

## Product datasheet for **MC209392**

### Sh3gl2 (NM\_019535) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sh3gl2 (NM\_019535) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Sh3gl2  
**Synonyms:** 9530001L19Rik; A1120490; AW555077; B930049H17Rik; EEN-B1; Sh3d2a; SH3PA  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209392 representing NM\_019535  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCGGTGGCAGGGCTGAAGAAGCAGTCCACAAAGCCACTCAGAAAGTGAGTGAGAAGGTGGGAGGAG  
CGGAAGGCACCAAGCTCGATGATGACTTCAAAGAGATGGAGAGGAAAGTGGATGTCACCAGCAGGGCTGT  
GATGGAGATAATGACAAAACGATTGAATACCTCCAACCAATCCAGCTCCAGGGCTAAGCTCAGTATG  
ATCAACACCATGTCGAAAATCCGCGGCCAAGAGAAGGGGCCAGGCTACCTCAGGCGGAAGCACTGCTGG  
CAGAGGCCATGCTCAAGTTCGGCAGGGAGCTGGGTGATGATTGCAACTTTGGTCTGCTCTCGGTGAGGT  
GGGAGAAGCCATGAGGGAGCTCTCGGAGGTCAAGGACTCATTGGACATGGAAGTGAAGCAGAATTTTCATC  
GACCCCTTCAGAATCTTCATGACAAGGATCTGAGGGAGATTCAGCATCATCTGAAAAAGCTGGAAGGCC  
GACGTTAGACTTTGATTATAAGAAGAAGCGACAAGGCAAGATTCAGATGAAGAACTCCGCCAAGCTCT  
GGAGAAATTCGATGAGTCTAAAGAAATCGCCGAGTCGAGCATGTTCAACCTCTTGAGATGGATATAGAA  
CAGGTGAGCCAGCTCTCCGCACTTGTTTCAGGCTCAGCTGGAGTACCACAAGCAGGCAGTCAGATCCTGC  
AGCAGTCACTGTCAGACTGGAAGAAAGAATAAGACAAGCTTTCATCTCAGCCAAGAAGGGAATATCAGCC  
CAAACCACGGATGAGCCTAGAGTTTGCCACTGGAGACAGTACTCAGCCCAACGGGGTCTCTCCACACA  
GGCACACCCAAACCTCCAGGTGTCCAAATGGATCAGCCCTGCTGCCGAGCTCTGTATGACTTTGAACCTG  
AAAATGAAGGGGAATTGGGTTTTAAAGAGGGCGATATCATCACACTACTAATCAGATTGACGAGAAGTGT  
GTATGAGGGGATGCTTCATGGCCAGTCTGGCTTTTCCCATCAACTATGTAGAAATTCTGGTTGCTCTG  
CCCCAT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_019535



<b>Insert Size:</b>	1059 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>NM_019535.2, NP_062408.2</u>
<b>RefSeq Size:</b>	2817 bp
<b>RefSeq ORF:</b>	1059 bp
<b>Locus ID:</b>	20404
<b>UniProt ID:</b>	<u>Q62420</u>
<b>Cytogenetics:</b>	4 40.23 cM
<b>Gene Summary:</b>	Implicated in synaptic vesicle endocytosis. May recruit other proteins to membranes with high curvature. Required for BDNF-dependent dendrite outgrowth (PubMed:21849472). Cooperates with SH3GL2 to mediate BDNF-NTRK2 early endocytic trafficking and signaling from early endosomes (PubMed:21849472).[UniProtKB/Swiss-Prot Function]