

## Product datasheet for **RG210860**

### **SAP102 (DLG3) (NM\_021120) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SAP102 (DLG3) (NM_021120) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SAP102
Synonyms:	MRX; MRX90; NEDLG; PPP1R82; SAP102; XLMR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210860 representing NM\_021120  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCACAAGCACCAGACTGCTGTAAGTGCCTGAGTGCTATGAGGTGACCCGCCTGGCCGCCCTGCGGC  
 GCCTCGAGCCTCCGGGCTACGGCGACTGGCAAGTCCCGACCCTTACGGGCCAGGTGGGGCAACGGCGC  
 CAGCGCGGGTTATGGGGCTACAGCTCGCAGACCTTGCCCTCGCAGGCGGGGCCACCCCAACCCCTCGC  
 ACCAAGGCCAAGCTCATCCACCGCCGGGATGTGGGCGCGTGCCTCCTAAGCCAGTCCCGGGCAAGA  
 GCACCCCAAACTCAACGGCAGCGGCCAGCTGGTGGCCAGAGTGACCTGTACCAACCGGACTGGTA  
 TGAGCAGGTGAATGGCAGTGATGGCATGTTCAAATATGAGGAAATCGTACTTGAGAGGGGCAACTCTGGC  
 CTGGGCTTCAGTATCGCAGGTGGCATCGACAATCCCCATGTCCCTGATGACCCTGGCATCTTTATTACCA  
 AGATTATCCCTGGTGGAGCAGCTGCCATGGATGGGAGGCTGGGGTGAATGACTGTGTGCTGCGGGTGAA  
 TGAGGTGGACGTGTCGGAGGTGGTACACAGCCGGGCGGTGGAGGCGCTGAAGGAGGCAGGCCCTGTGGT  
 CGATTGGTGGTGGGAGGCGACAGCCTCCACCCGAGACCATCATGGAGGTCAACCTGCTCAAAGGGCCCA  
 AAGGCCTGGGTTTCAGCATTGCTGGGGGTATTGGCAACCAGCACATCCCAGGAGACAACAGCATCTACAT  
 CACCAAGATCATTGAGGGGGTCTGCTCAGAAGGATGGACGCCTACAGATTGGGGACCGGCTGCTGGCG  
 GTGAACAACACCAATCTGCAGGATGTGAGGCACGAGGAAGCTGTGGCCTCACTGAAGAACACATCTGATA  
 TGGTGTATTTGAAAGTGGCCAAGCCAGGCAGCCTCCACCTCAACGACATGTACGCTCCCCCTGACTACGC  
 CAGCACTTTTACTGCCTTGGCTGACAACCACATAAGCCATAATCCAGCCTGGGTATCTCGGGGCTGTG  
 GAGAGCAAGGTCAGCTACCCTGCTCCTCCTCAGGTTCCCCCACCCTACTCTCCTATTTCCAGGCACA  
 TGCTGGCTGAGGAGGACTTCACCAGAGAGCCTCGCAAGATCATCTGCACAAAGGCTCCACAGGCCTGGG  
 CTTCAACATCGTAGGAGGAGAGGATGGAGAAGGCATTTTTGTCTCCTTCATCCTGGCAGGAGGCCAGCT  
 GACCTGAGTGGGAGCTGCGCAGGGGAGACCGGATCTTATCGGTGAATGGAGTGAATCTGAGGAATGCAA  
 CTCATGAGCAGGCTGCAGCTGCTCTGAAACGGGCGGCCAGTCACTCACCATTGTGGCCAGTACAGACC  
 TGAAGAATACAGTCGCTTTGAATCGAAGATACATGACTTACGAGAACAAATGATGAACAGCAGCATGAGC  
 TCTGGGTCTGGTCCCTCCGAACAAGTGAAGAGGTCCTTGTATGTGAGGGCCCTGTTTGATTATGATC  
 GGACTCGGACAGCTGCCTGCCAAGCCAGGGGCTCAGCTTCTTATGGTACATTCTGCATGTCATTAA  
 TGCTCTGATGATGAGTGGTGGCAGGCAAGGCTGGTACCCACACGGAGAAAGTGAGCAGATCGGTGTG  
 ATCCCCAGTAAGAAGAGGTTGAAAAGAAAGAAAGAGCTCGATTGAAAAGTGTGAAGTTCATGCCAGGA  
 CGGGGATGATTGAGTCTAACAGGACTTCCCGGGTTAAGTGACGATTATTATGGAGCAAAGAACCCTGAA  
 AGGACAAGAGGATGCTATTTTGTATATGAGCCAGTGACACGGCAAGAAATTCATATGCAAGGCCTGTG  
 ATCATCTGGGCCAATGAAGGACCGAGTCAATGATGACCTGATCTCCGAATTTCCACATAAATTTGGAT  
 CCTGTGTGCCACATACTACCCGGCTCGACGTGATAATGAGGTGGATGGACAAGACTACCACTTTGTGGT  
 GTCCCCGAGAACAATGGAGAAAGATATTCAGGACAACAAGTTCATCGAGGCGGGCCAATTTAATGATAAC  
 CTCTATGGGACCAGCATCCAGTCAGTGCAGGAGTTCAGAGAGGGGCAAGCACTGCATCTTAGATGTTT  
 CCGGCAATGCTATCAAGAGACTGCAGCAAGCACAACCTTTACCCATTGCCATTTTCATCAAGCCCAAGTC  
 CATTGAAGCCCTTATGGAATGAACCGAAGGCAGACATATGAACAAGCAAATAAGATCTATGACAAAGCC  
 ATGAAACTGGAGCAGGAATTTGGAGAGTACTTTACAGCCATTGTACAGGCTGACTCACTGGAAAGAGATTT  
 ATAACAAAATCAAACAAATCATTGAGGACCAGTCTGGGCACTACATTTGGTCCCATCCCCTGAAAAGT  
 C

**ACGGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >RG210860 representing NM\_021120  
Red=Cloning site Green=Tags(s)

MHKHQHCCKCEPEYVTRLAALRRLEPPGYGDWQVPDPYGGGGNGASAGYGGYSSQTLPSQAGATPTPR  
TKAKLIPTGRDVGPPPKVPGKSTPKLNGSGPSWWPECTCTNRDWEQVNGSDGMFKYEEIVLERGNSG  
LGFSIAGGIDNPHVDDPGIFITKIIPGGAAAMDGRLGVNDCVLRVNEVDVSEVVHRAVEALKEAGPVV  
RLVRRRQPPPETIMEVNLLKGPGLGFSIAGGINQHIPGDNSIYITKIEGGAAQDGRLLQIGDRLLA  
VNNTNLQDVRHEEAVASLKNTSDMVYLKVAKPGSLHLNDMYAPPDYASTFTALADNHI SHNSSLGYL GAV  
ESKVSYPAPPQVPTRYSPIPRHMLAEEDFTREPRKIILHKGSTGLGFNIVGGEDGEGIFVSFILAGGPA  
DL SGELRRGDRILSVNGVNLRNATHEQAAAALKRAGQSVTIVAQYRPEEYSRFESKIHDLREQMMNSSMS  
SGSGSLRTSEKRSLYVRALFDYDRTRDCLPSQGLSFSYGDILHVINASDDEWWQARLVTPHGESEQIGV  
IPSKRVEKKERARKTVKFHARTGMIESNRDFPGLSDDYYGAKNLKGQEDAILS YEPVTRQEIHYPV  
IILGPMKDRVNDLISEFPHKFGSCVPHTTRPRRDNEVDGQDYHFVVSREQMEKDIQDNKFEAGQFNDN  
LYGTSIQSVRAVAERGKHCILDVSGNAIKRLQQAQLYPIAIFIKPKSIEALMEMNRRQTYEQANKIYDKA  
MKLEQEFGEYFTAIVQGSLEEIYNKIKQIIEDQSGHYIWWPSPEKL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

Cloning Scheme:



ACCN: NM\_021120

ORF Size: 2451 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_021120.4](#)

**RefSeq Size:** 3100 bp

**RefSeq ORF:** 2454 bp

**Locus ID:** 1741

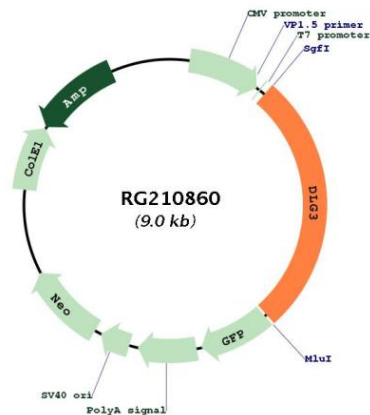
**UniProt ID:** [Q92796](#)

**Cytogenetics:** Xq13.1

**Domains:** SH3, PDZ, Guanylate\_kin, GuKc

**Gene Summary:** 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]

### Product images:



Circular map for RG210860