

## Product datasheet for MR231877

### Shroom3 (NM\_001077595) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Shroom3 (NM_001077595) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Shroom3
Synonyms:	AL022960; D5Erttd287e; Shrm; Shrm3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231877 representing NM_001077595 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGCAGATATCTCAGGGCACAAATGGGCCCTCCTTGGCACCAGAGCTACCATTCCAGCTCTTCGACCA  
GTGACCTCTCCAACACGACCATGCTTATCTGAGGCGGAGCCCTGACCAGTGCAGCTCCCAGGGGAGCAT  
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GGGTGGCCTCCTAGAAGGGATGAGGCAGGCAGACATCCGCTACGTCGAGACGGTCTATGATACCCGAGAG  
GGAGTATCTTCAGAGTATGAGGTGAACCCCTCAGCCTTGCTCCTCAAGGTAGGGATGCCATGCCTCAG  
CCGACAGTCAGGGCTGTGCTAAATGGCACAGCATTCTCGGGCAAGGGAACGCCTTCCCCGCTTTGGAG  
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AATATTCCAGAGAGTCTGAGAAGACAAAGCAACGTGGAGCTTGGAGAAGCCAGGAGGTTACCCCCGGG  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR231877 representing NM\_001077595  
Red=Cloning site Green=Tags(s)

MMQISQGTMGPPWHQSYHSSSTSDL SNYDHAYLRRSPDQCSSQGSMELEPSGGYPPCHLLSPAKSTSS  
IDQLGHLHNKRDSAYSSFSTSSSIFEYPPPGGSARERSGSM DVI SARGLLEGM RQADIRYVKTVYDTRR  
GVSSEYVNP SALLLQGRDAHASADSQGC AKWHSIPRGKGT PPSWSQCSGSLETATDNL P QKAGAPLP  
PTRSDSYA AFRHRERPSSWSSLDQKRFCRPQTNSSGS QKTPFAEDQLHTVPERSPENSPVSKHNYTQK  
AQPGQPLLPTGIYVPSPPEPHFAQVPQPSVSSNGTVYPALVKESGYTAAQGT CNKMATLDENGNQNEASR  
PGFAFCQPLEHNSVTPVEKRPEPTAKYIYKVHFSVPENEDSSLKRHITPPHGHSPYPSERKNIHGG SRA  
CSNHSLSSPQAQALHVGDDRRPSRLSQPWE GDFQEDHNANLRQKVEREGQGQLSGNSGRTRSAFSSLQ  
NIPESLRRQSNVELGEAQEVHPGGRSKVEDPGRKAGASDIRGYLDRSVSYPRPEGKMN AVDSVHSADSR Y  
EESPA PALPQTS GASQRRLSSSSAAPQYRKPHCSVLEKVSRIEEREQGRHRPLSVGSSAYGPGYRPGRT  
GPTPSTSSDLD DPKAGSVHFSESTEHLRNGEQNPPNGEAKQEEASRPQCSHLIRRAPADGRGPPARGGE  
PSRPEARLLRSQSTFQLYSEAEREASWSEDRPGTPE SPLL DAPFSRAYRNSIKDAQSRVLGATSFRRRDL  
EPGTPATSRPWRPRPASAHVGMRSPEAAV PSSS PHTPRERHSVTPAAPQAARRGPRRRLTVEQKKRSYSE  
PEKMNEVGVSEEA EPTPCGPPRPAQPRFSESTVADRRRIFERD GKACSTLSL SGPELQKFQQSALADYIQ  
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PRDRSSSFASGRLVGERRRWD PQVPRQLLSGANCEPRGVQRM DGAPGPPSWGMVAGKAGKSKSAEDLLE  
RSDTLAVPVHVRSSPTSDKKGQDVLLREGSNFGVKDPCCLAGPGPRSLSCSDKGQNELALPLHHTP  
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MDQQTGQQPPSPASAVTQPTSPRSP ELS SPAYGLGEGMWKRTSLPQRPPPPVWKWAHAYREDGLAEDTL  
APEFANLKH YRNQPSRPS SCSTSDPDTPGRI SLR ISESALQPSPPPRGDYDDEVFMKDLHPKVTSSPTFE  
ALPPPPPPSPSE EPLVNGTDDFPPPPPPQALCEVLLDGEASTEAGSGPCRIPRVMVTREGHVPGA AHSE  
GSQIMTATPPQTS AKGSEAESNT PSSASAQPQLNGSPGKQLCPSQTRNLTYEPVERTQDLGKKTHAEPQK  
TSEDIRTEALAKEIVHQDKSLADILD PDSRMKTTMDLMEGLFPGDASVLMDSGAKRKALDITARRAGCEA  
KASDHKEAVSVL VNCPAYYSVSAAKAELLNKIKDMPEELQEEEGQEDVNEKKAELIGSLTHKLESLQEAK  
GSLLTDIKLNNALGEEVEALISELCKPNEFDKYKMFIGDLKVVNLLL SLSGRLARVENVLRGLGEDASK  
EERSSLNEKRKVLAGQHEDARELKENLDRRERVVLDILANYLSAEQLQDYQHFKMKSTLLIEQRKLD DK  
IKLGQEQVRCLLESLSDFRPKAGAISLPPAL TGHTPGGTSVFGGVFPTLT SPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



**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\\_001077595.2](#), [NP\\_001071063.1](#)

**RefSeq Size:** 6838 bp

**RefSeq ORF:** 5418 bp

**Locus ID:** 27428

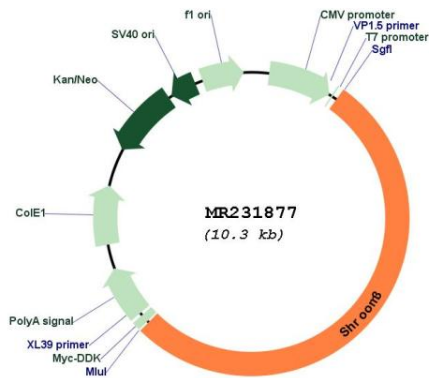
**UniProt ID:** [Q9QXN0](#)

**Cytogenetics:** 5 47.29 cM

**MW:** 195.4 kDa

**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]

### Product images:



Circular map for MR231877