

Product datasheet for **RG233167**

PSD93 (DLG2) (NM_001206769) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSD93 (DLG2) (NM_001206769) 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:

>RG233167 representing NM_001206769
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAATGCATACCTACCAAGCAACACAGCTGCAGCCGGGGTCCGATGGGATGGATGCCGTGAGGAGT
CGCCACCCTGATCAGGGATGCCACTGTGCTTGTGGCTGGCAGAGGAAGTGCAGGGGCTCGGGTACAG
TTCTCAGACCATGCCCTCCTCAGGACCAGGGGGCCAGCTTCAAACAGGACCGGGGGTCCAGCTTCAAC
AGGACCTTGTGGGACAGTGTGCGGAAAAGCCCCACAAGACGAGCACCAAGGGCAAAGGGACTTGTGGGG
AGCATTGTACCTGCCACATGGTTGGTTCAGCCCAGCACAGGCCAGTCTGCTCTATAATTGTCAACAC
AGATACTTTGGACACAATTCCTTATGTCAATGGGACAGAAATGAATATGAATTTGAAGAAATTACTG
GAGAGGGGAATTCTGGCCTGGGATTCACTATTGCTGGGGGACAGATAATCCCCACATTGGAGATGACC
CTGGCATATTTATTACGAAGATTATACCAGGAGGTGCTGCAGCAGAGGATGGCAGACTCAGGGTCAATGA
TTGATCTTGGGGTGAATGAGGTTGATGTGTCAGAGGTTTCCCACAGTAAAGCGGTGGAAGCCCTGAAG
GAAGCAGGGTCTATCGTTCGGCTGTATGTGCGTAGAAGACGACCTATTTGGAGACCGTGTGGAAATCA
AACTGTTCAAAGGCCCTAAAGGTTTAGGCTTCACTATTGCAGGAGGTGTGGGGAACCAACACATTCTGG
AGACAACAGCATTTATGTAATAAAATTAAGATGGAGGAGCTGCACAAAAGATGGAAGGTTGCAAGTA
GGAGATAGACTACTAATGGTAAACAACACAGTTTAGAAGAAGTAACACACGAAGAGGCAGTAGCAATAT
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TGGTCCACCTGATTAATCACTCTTATCTCCACCAATGGAAAACCATCTACTCTGGAACAATGGC
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TTGTTGACGACGACTACACCAGCCTCCGGAACCTGTTTACAGCACTGTGAACAACTATGTGATAAGCC
TGCTTCTCCAGGCACTATCCCCTGTTGAGTGTGACAAAAGCTTCTCCTCTCAGCTCCCTATTCCCAC
TACCACCTAGGCCTGCTACCTGACTCTGAGATGACCAGTATTCCCAACATAGCACCGCAACTCGTCAGC
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CACAGCATGAGCTCCGGTCCGGATCCCTGCGAACCAATCAGAAACGCTCCCTCTACGTGAGGCCATGT
TCGACTACGACAAGAGCAAGGACAGTGGGCTGCCAAGTCAAGGACTTAGTTTTAAATATGGAGATATTCT
CCACGTTATCAATGCCTCTGATGATGAGTGGTGGCAAGCCAGGAGATCATGCTGGAGGGAGACAGTGGAG
GAGATGGGGTCAATCCCCAGCAAAGGAGGGTGGAAAAGAAAGCAAGTGCCTGTTGAAGACAGTGAAGT
TTAATGCCAAACCTGGAGTGATTGATTCGAAAGGGTCAATCAATGACAAGCGTAAAAGAGCTTCATCTT
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AGCTAGAACAAGAATTTGGAGAATTTTACAGCTATTGTCCAAGGAGATACTTTAGAAGATATATATAA
CCAATGCAAGCTTGTATTGAAGAGCAATCTGGCCTTTCATCTGGATTCCTCAAAGGAAAAGTTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >RG233167 representing NM_001206769
 Red=Cloning site Green=Tags(s)

MNAYLTKQHSCSRGSDGMDAVRSAPTLIRDAHCACGWQRNCQGLGYSSQTMPSSGPGGPASNRTGGSSFN
 RTLWDSVRKSPHKTSTKGGKTCGEHCTCPHGWFSPAQASPAPIIVNTDTLDTIPYVNGTEIEYEFEEITL
 ERGNSGLGFSIAGGTDNPHIGDDPGIFITKIIPGGAAAEDGRLRVNDCILRVNEVDVSEVSHSKAVEALK
 EAGSIVRLYVRRRRPILETVVEIKLFKGPKGLGFSIAGGVGNQHIPGDNSIYVTKIIDGGAAQKDGRLQV
 GDRLLMVNYSLEEVTHEEAVAILKNTSEVVYLKVGKPTTIYMTDPYGPDPDITHSYSPPMENHLLSGNNG
 TLEYKTSLPPISPGRYSPIPKHMLVDDDYTRPPEPVYSTVNKLCDKPASPRHYSPECDKSFLLSAPYSH
 YHLGLLPDSEMTSHSQHSTATRQPSMTLQRAVSLERGEPRKVVLHKGSTGLGFNIVGGEDGEGIFVSFILA
 GGPADLSGELQRGDQILSVNGIDLRGASHEQAAAAKLGAGQVTIIAQYQPEDYARFEAKIHDLREQMMN
 HSMSSGSGSLRTNQKRSLYVRAMFDYDKSKDGLPSQGLSFKYGDILHVINASDDEWQARRVMLEGDSE
 EMGVIPSKRRVERKERARLKTVKFNAKPGVIDSKGSFNDKRKKSFI SRKFPFYKNKEQSEQETSDPERG
 QEDLILSYEPVTRQEINYTRPVIILGPMKDRINDDLISEFPDKFGSCVPHTTRPKRDYEVDGRDYHFVIS
 REQMEKDIQEHKFI EAGQYNDNL YGTSVQSVRVAERGGKHCILDVSGNAIKRLQVAQLYPIAIFIKPRSL
 EPLMEMNKRLTEEQAKKTYDRAIKLEQEFGEYFTAIVQGD TLEDIYNQCKLVIEEQSGPFIWIPSKKEL

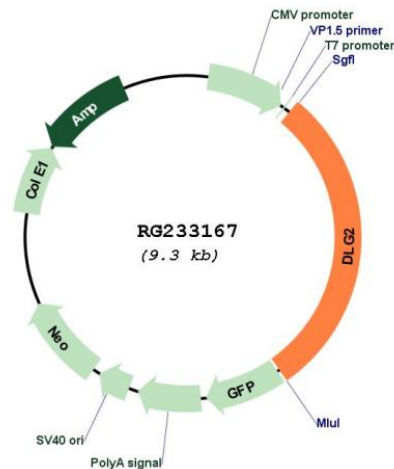
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001206769

ORF Size: 2727 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_001206769.2](#)

RefSeq Size: 7730 bp

RefSeq ORF: 2730 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]