

Product datasheet for **RC219249**

SAP102 (DLG3) (NM_020730) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAP102 (DLG3) (NM_020730) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SAP102
Synonyms:	MRX; MRX90; NEDLG; PPP1R82; SAP102; XLMR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219249 representing NM_020730
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAGGGCCCGCAAGTTCTCGGGCTCCGGCTTGCCATGGGCTTGGGCTCCGCTCCGCTTCCGGCT
 GGAGGAGGGCTTCGAGAGGTGGGCTTGCCGCTCCGCTCCCTCGGGCCCGAGGGGATGCCAGAGAGCC
 TCGCAAGATCATCTGCACAAAGGCTCCACAGGCTGGGCTTCAACATCGTAGGAGGAGAGGATGGAGAA
 GGCATTTTTGTCTCCTTCATCTGGCAGGAGGCCAGCTGACCTGAGTGGGGAGCTGCGCAGGGGAGACC
 GGATCTTATCGGTGAATGGAGTGAATCTGAGGAATGCAACTCATGAGCAGGCTGCAGCTGCTCTGAAACG
 GGCCGGCCAGTCAGTCACCATTGTGCCAGTACAGACCTGAAGAATACAGTCGCTTTGAATCGAAGATA
 CATGACTTACGAGAACAATGATGAACAGCAGCATGAGCTCTGGGCTGGGTCCCTCCGAACAAGTGAAA
 AGAGGTCCTTGTATGTCAGGGCCCTGTTTGATTATGATCGGACTCGGGACAGCTGCCTGCCAAGCCAGGG
 GCTCAGCTTCTCTTATGGTGACATTCTGCATGTCATTAATGCCTCTGATGATGAGTGGTGGCAGGCAAGG
 CTGGTGACCCACACGGAGAAAGTGAGCAGATCGGTGTGATCCCCAGTAAGAAGAGGGTGAAAAAGAAAG
 AAAGAGCTCGATTGAAAAGTGTGAAGTCCATGCCAGGACGGGGATGATTGAGTCTAACAGTTCGATCAA
 AACGAAACGTAAGAGAGTTCCGCCTCTCTCGAAAGTTCCATTTTACAAGAGCAAAGAAAACATGGCC
 CAGGAGAGCAGCATACAGGAACAGGGAGTGACATCCAACACCAAGTACAGCGAAAGCAGTTCCAAAGGAC
 AAGAGGATGCTATTTTGTATATGAGCCAGTGACACGGCAAGAAATTCATATGCAAGGCCGTGATCAT
 CCTGGGCCAATGAAGGACCGAGTCAATGATGACCTGATCTCCGAATTTCCACATAAATTTGGATCCTGT
 GTGCCACATACTACCCGGCTCGACGTGATAATGAGGTGGATGGACAAGACTACCACTTTGTGGTGTCCC
 GAGAACAATGGAGAAAGATATTCAGGACAACAAGTTTCATCGAGGCGGGCCAATTTAATGATAACCTCTA
 TGGGACCAGCATCCAGTCAGTCCGGCAGTTGCAGAGAGGGCAAGCACTGCATCTTAGATGTTTTCCGGC
 AATGCTATCAAGAGACTGCAGCAAGCACAACCTTTACCCATTGCCATTTTCATCAAGCCCAAGTCCATTG
 AAGCCCTTATGGAATGAACCGAAGGCAGACATATGAACAAGCAAATAAGATCTATGACAAGCCATGAA
 ACTGGAGCAGGAATTTGGAGAGTACTTTACAGCCATTGTACAGGGTGACTCACTGGAAGAGATTTATAAC
 AAAATCAAACAATCATTGAGGACCAGTCTGGGCACTACATTTGGGTCCCATCCCCTGAAAAACT

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219249 representing NM_020730
 Red=Cloning site Green=Tags(s)

MERARKFSGSGLAMGLGSASASAWRRASQRWAWPLRSLRPGDAREPRKIIILHKGSTGLGFNIVGGEDGE
 GIFVSEFILAGGPADLSEGLRRGDRILSVNGVNLRNATHEQAAAALKRAGQSVTIVAQYRPEEYSRFESKI
 HDLREQMMNSSMSGSLRTSEKRSLYVRALFDYDRTRDCLPSQGLSFSYGDILHVINASDDEWQAR
 LVTPHGESEQIGVIPSKKRVEKKERARLKVTFHARTGMIESNRSIKTKRKSFRLSRKFPFYKSKENMA
 QESSIQEQVTSNTSDSESSKQEDAILSYEPVTRQEIHYARPVIILGPMKDRVNDLISEFPHKFGSC
 VPHTTRPRRDNEVDGQDYHFVVSREQMEKDIQDNKFI EAGQFNDNL YGTSIQSVRAVAERGKHCILDVSG
 NAIKRLQQAQLYPIAIFIKPKSIEALMEMNRRQTYEQANKIYDKAMKLEQEFGEYFTAIVQGSLEEIYN
 KIKQIIEDQSGHYIWPVSPEKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_d08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_020730

ORF Size: 1536 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_020730.3](#)

RefSeq Size: 5068 bp

RefSeq ORF: 1539 bp

Locus ID: 1741

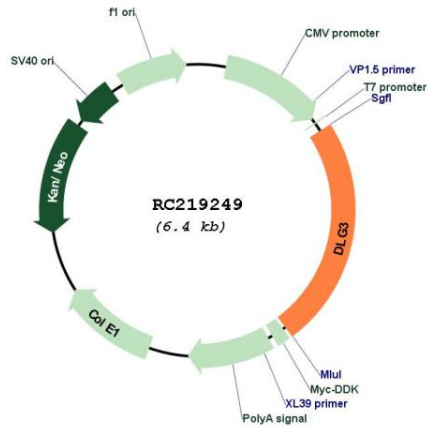
UniProt ID: [Q92796](#)

Cytogenetics: Xq13.1

MW: 57.8 kDa

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 adenomatous 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 RC219249