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Product datasheet for MC224942

Shroom3 (NM_001077596) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shroom3 (NM_001077596) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Shroom3
Synonyms:	AL022960; D5Ertd287e; Shrm; Shrm3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC224942 representing NM_001077596
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGCAGATATCTCAGGGCACAATGGGCCCTCCTTGGCACCAGAGCTACCATTCCAGCTCTTCGACCA
GTGACCTCTCCAACTACGACCATGCTTATCTGAGGCGGAGCCCTGACCAGTGCAGCTCCCAGGGGAGCAT
GGAAAGCCTGGAGCCCAGTGGCGGATACCCACCCTGCCATCTCCTTTCTCCTGCCAAGTCCACGAGCAGC
ATCGACCAGCTAGGCCACCTTCATAACAAAAGGGACTCCGCATATAGCTCCTTCTCCACCAGTTCGAGCA
TCTTCGAGTACCCACCCCCTGGTGGCTCTGCCCGAGAACGTTCGGGTTCCATGGACGTGATTTCTGCCCG
GGGTGGCCTCCTAGAAGGGATGAGGCAGGCAGACATCCGCTACGTCAAGACGGTCTATGATACCCGGAGA
GGAGTATCTTCAGAGTATGAGGTGAACCCTTCAGCCTTGCTCCTTCAAGGTAGGGATGCCCATGCCTCAG
CCGACAGTCAGGGCTGTGCTAAATGGCACAGCATTCCTCGGGGCAAGGGAACGCCTTCCCCGTCTTGGAG
CCAGCAGTGTTCTGGTTCCCTGGAGACTGCTACTGACAACCTGCCCCAGAAGGCAGGCGCACCCCTGCCC
CCCACCCGCAGTGATAGCTATGCAGCCTTCCGCCATCGCGAGCGTCCCAGCTCCTGGTCCAGCCTTGATC
AGAAAAGGTTCTGCCGGCCTCAGACAAACTCTTCAGGCTCCCAGAAAACCCCATTCGCTGAGGACCAGCT
GCATACAGTCCCAGAGAGGAGTCCAGAGAACAGCCCCCCAGTGAAATCTAAGCATAATTATACCCAGAAG
GCGCAGCCTGGCCAACCTCTGCTGCCCACTGGCATCTATCCGGTACCTTCTCCGGAGCCTCACTTTGCCC
AGGTGCCCCAGCCCTCTGTGAGTAGTAATGGCACCGTCTACCCTGCGCTAGTCAAAGAGAGTGGATACAC
AGCTGCTCAGGGAACCTGTAACAAGATGGCTACCTTAGATGAGAACGGGAATCAAAATGAAGCTAGCAGG
CCTGGGTTTGCCTTCTGTCAGCCCCTAGAACACAACTCGGTGACTCCGGTGGAGAAAAGGCCAGAACCCA
CGGCCAAATACATCTACAAAGTCCATTTTTCTTCAGTGCCTGAAAATGAAGACTCCTCCCTAAAGAGGCA
CATCACACCTCCCCACGGCCATAGTCCATATCCCAGCGAGAGAAAGAACATCCACGGTGGCAGCAGAGCG
TGTTCCAATCACCACAGTCTCTCGTCCCCCCAGGCCCAGGCCCTGCACGTGGGTGATGACAGGAGGCCTT
CCAGGCTCTCTCAGCCCTGGGAGGGTGACTTTCAGGAAGATCACAATGCCAACCTCAGGCAGAAAGTGGA
GAGGGAGGGCCAAGGCCAGGGCCTGTCGGGCAACTCTGGCAGGACCAGATCGGCCTTCTCATCTCTGCAG
AATATTCCAGAGAGTCTGAGAAGACAAAGCAACGTGGAGCTTGGAGAAGCCCAGGAGGTTCACCCCGGGG

