

## Product datasheet for **RG239685**

### PSD93 (DLG2) (NM\_001300983) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSD93 (DLG2) (NM_001300983) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSD93
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:**

>RG239685 representing NM\_001300983.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTCTTTGCATGTTACTGTGCACTCCGGACTAACGTGAAGAAGTATCGATATCAAGATGAGGACGCT
CCACATGATCATTCTTACCTCGACTAACCCACGAAGTAAGAGGCCAGAACTCGTGCATGTATCAGAA
AAGAACCCTCTCTCAAATAGAAAATGTCCATGGATATGTCTTGCAGTCTCATATTTCTCCTCTGAAGGCC
AGTCTGCTCCTATAATTGTCAACACAGATACTTTGGACACAATTCCTTATGTCAATGGGACAGAAATT
GAATATGAATTTGAAGAAATTACACTGGAGAGGGGGAATTCTGGCCTGGGATTAGTATTGCTGGGGGG
ACAGATAATCCCCACATTGGAGATGACCCTGGCATATTTATTACGAAGATTATACCAGGAGGTGCTGCA
GCAGAGGATGGCAGACTCAGGGTCAATGATTGTATCTTGGCGGTGAATGAGGTTGATGTGCAGAGGTT
TCCCACAGTAAAGCGGTGGAAGCCCTGAAGGAAGCAGGGTCTATCGTTCGGCTGTATGTGCGTAGAAGA
CGACCTATTTGGAGACCGTTGTGGAAATCAAAGTCTTCAAAGGCCCTAAAGTTTAGGCTTCAGTATT
GCAGGAGGTGTGGGAACCAACACATTCTGGAGACAACAGCATTATGTAATAAAATTATAGATGGA
GGAGCTGCACAAAAGATGGAAGTTGCAAGTAGGAGATAGACTACTAATGGTAAACAACACTACAGTTTA
GAAGAAGTAACACACGAAGAGGCAGTAGCAATATTAAGAACACATCAGAGGTAGTTTATTTAAAGTT
GGCAAACCCACTACCATTTATATGACTGATCCTTATGGTCCACCTGATATTACTCACTCTTATTCTCCA
CCAATGGAAAACCATCTACTCTCTGGCAACAATGGCACTTTAGAATATAAAAACCTCCCTGCCACCCATC
TCTCCAGGAAGGTACTCACCAATTCAAAGCACATGCTTGTGACGACGACTACACCAGGCTCCGGAA
CCTGTTTACAGCACTGTGAACAACTATGTGATAAGCCTGCTTCTCCAGGCACTATTCCCTGTTGAG
TGTGACAAAAGCTTCTCCTCTCAGTCCCTATCCCCTACCACCTAGGCTGTACTGACTGTGACTGTGAG
ATGACAGTCATTCCCAACATAGCACCGCACTCGTCAGCCTTCAATGACTCTCCAACGGCCGCTCC
CTGGAAGGAGAGCCTCGCAAGGTAGTCCCTGCACAAAGGCTCCACTGGCCTGGGCTTCAACATTGTCCGT
GGGAAGATGGAGAAGGTATTTTGTGCTTCTATTCTGGCTGGTGGACCAGCAGACCTAAGTGGGGAG
CTCCAGAGAGGAGACCAGATCCTATCGGTGAATGGCATTGACCTCCGTGGTGCATCCCACAGCAGGCA
GCTGCTGCACTAAAGGGGCTGGACAGACAGTACGATTATAGCACAAATCAACCTGAAGATTACGCT
CGATTTGAGGCCAAAATCCATGACCTACGAGAGCAGATGATGAACCACAGCATGAGCTCCGGTCCGGA
TCCCTGCAACCAATCAGAAACGCTCCCTCTACGTCAGAGCCATGTTGACTACGACAAGAGCAAGGAC
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GAAGACCTCATTCTTCTATGAGCCTGTTACAAGGCAGGAAATAAACTACACCCGGCCGGTGATTATC
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GTGCTCATACTACGAGGCCAAAGCGAGACTACGAGGTGGATGGCAGAGACTATCACTTTGTCAATTTCC
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TATGGAACCAAGTGCAGTCTGTGAGATTTGTAGCAGAAAAGGGCAAACACTGTACTTGTATGTATCA
GGAAATGCTATCAAGCGTTACAAGTTGCCAGCTCTATCCCATTGCCATCTTCATAAAAACCCAGGTC
CTGGAACCTCTTATGGAGATGAATAAGCGTCTAACAGAGGAACAAGCCAAGAAAACCTATGATCGAGCA
ATTAAGCTAGAACAAGAATTTGGAGAATTTTTACAGCTATTGTCCAAGGAGATACTTTAGAAGATATA
TATAACCAATGCAAGCTTGTATTGAAGAGCAATCTGGCCTTTCATCTGGATTCCCTCAAAGGAAAAAG
TTA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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**Protein Sequence:** >Peptide sequence encoded by RG239685  
Blue=ORF Red=Cloning site Green=Tag(s)

