

## Product datasheet for **RG227175**

### **PSD93 (DLG2) (NM\_001142699) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PSD93 (DLG2) (NM_001142699) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DLG2
Synonyms:	chapsyn-110; PPP1R58; PSD-93; PSD93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG227175 representing NM\_001142699  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTATCTTTAAGAGCAGCTTATTCCAAGCTTTGCTAGATATCCAAGAATTTTATGAGGTGACATTGC  
 TAAATTCTCAAAAAAGTTGTGAGCAGAAGATAGAAGAAGCCAATCAAGTTTTACAGAAATGGGAGAAGAC  
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 GAAAAATGCTTCATGTATTGAGCAAAAATAAAGAAAAATCAGAGTTTTGAAAAATGAACTGATGAGACGACAA  
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**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG227175 representing NM\_001142699  
 Red=Cloning site Green=Tags(s)

MGIFKSSLFQALLDIQEFYEVTLNLSQKSCEQKIEEANQVLQKWEKTSLLAPCHDRLQKSELTDCSGSK  
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 VRGPELVHVSEKNLSQIENVHGYVLQSHISPLKASPAPIVNTDLDLTIPIVYVNGTEIEYEFEEITLERN  
 SGLGFSIAGGTDNPHIGDDPGIFITKIIPGGAAEDGRLRVNDCILRVNEVDVSEVSHSKAVEALKEAGS  
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 KTSLPPISPGRYSPIPKHMLVDDDYTRPPEPVYSTVNKLCDKPASPRHYSPECDKSFLLSAPYSHYHLG  
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 EKDIQEHKFI EAGQYNDNL YGTSVQSVRFVAERKHCILDVSGNAIKRLQVAQLYPIAIFIKPRSLEPLM  
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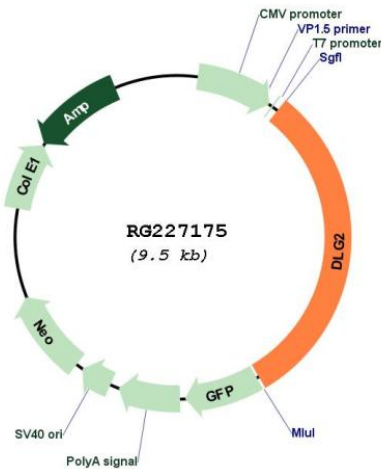
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001142699

**ORF Size:** 2925 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001142699.3](#)

RefSeq Size: 8061 bp

RefSeq ORF: 2928 bp

Locus ID: 1740

UniProt ID: [Q15700](#)

Cytogenetics: 11q14.1

Protein Families: Druggable Genome

**Gene Summary:** This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family. The encoded protein forms a heterodimer with a related family member that may interact at postsynaptic sites to form a multimeric scaffold for the clustering of receptors, ion channels, and associated signaling proteins. Multiple transcript variants encoding different isoforms have been found for this gene. Additional transcript variants have been described, but their full-length nature is not known. [provided by RefSeq, Dec 2008]