

## Product datasheet for **SC112969**

### SAP102 (DLG3) (NM\_021120) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SAP102 (DLG3) (NM\_021120) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SAP102  
**Synonyms:** MRX; MRX90; NEDLG; PPP1R82; SAP102; XLMR  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_021120 edited  
CAGAAGCGGTCTCACAGCACCCATTCTGCTTGAGCTCCCGCTTCTTCTTTGCCGCTG  
GGCCTCGGCCAGAAAGCCACGACGGGCGACACGGAGCCGACGTGCTGGAGGGGAGCCG  
TGGGTGCGGGGACAGCTGGGGCCGAGGCCCGGACGCCCGCCCGGCCAGGCCCCG  
TCAGCCCGGGCGCCCCACGGGTGCCCCCTTCTTGGTCCGAGCAGTGTGAGTGTGCC  
AGGGAGCCCGGCGGCGGGCGGGTGGTGGCGGCGGTGGCGGCGGCTGGAATCCGGC  
GTGGGCTGGGGGCTCCGAGCCGCGGGGCGAGTGCATGCACAAGCACCAGCACTGCTGT  
AAGTGCCTGAGTGTATGAGGTGACCCGCTGGCCGCTCGGGCGCTCGAGCCTCCG  
GGCTACGGCGACTGGCAAGTCCCCGACCCTTACGGCCAGGTGGGGCAACGGCGCCAGC  
GCGGGTTATGGGGCTACAGCTCGCAGACCTTGCCTCGCAGGCGGGGCCACCCACC  
CCTCGCACCAAGGCAAGCTCATCCCCACGGCCGGGATGTGGGGCCGGTGCCTCCTAAG  
CCAGTCCCGGGCAAGAGCACCCCAAACCAACGGCAGCGGCCAGCTGGTGGCCAGAG  
TGCACCTGTACCAACCGGACTGGTATGAGCAGGTGAATGGCAGTGTGATGTCATCAA  
TATGAGGAAATCGTACTTGAGAGGGCAACTCTGGCCTGGGCTTCAAGTATCGCAGGTGGC  
ATCGACAATCCCCATGTCCCTGATGACCCTGGCATCTTTATTACCAAGATTATCCCTGGT  
GGAGCAGTGCATGGATGGGAGGCTGGGGTGAATGACTGTGTGCTGCGGGTGAATGAG  
GTGGACGTGTCGGAGGTGGTACACAGCCGGCGGTGGAGGCGCTGAAGGAGGCAGGCCCT  
GTGGTGCATTGGTGGTGGGAGGCGACAGCCTCACCCGAGACCATCATGGAGGTCAAC  
CTGCTCAAAGGGCCAAAGGCCTGGGTTTCAGCATTGCTGGGGTATTGGCAACCAGCAC  
ATCCCAGGAGACAACAGCATCTACATCACCAAGATCATTGAGGGGGTGTGCTCAGAAG  
GATGGACGCCCTACAGATTGGGGACCGGCTGCTGGCGGTGAACAACCAATCTGCAGGAT  
GTGAGGCACGAGGAAGCTGTGGCCTCACTGAAGAACACATCTGATATGGTGTATTTGAAG  
GTGGCCAAAGCCAGGCAGCCTCCACCTCAACGACATGTACGCTCCCCCTGACTACGCCAGC  
ACTTTTACTGCCTTGGCTGACAACCACATAAGCCATAATTCCAGCCTGGGTTATCTCGGG  
GCTGTGGAGAGCAAGGTGAGTACCCTGCTCCTCCTCAGGTTCCCCCACCCGCTACTCT  
CCTATTCCAGGCACATGCTGGCTGAGGAGGACTTCACCAGAGAGCCTCGCAAGATCATC  
CTGCACAAAGGCTCCACAGGCCTGGGCTTCAACATCGTAGGAGGAGGATGGAGAAGGC



