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Product datasheet for MC225099

Shroom3 (NM_015756) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shroom3 (NM_015756) 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:

>MC225099 representing NM_015756
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGACTCCGGAGAACTTGGAGGAGCCTAGCGCCACGCCAAACCCCAGTAGGACCCCCACGGAGAGAT
TCGTTTATCTGGAAGCGCTCCTAGAGGGAGGGGCTCCCTGGGGCTTCACCCTGAAAGGTGGCCTGGAGCG
TGGAGAACCGTTAATCATTTCCAAGATTGAAGAAGGGGGCAAAGCCGACTCAGTGAGCTCCGGACTGCAA
GCTGGGGACGAAGTCATACACATCAATGAGGTGGCGCTGAGCAGTTCCAGGAGAGAGGCTGTCTCCCTAG
TGAAAGGGTCCTACAAGACCCTGCGGCTGGTGGTGCGCAGAGACGTGTGTGCGGCCCCGGGCCATGCTGA
TCCTGGTACCTCTAAGTCCCTCAGCTCAGAGCTGCTCACCTGCAGTCCCCAGCACCGGAAAGCAACATGG
TCAGGAGGGGTGAAGCTTCGGCTAAAGCAGAGGTGCAGTGAGCCTGCCACTCGCCCTCACTCGTGGCATA
CCACCAAATTTGGGGAGACACAGCCTGATGTCAGCATGATGCAGATATCTCAGGGCACAATGGGCCCTCC
TTGGCACCAGAGCTACCATTCCAGCTCTTCGACCAGTGACCTCTCCAACTACGACCATGCTTATCTGAGG
CGGAGCCCTGACCAGTGCAGCTCCCAGGGGAGCATGGAAAGCCTGGAGCCCAGTGGCGGATACCCACCCT
GCCATCTCCTTTCTCCTGCCAAGTCCACGAGCAGCATCGACCAGCTAGGCCACCTTCATAACAAAAGGGA
CTCCGCATATAGCTCCTTCTCCACCAGTTCGAGCATCTTCGAGTACCCACCCCCTGGTGGCTCTGCCCGA
GAACGTTCGGGTTCCATGGACGTGATTTCTGCCCGGGGTGGCCTCCTAGAAGGGATGAGGCAGGCAGACA
TCCGCTACGTCAAGACGGTCTATGATACCCGGAGAGGAGTATCTTCAGAGTATGAGGTGAACCCTTCAGC
CTTGCTCCTTCAAGGTAGGGATGCCCATGCCTCAGCCGACAGTCAGGGCTGTGCTAAATGGCACAGCATT
CCTCGGGGCAAGGGAACGCCTTCCCCGTCTTGGAGCCAGCAGTGTTCTGGTTCCCTGGAGACTGCTACTG
ACAACCTGCCCCAGAAGGCAGGCGCACCCCTGCCCCCCACCCGCAGTGATAGCTATGCAGCCTTCCGCCA
TCGCGAGCGTCCCAGCTCCTGGTCCAGCCTTGATCAGAAAAGGTTCTGCCGGCCTCAGACAAACTCTTCA
GGCTCCCAGAAAACCCCATTCGCTGAGGACCAGCTGCATACAGTCCCAGAGAGGAGTCCAGAGAACAGCC
CCCCAGTGAAATCTAAGCATAATTATACCCAGAAGGCGCAGCCTGGCCAACCTCTGCTGCCCACTGGCAT
CTATCCGGTACCTTCTCCGGAGCCTCACTTTGCCCAGGTGCCCCAGCCCTCTGTGAGTAGTAATGGCACC
GTCTACCCTGCGCTAGTCAAAGAGAGTGGATACACAGCTGCTCAGGGAACCTGTAACAAGATGGCTACCT

