

Product datasheet for **RG226876**

PSD93 (DLG2) (NM_001142702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSD93 (DLG2) (NM_001142702) 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)
ORF Nucleotide Sequence:	>RG226876 representing NM_001142702 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGAACCACAGCATGAGCTCCGGTCCGGATCCCTGCGAACCAATCAGAAACGCTCCCTCTACGTCA
GAGCCATGTTTCGACTACGACAAGAGCAAGGACAGTGGGCTGCCAAGTCAAGGACTTAGTTTTAAATATGG
AGATATTCTCCACGTTATCAATGCCTCTGATGATGAGTGGTGGCAAGCCAGGAGAGTCATGCTGGAGGGA
GACAGTGAGGAGATGGGGTTCATCCCAGCAAAGGAGGGTGGAAAGAAAGGAACGTGCCCGATTGAAGA
CAGTGAAGTTTAAATGCCAACCTGGAGTGATTGATTTCGAAAGGGGACATCCCAGGATTAGGTGACGACGG
TTATGGAACAAAGACTCTGAGAGGACAAGAAGACCTCATTCTTTCTATGAGCCTGTTACAAGGCAGGAA
ATAAACTACCCCGCCGGTGATTATCCTGGGGCCCATGAAGGATCGGATCAATGACGACTTGATATCTG
AATTCCTGATAAATTTGGCTCCTGTGTGCCTCATACTACGAGGCCAAAGCGGAGACTACGAGGTGGATGG
CAGAGACTATCACTTTGTCAATTCAGAGAACAATGGAGAAAGATATCCAAGAGCACAAGTTTATAGAA
GCCGGCCAGTACAATGACAATTTATATGGAACCAAGTGTGCACTGTGAGATTTGTAGCAGAAAGAGGCA
AACACTGTATACTTGATGTATCAGGAAATGCTATCAAGCGTTACAAGTTGCCAGCTCTATCCCATTGC
CATCTTCATAAAACCCAGGTCTCTGGAACCTCTTATGGAGATGAATAAGCGTCTAACAGAGGAACAAGCC
AAGAAAACCTATGATCGAGCAATTAAGCTAGAACAAGAATTTGGAGAATATTTTACAGCTATTGTCCAAG
GAGATACTTTAGAAGATATATATAACCAATGCAAGCTTGTATTGAAGAGCAATCTGGCCCTTTCATCTG
GATTCCCTCAAAGGAAAAGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226876 representing NM_001142702
 Red=Cloning site Green=Tags(s)

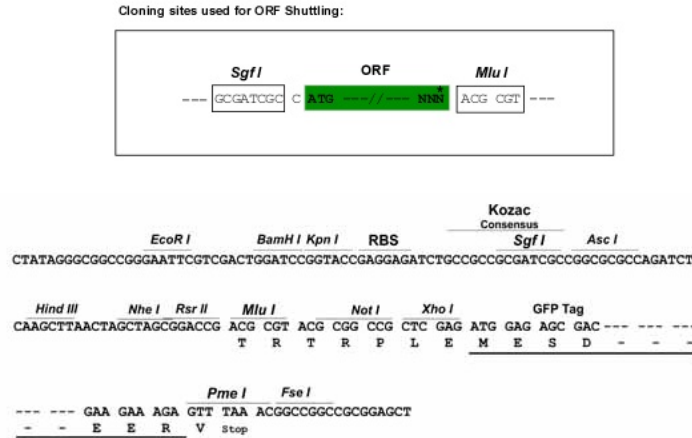
MMNHSMSGSGSLRTNQKRSLYVRAMFDYDKSKDSGLPSQGLSFKYGDILHVINASDDEWQARRVMLEG
 DSEEMGVIPSKRRVERKERARLKTVKFNAKPGVIDSKGDIPGLGDDGYGKTLRGQEDLILSYEPVTRQE
 INYTRPVIILGPMKDRINDDLISEFPDKFGSCVPHTTRPKRDYVDGRDYHFVISREQMEKDIQEHKFIE
 AGQYNDNLYGTSVQSVRFVAERGGKHCILDVSGNAIKRLQVAQLYPIAIFIKPRSLEPLMEMNKRLTEEQA
 KKTYDRAIKLEQEFGEYFTAIVQGDITLEDIYNQCKLVIEEQSGPFIWIPSKEKL

TRTRPLE - GFP Tag - V

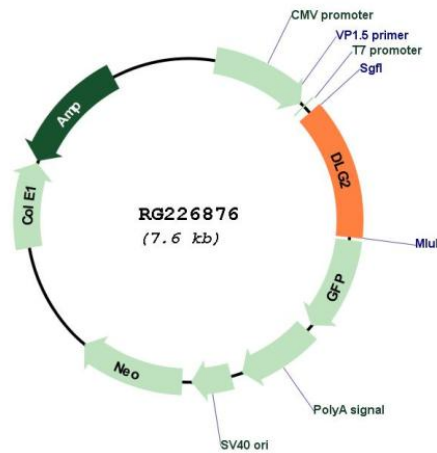
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001142702

ORF Size: 1002 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:	<ol style="list-style-type: none">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_001142702.2
RefSeq Size:	6138 bp
RefSeq ORF:	1005 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]