGTCTGCAAGCCCAATGAGTTTGACAAGTTCC  
 GGATGTTCAATGGAGACCTGGACAAAGTGGTGAACCTCCTGCTGTCACTGTCAGGACGCCTGGCCCGTGT  
 GGAAAAATGCCCTTAATAATTTAGATGACAATCCTTCTCCTGGAGATCGGCAGTCACTGTTGGAGAAACAG  
 AGAGTCTAACTCAGCAGCACGAGGATGCCAAGGAGCTTAAAGAGAACCTGGACCCGCTGAGCGCATTG  
 TGTTTCGACATCCTGGCTACCTACCTCAGCGAGGAGAACTGGCTGACTATGAGCACTTCGTGAAGATGAA  
 GTCAGCTCTCATATTGAGCAGCGAGAGCTGGAAGATAAAATCCACCTGGGTGAAGAGCAGCTCAAGTGT  
 TTGTTTGACAGCCTACAGCCTGAGAGAAGCAAA TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001290684  
**Insert Size:** 4446 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001290684.1</a></u> , <u><a href="#">NP_001277613.1</a></u>
<b>RefSeq Size:</b>	7501 bp
<b>RefSeq ORF:</b>	4446 bp
<b>Locus ID:</b>	110380
<b>UniProt ID:</b>	<u><a href="#">A2ALU4</a></u>
<b>Cytogenetics:</b>	X 68.46 cM
<b>Gene Summary:</b>	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]