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GCAGGTCCAAGGTGGAGGACCCTGGAAGGAAAGCAGGGGCTTCAGACATCAGGGGCTACCTGGACAGATC
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GAGGAGTCCCCGGCCCCAGCGCTGCCACAGACATCCGGTGCGAGCCAGCGGCGGCTCAGCTCCAGCAGCT
CCGCCGCCCCGCAGTACAGGAAGCCCCATTGCTCCGTGCTGGAGAAGGTTTCTAGAATAGAGGAACGAGA
GCAGGGGCGCCACAGACCCCTGAGCGTGGGCAGCTCTGCATACGGCCCCGGCTACAGGCCTGGGAGGACC
GGCCCGACCCCCAGTACTTCCAGCAGTGACCTCGACGATCCAAAAGCCGGCAGCGTCCATTTCTCGGAGT
CCACTGAACACCTGCGCAATGGGGAGCAGAACCCCCCAAACGGGGAGGCTAAGCAGGAAGAGGCTTCCCG
GCCCCAGTGCAGCCATTTGATCCGGAGGGCCCCTGCGGACGGCCGTGGACCTCCTGCCCGAGGCGGCGAG
CCCTCAAGGCCGGAGGCCCGCCTGCTCCGCAGCCAGAGCACCTTTCAGCTCTACAGTGAGGCGGAGAGGG
AAGCCTCGTGGTCAGAGGACAGGCCCGGTACCCCTGAGTCGCCCCTGCTCGATGCGCCTTTCAGCCGCGC
CTACAGAAACAGCATCAAGGATGCCCAGTCCCGCGTCCTGGGGGCCACGTCGTTTCGTCGCCGAGACCTG
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CGCAGCCGCGCTTCTCGGAGAGCACCGTGGCCGACCGGCGCCGCATCTTCGAGCGCGACGGCAAGGCCTG
CTCCACGCTCAGCCTGTCGGGCCCCGAGCTCAAGCAGTTCCAGCAGAGCGCCCTGGCCGACTACATCCAG
CGTAAGACGGGCAAGCGGCCCACAGGAGCCGCCTGCACACCGGAGGCCGGGCTGCGCGAGCGCGCACAGA
GCGCCTACCTCCAGGCCGGCCCCGCGGCGCCCGATGGCCCCGGCCTGGCCTCTGCCTGTAGCCTGAGCTC
CCTGCGAGAGCCCGAGGCGCTGCCCCGCAAGGAGCACACTCATCCGTCGGCCGCGGACGGCCCGCAGGCG
CCCCGTGATCGCAGCAGCTCCTTCGCCAGCGGACGCCTAGTCGGGGAGCGACGTCGCTGGGACCCTCAGG
TCCCCAGGCAGCTGCTCAGCGGAGCGAACTGCGAACCGAGGGGCGTCCAGAGGATGGACGGGGCCCCGGG
CGGGCCGCCTTCCTGGGGCATGGTGGCCGGGAAGGCCGGGAAGTCCAAGTCAGCCGAGGATCTGCTGGAG
CGCTCCGACACACTGGCGGTCCCTGTGCATGTGAGGTCCAGGTCGTCTCCCACCTCCGACAAGAAAGGTC
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ACCTAGGTCTCTCAGCTGCTCAGACAAAGGCCAGAATGAGCTGGCATTGCCCCTGCACCACCCTACGCCC
TGCTGGAACGGCTCAGGCTGCAAAGCCACTGTGGCTTCCTCAGCTCCTCCCGAATCTTCTGGAGCCGCGG
ATCATCTGAAGCAACGTAGAGCGCCTGGTCCTAGGCCACTCTCAGCAGGAATGCACGGCCACTTCCCAGA
CGCCAGAGCTGCCTCACTCAGCTCCCCTCTGCCATCACCTGTCCCCTCCAGTTACCGGTCACAGCTTGCC
ATGGATCAGCAGACTGGGCAACAGCCTCCCTCATCCCCTGCCTCTGCAGTGACCCAGCCTACCAGTCCAA
GAAGCCCTGAGCTCAGCAGCCCAGCATATGGGCTAGGGGAGGGGATGTGGAAGAGGACATCCCTGCCTCA
GCGACCCCCTCCCCCTTGGGTGAAATGGGCCCACGCGGTCAGAGAGGACGGCCTTGCTGAGGACACCTTG
GCGCCTGAGTTTGCGAACCTGAAGCACTATAGAAACCAGCCGAGTCGTCCGAGTTCCTGCAGCACTTCTG
ACCCAGACACTCCAGGAAGGATCTCGCTCCGAATATCGGAGTCAGCCCTTCAACCTTCCCCACCGCCCCG
GGGGGACTATGATGACGAAGTGTTCATGAAGGACTTGCACCCCAAGGTTACTTCAAGCCCCACATTTGAA
GCTCTTCCCCCACCCCCGCCACCTTCGCCACCGAGCGAGGAACCTCTAGTGAATGGCACAGATGACTTTC