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TAGATGAGAACGGGAATCAAAATGAAGCTAGCAGGCCTGGGTTTGCCTTCTGTCAGCCCCTAGAACACAA
CTCGGTGACTCCGGTGGAGAAAAGGCCAGAACCCACGGCCAAATACATCTACAAAGTCCATTTTTCTTCA
GTGCCTGAAAATGAAGACTCCTCCCTAAAGAGGCACATCACACCTCCCCACGGCCATAGTCCATATCCCA
GCGAGAGAAAGAACATCCACGGTGGCAGCAGAGCGTGTTCCAATCACCACAGTCTCTCGTCCCCCCAGGC
CCAGGCCCTGCACGTGGGTGATGACAGGAGGCCTTCCAGGCTCTCTCAGCCCTGGGAGGGTGACTTTCAG
GAAGATCACAATGCCAACCTCAGGCAGAAAGTGGAGAGGGAGGGCCAAGGCCAGGGCCTGTCGGGCAACT
CTGGCAGGACCAGATCGGCCTTCTCATCTCTGCAGAATATTCCAGAGAGTCTGAGAAGACAAAGCAACGT
GGAGCTTGGAGAAGCCCAGGAGGTTCACCCCGGGGGCAGGTCCAAGGTGGAGGACCCTGGAAGGAAAGCA
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CCGTAGACTCCGTCCACAGTGCAGACTCCAGGTATGAGGAGTCCCCGGCCCCAGCGCTGCCACAGACATC
CGGTGCGAGCCAGCGGCGGCTCAGCTCCAGCAGCTCCGCCGCCCCGCAGTACAGGAAGCCCCATTGCTCC
GTGCTGGAGAAGGTTTCTAGAATAGAGGAACGAGAGCAGGGGCGCCACAGACCCCTGAGCGTGGGCAGCT
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CGGACGGCCGTGGACCTCCTGCCCGAGGCGGCGAGCCCTCAAGGCCGGAGGCCCGCCTGCTCCGCAGCCA
GAGCACCTTTCAGCTCTACAGTGAGGCGGAGAGGGAAGCCTCGTGGTCAGAGGACAGGCCCGGTACCCCT
GAGTCGCCCCTGCTCGATGCGCCTTTCAGCCGCGCCTACAGAAACAGCATCAAGGATGCCCAGTCCCGCG
TCCTGGGGGCCACGTCGTTTCGTCGCCGAGACCTGGAACCGGGCACCCCCGCCACCTCGAGGCCCTGGCG
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ACCCCTCGGGAGCGACACAGCGTGACCCCGGCCGCGCCCCAGGCTGCCCGCCGAGGCCCACGCCGGCGCC
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CGGCGCCGCATCTTCGAGCGCGACGGCAAGGCCTGCTCCACGCTCAGCCTGTCGGGCCCCGAGCTCAAGC
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CACACCGGAGGCCGGGCTGCGCGAGCGCGCACAGAGCGCCTACCTCCAGGCCGGCCCCGCGGCGCCCGAT
GGCCCCGGCCTGGCCTCTGCCTGTAGCCTGAGCTCCCTGCGAGAGCCCGAGGCGCTGCCCCGCAAGGAGC
ACACTCATCCGTCGGCCGCGGACGGCCCGCAGGCGCCCCGTGATCGCAGCAGCTCCTTCGCCAGCGGACG
CCTAGTCGGGGAGCGACGTCGCTGGGACCCTCAGGTCCCCAGGCAGCTGCTCAGCGGAGCGAACTGCGAA
CCGAGGGGCGTCCAGAGGATGGACGGGGCCCCGGGCGGGCCGCCTTCCTGGGGCATGGTGGCCGGGAAGG
CCGGGAAGTCCAAGTCAGCCGAGGATCTGCTGGAGCGCTCCGACACACTGGCGGTCCCTGTGCATGTGAG
GTCCAGGTCGTCTCCCACCTCCGACAAGAAAGGTCAGGATGTGCTCCTGAGGGAAGGCAGCAACTTTGGT
TTTGTAAAGGATCCATGCTGTTTGGCTGGCCCTGGACCTAGGTCTCTCAGCTGCTCAGACAAAGGCCAGA
ATGAGCTGGCATTGCCCCTGCACCACCCTACGCCCTGCTGGAACGGCTCAGGCTGCAAAGCCACTGTGGC
TTCCTCAGCTCCTCCCGAATCTTCTGGAGCCGCGGATCATCTGAAGCAACGTAGAGCGCCTGGTCCTAGG
CCACTCTCAGCAGGAATGCACGGCCACTTCCCAGACGCCAGAGCTGCCTCACTCAGCTCCCCTCTGCCAT
CACCTGTCCCCTCCAGTTACCGGTCACAGCTTGCCATGGATCAGCAGACTGGGCAACAGCCTCCCTCATC
CCCTGCCTCTGCAGTGACCCAGCCTACCAGTCCAAGAAGCCCTGAGCTCAGCAGCCCAGCATATGGGCTA
GGGGAGGGGATGTGGAAGAGGACATCCCTGCCTCAGCGACCCCCTCCCCCTTGGGTGAAATGGGCCCACG
CGGTCAGAGAGGACGGCCTTGCTGAGGACACCTTGGCGCCTGAGTTTGCGAACCTGAAGCACTATAGAAA
CCAGCCGAGTCGTCCGAGTTCCTGCAGCACTTCTGACCCAGACACTCCAGGAAGGATCTCGCTCCGAATA
TCGGAGTCAGCCCTTCAACCTTCCCCACCGCCCCGGGGGGACTATGATGACGAAGTGTTCATGAAGGACT
TGCACCCCAAGGTTACTTCAAGCCCCACATTTGAAGCTCTTCCCCCACCCCCGCCACCTTCGCCACCGAG
CGAGGAACCTCTAGTGAATGGCACAGATGACTTTCCTCCGCCTCCTCCTCCCCAAGCCCTGTGTGAGGTA
CTGCTGGATGGTGAGGCATCCACGGAAGCTGGCAGCGGCCCCTGCAGAATTCCCAGGGTGATGGTCACAA
GGGAAGGGCACGTGCCTGGGGCAGCCCATTCCGAAGGTAGTCAGATAATGACTGCCACACCACCCCAAAC
CTCGGCCAAAGGTTCAGAAGCCGAGTCCAACACGCCTTCCAGCGCGAGCGCCCAGCCTCAGCTCAACGGT
TCTCCTGGCAAGCAGCTCTGTCCCAGCCAGACCCGAAACCTCACTTATGAACCTGTCGAGAGAACTCAGG
ATCTAGGAAAGAAAACTCACGCCGAGCCTCAGAAGACCTCAGAAGATATCCGGACAGAGGCTCTAGCCAA
GGAAATTGTCCACCAAGACAAGTCTCTGGCAGACATTTTAGATCCTGACTCCAGGATGAAGACAACGATG
GACCTGATGGAGGGTTTATTCCCTGGAGACGCCAGTGTGCTGATGGATAGTGGCGCAAAGAGGAAAGCCT
TAGACATCACCGCCAGGCGTGCGGGATGTGAAGCCAAGGCGAGCGACCACAAGGAGGCAGTGAGTGTGCT

