

## Product datasheet for **RC227175**

### 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:	Myc-DDK
Symbol:	PSD93
Synonyms:	chapsyn-110; PPP1R58; PSD-93; PSD93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC227175 representing NM\_001142699  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTATCTTTAAGAGCAGCTTATTCCAAGCTTTGCTAGATATCCAAGAATTTTATGAGGTGACATTGC  
 TAAATTCTCAAAAAGTTGTGAGCAGAAGATAGAAGAAGCCAATCAAGTTTTACAGAAATGGGAGAAGAC  
 ATCCCTTCTTGCTCCGTGCCATGACAGACTTCAAAAATCTTCAGAGCTTACAGATTGCGAGTGGATCAAAG  
 GAAAATGCTTCATGTATTGAGCAAAAATAAAGAAAATCAGAGTTTTGAAAATGAAACTGATGAGACGACAA  
 CTCAAAACCAAGGCAGATGCCAGCCAGAAATTGTTCAAGTGAAGCCCTGCTTGGATGCCTGTCCACCA  
 CTGTAAGTATCGATATCAAGATGAGGACGCTCCACATGATCATTCTTACCTCGACTAACCCACGAA  
 GTAAGAGGCCAGAACTCGTGCATGTATCAGAAAAGAACCTCTCTCAATAGAAAATGTCCATGGATATG  
 TCTTGAGTCTCATATTTCTCTCTGAAGGCCAGTCTGCTCTATAATTGTCAACACAGATACTTTGGA  
 CACAATTCCTTATGTCAATGGGACAGAAATGAATATGAATTTGAAGAAATTACTGGAGAGGGGGAAT  
 TCTGGCCTGGGATTCAGTATTGCTGGGGGACAGATAATCCACATTGGAGATGACCCTGGCATATTTA  
 TTACGAAGATTATACCAGGAGGTGCTGCAGCAGAGGATGGCAGACTCAGGGTCAATGATTGTATCTTGCG  
 GGTGAATGAGGTTGATGTGTGAGAGTTTCCCACAGTAAAGCGGTGGAAGCCCTGAAGGAAGCAGGGTCT  
 ATCGTTCCGGTGTATGTGCGTAGAAGACGACCTATTTGGAGACCCTTGTGGAATCAAAGTGTCAAAG  
 GCCCTAAAGGTTTAGGCTTCAGTATTGCAGGAGGTGTGGGAACCAACACATTCTGGAGACAACAGCAT  
 TTATGTAATAAAATTAAGATGGAGGAGCTGCACAAAAGATGGAAGGTTGCAAGTAGGAGATAGACTA  
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 CAGAGGTAGTTTTATTTAAAAGTTGGCAAACCCACTACCTTTATGACTGATCCTTATGGTCCACTGA  
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 AAAACCTCCCTGCCACCCATCTCTCCAGGAAGGTACTCACAATTCCAAAGCACATGCTTGTGACGACG  
 ACTACACCAGGCCTCCGGAACCTGTTTACAGCACTGTGAACAACTATGTGATAAGCCTGCTTCTCCAG  
 GCACTATTCCTGTTGAGTGTGACAAAAGCTTCTCTCTCAGCTCCCTATTCCCACTACCACCTAGGC  
 CTGCTACCTGACTCTGAGATGACCAGTATTCCCAACATAGCACCGCAACTCGTCAGCCTCAATGACTC  
 TCCAACGGCCGCTCTCCCTGGAAGGAGAGCCTCGCAAGGTAGTCTGCACAAAGGCTCCACTGGCCTGGG  
 CTTCAACATTGTCGGTGGGAAGATGGAGAAGGATTTTTGTGTCCTTCTCTGGCTGGTGGACCAGCA  
 GACCTAAGTGGGAGCTCCAGAGAGGAGACCAGATCCTATCGGTGAATGGCATTGACCTCCGTGGTGCAT  
 CCCACGAGCAGGAGCTGCTGCACTAAAGGGGGCTGGACAGACAGTACGATTATAGCACAATATCAACC  
 TGAAGATTACGCTCGATTTGAGGCCAAAATCCATGACCTACGAGAGCAGATGATGAACCACAGCATGAGC  
 TCCGGTCCGGATCCCTGCGAACCAATCAGAAACGCTCCCTCTACGTGAGAGCCATGTTGACTACGACA  
 AGAGCAAGGACAGTGGGCTGCCAAGTCAAGGACTTAGTTTTAAATATGGAGATATTCTCCAGTTATCAA  
 TGCCTCTGATGATGAGTGGTGGCAAGCCAGGAGTCAATGCTGGAGGGAGACAGTGAAGGATGGGGGTC  
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 CCCATTTACAAGAACAAGGAGCAGAGTGAGCAGGAAACCAAGTATCTGAACGAGGACAAGAAGACCTC  
 ATTCTTTCTATGAGCCTGTTACAAGGCAGGAAAATAAACTACACCCGGCCGGTATTATCTGGGGCCCA  
 TGAAGGATCGGATCAATGACGACTTGATATCTGAATCCCTGATAAATTTGGCTCCTGTGTGCCTACAT  
 TACGAGGCCAAAGCGAGACTACGAGGTGGATGGCAGAGACTATCACTTTGTCAATTCAGAGAACAATG  
 GAGAAAGATATCCAAGAGCACAAGTTTATAGAAGCCGGCCAGTACAATGACAATTTATATGGAACCAAGT  
 TGCAGTCTGTGAGATTTGTAGCAGAAAGAGGCAAAACACTGTATACTTGATGTATCAGGAAATGCTATCAA  
 GCGGTTACAAGTTGCCAGCTCTATCCATTGCCATCTCATAAAACCCAGGTCTCTGGAACCTCTTATG  
 GAGATGAATAAGCGTCTAACAGAGGAACAAGCCAAGAAAACCTATGATCGAGCAATTAAGCTAGAACAAG  
 AATTTGGAGAATATTTTACAGCTATTGTCCAAGGAGATACTTTAGAAGATATATATAACCAATGCAAGCT  
 TGTATTGAAGAGCAATCTGGCCCTTCTCATCTGGATTCCCTCAAAGGAAAAGTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227175 representing NM\_001142699  
 Red=Cloning site Green=Tags(s)

