

## Product datasheet for MC224560

### Shroom2 (NM\_172441) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Shroom2 (NM\_172441) 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:** >MC224560 representing NM\_172441  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAGGGCGCCGAGCCCGTGCACGGCCGAGCGCCTGGCCGAAGCTGAGGCGCCGGCGACCGACGGCG  
 TCCGCCTGGTGGAGGTGCAGCTGAGCGGCGCCGCCCTTGGGGCTTACCTTGAAGGGCGCCGCGAGCA  
 TGGCGAGCCTCTGGTCATCACCAGATTGAAGAAGGAAGCAAAGCTGCAGCAGTGGACAAGCTACTTGCT  
 GGAGATGAGATAGTGGCCATTAATGATGTGAGTCTCTCAGGGTTCAGACAAGAAGCAATTTGCCTGGTGA  
 AAGGCTCCCAAGACCCTGAAGCTTGTGGTCAAAGGAAAAGTATCCAAGTTGGAGGCCCACTCCTG  
 GCACGCTACCAAGTACTTTGATGTCCACCCTGAGCCAGCAGCCTCACTGTTTCTGAACACCAGCGGTTCC  
 CCTTCTGGAAGAGCCAGCACCAGGCTAGTTCTTCTCCTCATGATTTATCTGGCTCATGGGAGCATAACA  
 GCCTACAGCGCACTTCTGACCACTTCCAGCTCCATGGGCAGCATAGACAGCCTCGACCACAGCTCCCACT  
 CTACCCATCTGGACACCTCTCATCTGCCAAGTCCAATAGCAGCATTGACCACCTGGGAGGCCACAGCAAG  
 CGAGACTCAGCTTACGGCTCCTTTCCACATGCTCCAGCACCCCTGACCACACCTTGCCCAAGGCTGATG  
 CCTTTCCACTGAGAACATTTCTATAAAGTTGGCCTTTGGGAGGCCCTCAGACCAGCAGCAGCCGACA  
 AAGCCAGTCTACAGGTGATCCTCAGGGACTGCAGGACAGGCCATCATGTTTCATACCTAGGTTTCTGTT  
 AACAGTAGTAAAAGTCCAAGGCCGAGGATAATGTTGAACCCAAAATAGCCACTCATGGGAGATCCAATT  
 TTGGGCTGTGTGGTATGTTCTGACAAGAAAAAGCCCTTCTCCCCACCTCTTGGACTTCTTTTGGC  
 CAGTGATAGCTTTTCTGTGGCAGCCAGGGGCCATGAAAAAGCCCGGGGCCCTCCATTCTCAGACTTGGCC  
 AGTATGCAGCACTTATCACCCTGCCCCATGTGCAACCCCGGGGGACCATAGAATGAAACTACAGATC  
 GTCAGTGAAGCTCACACACCTAAGCAGTGGAAAAGAAAATAGGAAATGTGGGTTACCAGTCAGAAGGCCA  
 CCTGGATTGCCGTTGGCTATGCTCTGATGATAGAGCAGGTAGGCCCTCAGGGCTCCGGGAGGCTCCAG  
 TTCTCCGATGTGCACTTTCTGAAGTCTTACCACGGGAGCCAGCACCAACAGCAGTGCAGTGACGAGACCC  
 CAAGGGCCCCCTCATACCAAGGGAAGTCTTCAATAAATCCTGGTGGCGGTCTGCAAGAGCCTCCTGA  
 ACCATCTCAGGATGACAACCCTACTCAGGTGAGGTGGCCTGGTTCTGCTCACCAGAGCTAGATGACAGA  
 GGGCGGAGCCACTATTTTCTGGTCCCTCAGGCAGCCTGTACAGGGGAGTGCCAGGTTGTGATACCC