MFFACYCALRTNVKKYRYQDEEDAPHDHSLPRLTHEVRGPELVHVSEKNLSQIENVHGYVLQSHISPLKA  
SPAPIIVNTDLDLTIPIYVNGTEIEYEFEEITLERGNSGLGFSIAGGTDNPHIGDDPGIFITKIIPGGAA  
AEDGRLRVNDCILRVNEVDVSEVSHSKAVEALKEAGSIVRLYVRRRRPILETVVEIKLFKGPKGLGFSI  
AGGVGNQHIPGDNISYVTKIIDGGAAQKDGRLQVGDRLLMVNNYSLEEVTHEEAVAILKNTSEVVYLKV  
GKPTTIYMTDPYGPPDITHSYSPMENHLLSGNNGTLEYKTSLPPISPGRYSPIPKHMLVDDDYTRPPE  
PVYSTVNLKCDKPASPRHYSVPECDKSFLLSAPYSHYHLGLLPDSEMTSHSQHSTATRQPSMTLQRAVS  
LEGEPRKVVLHKGSTGLGFNIVGGEDGEGIFVSFILAGGPADLSGELQRGDQILSVNGIDLRGASHEQA  
AAALKGAGQVTIIAQYQPEDYARFEAKIHDLREQMMNHSMSGSGSLRTNQKRSLYVRAMFDYDKSKD  
SGLPSQGLSFKYGDILHVINASDDEWWQARRVMLEGDSEEMGVIPSKRRVERKERARLTKVFNAPGV  
IDSKGDIPLGDDGYGKTLRGQEDLILSYEPVTRQEIYTRPVIILGPMKDRINDDLISEFPDKFGSC  
VPHTTRPKRDYEVDRDYHFVISREQMEKDIQEHKFEAGQYNDNLYGTSVQSVRFVAERGGKHCILDVS  
GNAIKRLQVAQLYPIAIFIKPRSLEPLMEMNKRLTEEQAKKTYDRAIKLEQEFGEYFTAIVQGDLEDI  
YNQCKLVIEEQSGPFIWIPSKEKL  
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
MGYGFYHFGTYPYSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHMFKSAIHPSILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001300983

ORF Size: 2556 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).

RefSeq: [NM\\_001300983.1](#), [NP\\_001287912.1](#)

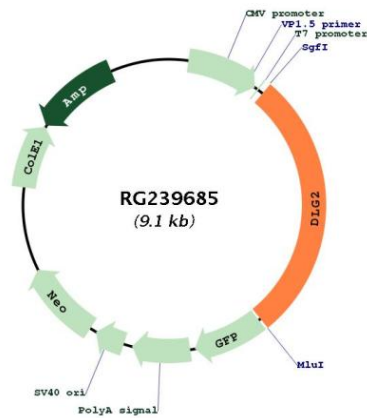
RefSeq Size: 7668 bp

RefSeq ORF: 2559 bp

**Locus ID:** 1740  
**Cytogenetics:** 11q14.1  
**Protein Families:** Druggable Genome  
**MW:** 95.5 kDa

**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]

**Product images:**



Circular map for RG239685