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Product datasheet for RG229951

SAP102 (DLG3) (NM_001166278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAP102 (DLG3) (NM_001166278) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DLG3
Synonyms:	MRX; MRX90; NEDLG; PPP1R82; SAP102; XLMR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG229951 representing NM_001166278
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGAACAGCAGCATGAGCTCTGGGTCTGGGTCCCTCCGAACAAGTGAAAAGAGGTCCTTGTATGTCA
GGGCCCTGTTTGATTATGATCGGACTCGGGACAGCTGCCTGCCAAGCCAGGGGCTCAGCTTCTCTTATGG
TGACATTCTGCATGTCATTAATGCCTCTGATGATGAGTGGTGGCAGGCAAGGCTGGTGACCCCACACGGA
GAAAGTGAGCAGATCGGTGTGATCCCCAGTAAGAAGAGGGTGGAAAAGAAAGAAAGAGCTCGATTGAAAA
CTGTGAAGTTCCATGCCAGGACGGGGATGATTGAGTCTAACAGGTCGATCAAAACGAAACGTAAAAAGAG
TTTCCGCCTCTCTCGAAAGTTTCCATTTTACAAGAGCAAAGAAAACATGGCCCAGGAGAGCAGCATACAG
GAACAGGGAGTGACATCCAACACCAGTGACAGCGAAAGCAGTTCCAAAGGACAAGAGGATGCTATTTTGT
CATATGAGCCAGTGACACGGCAAGAAATTCACTATGCAAGGCCTGTGATCATCCTGGGCCCAATGAAGGA
CCGAGTCAATGATGACCTGATCTCCGAATTTCCACATAAATTTGGATCCTGTGTGCCACATACTACCCGG
CCTCGACGTGATAATGAGGTGGATGGACAAGACTACCACTTTGTGGTGTCCCGAGAACAAATGGAGAAAG
ATATTCAGGACAACAAGTTCATCGAGGCGGGCCAATTTAATGATAACCTCTATGGGACCAGCATCCAGTC
AGTGCGGGCAGTTGCAGAGAGGGGCAAGCACTGCATCTTAGATGTTTCCGGCAATGCTATCAAGAGACTG
CAGCAAGCACAACTTTACCCCATTGCCATTTTCATCAAGCCCAAGTCCATTGAAGCCCTTATGGAAATGA
ACCGAAGGCAGACATATGAACAAGCAAATAAGATCTATGACAAAGCCATGAAACTGGAGCAGGAATTTGG
AGAGTACTTTACAGCCATTGTACAGGGTGACTCACTGGAAGAGATTTATAACAAAATCAAACAAATCATT
GAGGACCAGTCTGGGCACTACATTTGGGTCCCATCCCCTGAAAAACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

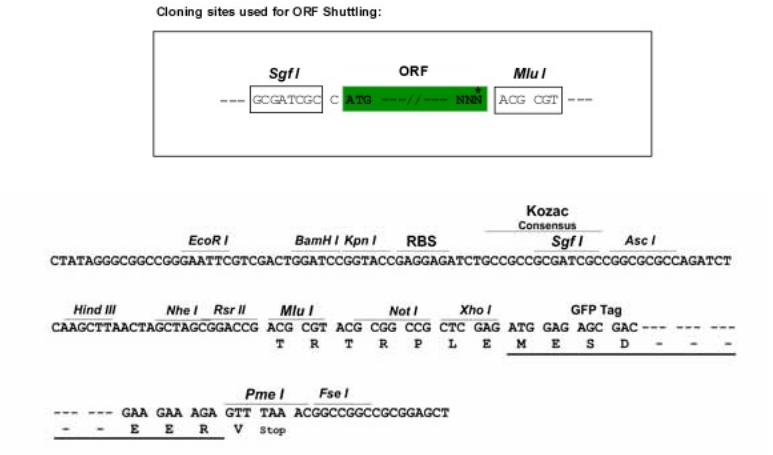
>RG229951 representing NM_001166278
Red=Cloning site Green=Tags(s)

MMNSSMSSGSGSLRTSEKRSLYVRALFDYDRTRDSCLPSQGLSFSYGDILHVINASDDEWWQARLVTPHG
ESEQIGVIPSKKRVEKKERARLKTVKFHARTGMIESNRSIKTKRKKSFRLSRKFPFYKSKENMAQESSIQ
EQGVTSNTSDSESSSKGQEDAILSYEPVTRQEIHYARPVIILGPMKDRVNDDLISEFPHKFGSCVPHTTR
PRRDNEVDGQDYHFVVSREQMEKDIQDNKFIEAGQFNDNLYGTSIQSVRAVAERGKHCILDVSGNAIKRL
QQAQLYPIAIFIKPKSIEALMEMNRRQTYEQANKIYDKAMKLEQEFGEYFTAIVQGDSLEEIYNKIKQII
EDQSGHYIWVPSPEKL

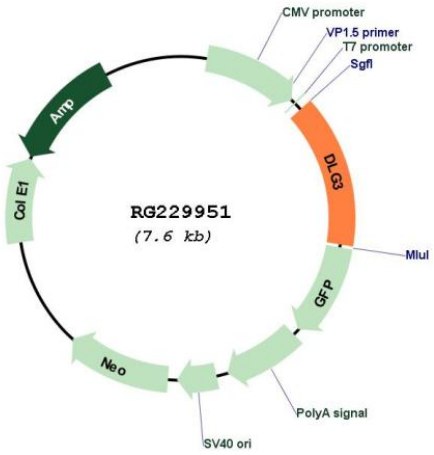
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001166278

ORF Size:	1098 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_001166278.1, NP_001159750.1
RefSeq Size:	4544 bp
RefSeq ORF:	1101 bp
Locus ID:	1741
UniProt ID:	Q92796
Cytogenetics:	Xq13.1
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]