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GAGGTGACTATTGGCATTGAGATACAACCTCTGTGGACCTTGAATATCCTCTCTTACGCCAGTAGGACA  
 GAGGACCTACCTACAGCAGCATGAGGAGACTCCGGCCTCTCATGAAAAAGAGGGGTATCACCAGCTAAAT  
 GCAGGGATTGAAGGCTGCTGCTCTGGAATCCAAGAGCCTCTAGAGCCAGCCGACTGTGAGAACTGGTC  
 TGCAGTGTCTAGCAATGACTTCAAATAGTGGATGGAGAGAGTGGGAGAATTTCTCGTCAGAGGACACC  
 CATGCTGCATTCTGACCCAAGATGGTACATGGAGACCCGGGAACAGCAAGGATTGTGGAATGATAAG  
 CCACCACTGTTTGTATGCCAGGTGGGTAACCCACACGGAGGAGTGACCGTTTTGCCACAACACTGAGGA  
 ATGAGATCCAAATGCGTAGAGCAAAGCTGCAGAAGAGCAAAAGTACAGTGACACTAGCTGGAGACAGTGA  
 AGCTGAAGATTGTGCTGGAGACTGGAGAGCTGATGTGGGGCTGTCCAGAAAGTTCTTCCCCAGCACC  
 TATAAAGAGCACCTGAAGGAGGCCAGACACGTGTTCTGAAGGCCACCTTTTCCAACGCCGAGATTAG  
 ATCCACCCCAGCAGATCAGTATTCAGGACCATCAGAACACAGGACTTTTGACCACAGTGCCCTATCTTC  
 TTTATCTCTTTCCCTGGGGAGCCAGACTCTGCCCCACGTTCTGTGAGACAGGTCTGGCCAAGGCACCC  
 TCTTCTGGAGTTGGTGTACCCACGTTCTTGAATTGGAGGCCGAAACGGTTCACAGCAGAGCAGAAAAC  
 TAAAGTCTATTCTGAGCCAGAGAAAATAAATGAAGTGGGGCTCTCAGGGGACCACCGTCTCATCTAC  
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 TCTCTTCCAGAAAGCCAGGCCATAGGCAAGTTCAGTGTGGGCTCCCTAGAGAGAAGGCTGAGAGGCCAC  
 AGACAGGGCACCATGAATGTGAGAGTACAGAGCCCTGGTTCAGAAAGAGTCACTGGCCACCTCCTGCGG  
 AGAGATCCTCAGTGATAGAAAAGTAGAAAAGGCCCTCAGAGAAAATTGAACCCACCCAGAAGGCTTGGAAAC  
 TTCGAGAAATCAAGCATCTTGAAGGAACAGAAAGAACTCTGGAAGCCAGGAGTTCTGGACGATACC  
 ATTCAGCAGATGATATTCTGGATGCTGGTCTAGATCAGCAGCAGAGGCCACAGTACATTCATGAGCGGTC  
 TCGTTCATCACCGTCCACAGATCACTACTCACAGGAAGTGCTGTTGAACCAAACAGGCAGGCAGAGGAC  
 TCTGGTGACCACAAGAAGCAATCTCTGTACTACAAGCTGAGGAGGGATGCTCTGCTCAAGCTCCT  
 CTGTGCTCAGCAGTGCCAGCCGCAAGACAGCCAGCATGTGAATGAAGACACAACCTTCCCTCAACCAGA  
 AACCCAGCTCTTCCAAGTGTCAACACCTACAGACGTCAGCCATGGAAACTTCTCGCTCCCTTCGCTT  
 CAGTTTGCCCCACAGAAGCTGACAGATAAACCTCCCTGCTTATCCATGAAGACAACCTCAGCAAGAAATCG  
 AGCGGGTGATGGACAACACCACTGTGAAGATGGTGCCATAAAAAATTGTGCACTCAGAAAGCCAGCC  
 CGAGAAGGAGAGTCGTCAGAGTCTCGCGTGCCAGCTGAGCTGCCCCACTGCCAGTGGGCTGGAGAGG  
 GACCAGATCAAGACACTGAGTACATCAGAGCAATGCTACTCCCGTCTGTGTGTACACACGACAGGAGG  
 TGGAAAGTCTCATAGAGCCCGCCTCCAGAGCCCGGCCACCCAGCAGCCTGCACCTCCTGTCAGAGA  
 TAGCTGTTCTCCCTCCCTCACTCAACTATGGGAAGGCCAAGGAGAAAACCATGGATGACTTGAAGTCT  
 GAAGAATTAGCCAGGGAGATTGTGGAAAGGACAAGTCTTTGGCTGACATCCTGGACCCAGTGTGAAGA  
 TCAAACTACCATGGATCTGATGGAGGGAATTTTCCAAAGATGAGTACCTCCTAGAGGAAGCTCAGCA  
 GCGGAGAAAGTCTCCCAAAGTCCCCTACCCAGAGTACAGAGGACAAGAAACAGGACCCAGGTATG  
 CCAGGGGTTGTGCTTGGCCACCAATTCTACCTATTACAGCACATCAGCCCCAAAGCAGAGCTTCTTA  
 TCAAGATGAAGGACCTGCAGGAGCCTGAAGAGTATTCAGCAGGTGACTTGGATCATGACCTTTCTGTTAA  
 GAAGCAAGAGCTCATTGACAGTATCAGCCGCAAGCTGCAGGTGCTCCGGGAAGCACGTGAGAGCCTGCTG  
 GAAGACATCCAAGCCAACAATGCTCTTGGGGATGAGGTGGAAGCCATTGTGAAAGATGTCTGCAAGCCCA  
 ATGAGTTTGACAAGTCCGGATGTTTATGGAGACCTGGACAAAGTGGTGAACCTCCTGCTGCTACTGTC  
 AGGACGCTGGCCGTGTGGAAAATGCCCTTAATAATTTAGATGACAATCCTTCTCTGGAGATCGGCAG  
 TCACTGTTGGAGAAACAGAGAGTCTAACTCAGCAGCAGGAGATGCCAAGGAGCTTAAAGAGAACCTGG  
 ACCGCCGTGAGCGCATTGTGTTGACATCTGGCTACCTACCTCAGCAGGAGAACTGGCTGACTATGA  
 GCACTTGTGAAGATGAAGTCACTCTCATATTGAGCAGCAGAGCTGGAAGATAAAATCCACCTGGGT  
 GAAGAGCAGCTCAAGTGTGTTGTTGACAGCCTACAGCCTGAGAGAAGCAAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_172441  
**Insert Size:** 4464 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>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_172441.3</a></u> , <u><a href="#">NP_766029.2</a></u>
<b>RefSeq Size:</b>	7519 bp
<b>RefSeq ORF:</b>	4464 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]