CTCCGCCTCCTCCTCCCCAAGCCCTGTGTGAGGTACTGCTGGATGGTGAGGCATCCACGGAAGCTGGCAG
CGGCCCCTGCAGAATTCCCAGGGTGATGGTCACAAGGGAAGGGCACGTGCCTGGGGCAGCCCATTCCGAA
GGTAGTCAGATAATGACTGCCACACCACCCCAAACCTCGGCCAAAGGTTCAGAAGCCGAGTCCAACACGC
CTTCCAGCGCGAGCGCCCAGCCTCAGCTCAACGGTTCTCCTGGCAAGCAGCTCTGTCCCAGCCAGACCCG
AAACCTCACTTATGAACCTGTCGAGAGAACTCAGGATCTAGGAAAGAAAACTCACGCCGAGCCTCAGAAG
ACCTCAGAAGATATCCGGACAGAGGCTCTAGCCAAGGAAATTGTCCACCAAGACAAGTCTCTGGCAGACA
TTTTAGATCCTGACTCCAGGATGAAGACAACGATGGACCTGATGGAGGGTTTATTCCCTGGAGACGCCAG
TGTGCTGATGGATAGTGGCGCAAAGAGGAAAGCCTTAGACATCACCGCCAGGCGTGCGGGATGTGAAGCC
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TGTCAATGAGAAAAAGGCTGAGCTTATCGGAAGCCTTACCCACAAGCTGGAGAGCCTCCAGGAAGCCAAG
GGGAGCCTGCTCACGGACATCAAGCTGAACAATGCCCTGGGAGAGGAGGTGGAGGCTCTGATCAGTGAGC
TCTGCAAACCCAACGAGTTTGACAAGTACAAGATGTTCATAGGGGACCTGGACAAGGTGGTCAACCTGCT
GCTGTCCCTGTCTGGACGCCTGGCCCGCGTGGAGAACGTCCTCAGAGGCCTTGGTGAAGACGCCAGCAAA
GAGGAAAGGAGTTCTCTGAACGAGAAAAGGAAGGTTCTGGCTGGCCAGCATGAGGATGCACGGGAGCTCA
AGGAGAACCTGGACCGGAGGGAGCGCGTGGTGCTGGATATCCTGGCCAACTACCTGTCCGCCGAGCAGCT

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GCAGGACTACCAGCACTTCGTGAAGATGAAGTCCACACTCCTCATTGAGCAGCGGAAGCTGGATGACAAG
ATAAAGCTGGGCCAGGAGCAGGTCAGGTGCCTGCTGGAGTCGCTTCCCTCGGACTTCAGGCCCAAGGCAG
GGGCCATCTCCCTCCCTCCAGCCCTCACCGGCCATGGGACTCCTGGGGGGACATCTGTATTCGGTGGTGT
TTTCCCAACGTTGACCTCTCCTCTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001077596

Insert Size: 5418 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).

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_001077596.2, NP_001071064.1

RefSeq Size: 6886 bp

RefSeq ORF: 5418 bp

Locus ID: 27428

UniProt ID: Q9QXN0

Cytogenetics: 5 47.29 cM

Gene Summary: Controls cell shape changes in the neuroepithelium during neural tube closure. Induces apical constriction in epithelial cells by promoting the apical accumulation of F-actin and myosin II, and probably by bundling stress fibers. Induces apicobasal cell elongation by redistributing gamma-tubulin and directing the assembly of robust apicobasal microtubule arrays. [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) differs in the 5' UTR and the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. Variants 2 and 3 encode the same isoform (2).

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