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GGTCAACTGTCCTGCCTACTACAGTGTCTCTGCTGCCAAGGCGGAGCTGCTCAACAAAATCAAAGACATG
CCGGAGGAGCTGCAGGAGGAGGAGGGGCAGGAGGATGTCAATGAGAAAAAGGCTGAGCTTATCGGAAGCC
TTACCCACAAGCTGGAGAGCCTCCAGGAAGCCAAGGGGAGCCTGCTCACGGACATCAAGCTGAACAATGC
CCTGGGAGAGGAGGTGGAGGCTCTGATCAGTGAGCTCTGCAAACCCAACGAGTTTGACAAGTACAAGATG
TTCATAGGGGACCTGGACAAGGTGGTCAACCTGCTGCTGTCCCTGTCTGGACGCCTGGCCCGCGTGGAGA
ACGTCCTCAGAGGCCTTGGTGAAGACGCCAGCAAAGAGGAAAGGAGTTCTCTGAACGAGAAAAGGAAGGT
TCTGGCTGGCCAGCATGAGGATGCACGGGAGCTCAAGGAGAACCTGGACCGGAGGGAGCGCGTGGTGCTG
GATATCCTGGCCAACTACCTGTCCGCCGAGCAGCTGCAGGACTACCAGCACTTCGTGAAGATGAAGTCCA
CACTCCTCATTGAGCAGCGGAAGCTGGATGACAAGATAAAGCTGGGCCAGGAGCAGGTCAGGTGCCTGCT
GGAGTCGCTTCCCTCGGACTTCAGGCCCAAGGCAGGGGCCATCTCCCTCCCTCCAGCCCTCACCGGCCAT
GGGACTCCTGGGGGGACATCTGTATTCGGTGGTGTTTTCCCAACGTTGACCTCTCCTCTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_015756

Insert Size: 5943 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_015756.2, NP_056571.2

RefSeq Size: 7210 bp

RefSeq ORF: 5943 bp

Locus ID: 27428

UniProt ID: Q9QXN0

Cytogenetics: 5 47.29 cM

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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 (1) represents the longest transcript and encodes the longer isoform (1).

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