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ATTTTTGTCTCCTTCATCCTGGCAGGAGGCCAGCTGACCTGAGTGGGGAGCTGCGCAGG  
 GGAGACCGGATCTTATCGGTGAATGGAGTGAATCTGAGGAATGCAACTCATGAGCAGGCT  
 GCAGCTGCTCTGAAACGGGCCCGCCAGTCAGTCACCATTGTGGCCAGTACAGACCTGAA  
 GAATACAGTCGCTTTGAATCGAAGATACATGACTTACGAGAACAATGATGAACAGCAGC  
 ATGAGCTCTGGGTCTGGGTCCCTCCGAACAAGTAAAAGAGGTCTTGTATGTCAGGGCC  
 CTGTTTGATTATGATCGGACTCGGGACAGCTGCCTGCCAAGCCAGGGGCTCAGCTTCTCT  
 TATGGTGACATTCTGCATGTCATTAATGCCTCTGATGATGAGTGGTGGCAGGCAAGGCTG  
 GTGACCCACACGGAGAAAGTGAGCAGATCGGTGTGATCCCCAGTAAGAAGAGGGTGGAA  
 AAGAAAGAAAGAGCTCGATTGAAAACTGTGAAGTTCCATGCCAGGACGGGGATGATTGAG  
 TCTAACAGGGACTTCCCGGGTTAAGTGACGATTATTATGGAGCAAAGAACCTGAAAGGA  
 CAAGAGGATGCTATTTTGCATATGAGCCAGTGACACGGCAAGAAATTCATATGCAAGG  
 CCTGTGATCATCTGGGCCAATGAAGGACCGAGTCAATGATGACCTGATCTCCGAATTT  
 CCACATAAATTTGGATCTGTGTGCCACATACTACCCGGCCTCGAGCTGATAATGAGGTG  
 GATGGACAAGACTACCCTTTGTGGTGTCCCGAGAACAATGGAGAAAGATATTCAGGAC  
 AACAAAGTTCATCGAGGCGGGCAATTTAATGATAACCTCTATGGGACCAGCATCCAGTCA  
 GTGCGGGCAGTTGCAGAGAGGGGCAAGCACTGCATCTTAGATGTTTCCGGCAATGCTATC  
 AAGAGACTGCAGCAAGCAACTTTACCCATTGCCATTTTCATCAAGCCAAAGTCCATT  
 GAAGCCCTTATGGAAATGAACCGAAGGCAGACATATGAACAAGCAAATAAGATCTATGAC  
 AAAGCCATGAAACTGGAGCAGGAATTTGGAGAGTACTTTACAGCCATTGTACAGGGTGAC  
 TCACTGGAAGAGATTTATAACAAAATCAAAATAATCATTGAGGACCAGTCTGGGCACTAC  
 ATTTGGTCCCATCCCCTGAAAACTCTGAAGAATCCCCTCCAACCATTCTTTGTGAAC  
 AGAAGAAATCAAGTCCCTCTTCCCTCCTCCCTTTCATTCTGTCCCATGGGGAGAACA  
 AATGCTACTGTTCTTGTCCCCTTTTTAGATATGTCAAAAAAATTAAGTTTTCTAGTCC  
 TGTCTTTTTTTTTTTTTAAGTTTTTGTGTTTTCAGTTTATTTTTTGGGATGATGCCAT  
 CTATTATCATGTGACTGTGCCATTCTGCATGGACCTTTCCAAGCGCTAGCACAGG  
 TGCAAAATC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021120 unedited  
 GATTTTGTGATACGACTCACTATAGGGCGCCGCGAATTCGGCAGAGGGGGACCAGAG  
 CAGAAGCGGTCTCACAGCACCCATTCTGCTTGAGCTCCCGCTTCTTCTTTGCCGCTG  
 GGCTCGGCCCAGAAGCCACGACGGGCGACACGGAGCCGCCAGTCTGGAGGGGGAGCCG  
 TGGGTGCGGGGACGCTGGGGCCGAGGCCCGGGACGCCCGCCCGCCAGGCCCCGC  
 TCAGCCCGGGCGCCCCACGGGTGCCCCCCCTTCTTGGTCCGAGCAGTGTGAGTGTGCC  
 AGGGAGCCCGGCGGGCGGGCGGGTGGTGGCGGCGGTGGCGGCGGTGGAATCCGGC  
 GTGGGCTGGGGGTCGAGCCGGGGGGCAGTGCCATGCACAAGCACCAGCACTGCTGT  
 AAGTGCCTGAGTGTATGAGGTGACCCGCTGGCCGCCCTCGGCGCCTCGAGCCTCCG  
 GGCTACGGCGACTGGCAAGTCCCGACCCTTACGGGCCAGGTGGGGCAACGGCGCCAGC  
 GCGGGTTATGGGGGCTACAGCTCGCAATACTTGCCTCGCAGGCGGGGCCACCCACCCC  
 TCGCACAGGCCAAGCTCATCCCCACCGCCGGGATGTGGGGCCGGTGCCTTCTTAGCCA  
 GTCCCGGGCAAGAGCACCCCAAACCAACGGCAGCGGGCCCCAGCTTGTGGCCANAGT  
 GCACCTGTACCAACCGGGACTGGTATGAGCANGTGAATGGCAGTGTGATGTTCAATA  
 TGAGGAAATCGTACTTGAGAGGGGCAACTCTGGCCCTGGCTTAGTATCGCAGGTGCACGA  
 CATCCCATGTCTGTACCTGCTCTATACAAATTCTGGACCTCTATAGTATTCTGAAGCT  
 AGACCGGACAGCTGTGGGACCACTAACGTGTGCNNNNNNNNTNNNNNNNCNCCNCCAN  
 NNNNNNCCTCCCTCCNCCNCCACCCCCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021120

**Insert Size:**

4500 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>	<a href="#">NM_021120.1</a> , <a href="#">NP_066943.1</a>
<b>RefSeq Size:</b>	3100 bp
<b>RefSeq ORF:</b>	2454 bp
<b>Locus ID:</b>	1741
<b>UniProt ID:</b>	<a href="#">Q92796</a>
<b>Cytogenetics:</b>	Xq13.1
<b>Domains:</b>	SH3, PDZ, Guanylate_kin, GuKc
<b>Gene Summary:</b>	<p>This gene encodes a member of the membrane-associated guanylate kinase protein family. The encoded protein may play a role in clustering of NMDA receptors at excitatory synapses. It may also negatively regulate cell proliferation through interaction with the C-terminal region of the adenomatosis polyposis coli tumor suppressor protein. Mutations in this gene have been associated with X-linked cognitive disability. Alternatively spliced transcript variants have been described. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>