MGIFKSSLFQALLDIQEFYEVTLNLSQKSCEQKIEEANQVLQKWEKTSLLAPCHDRLQKSELTDCSGSK  
 ENASCIEQNKENQSFENETDETTTQNGRCPAQNCSVEAPAWMPVHHCTKYRYQDEDAHPDHSLPRLTHE  
 VRGPELVHVSEKNLSQIENVHGYVLQSHISPLKASPAPIVNTDLDLTIPIVYVNGTEIEYEFEEITLERN  
 SGLGFSIAGGTDNPHIGDDPGIFITKIIIPGGAAAEDGRLRVNDCILRVNEVDVSEVSHSKAVEALKEAGS  
 IVRLYVRRRRPILETVVEIKLFGPKGLGFSIAGGVGNQHIPGDNSIYVTKIIDGGAAQKDGRLLQVGDRL  
 LMVNNYSLEEVTHEEAVAILKNTSEVVYLKVGKPTTIYMTDPYGPDDITHSYSPMENHLLSGNNGTLEY  
 KTSLPPISPGRYSPIPKHMLVDDDYTRPPEPVYSTVNKLCDKPASPRHYSPECDKSFLLSAPYSHYHLG  
 LLPDSEMTSHSQHSTATRQPSMTLQRAVSLGEPKRVVLHKGSTGLGFNIVGGEDGEGIFVSVILAGGPA  
 DLSELQQRGDQILSVNGIDLRGASHEQAAAAKAGAGQVTIIAQYQPEDYARFEAKIHDLREQMMNHMSMS  
 SGGSLRTNQKRSLYVRAMFDYDKSKDGLPSQGLSFKYGDILHVINASDDEWQARRVMLEGDSEEMGV  
 IPSKRRVERKERARLKTVKFNAKPGVIDSKGSFNDKRRKSFIFSRKFPFYKNKEQSEQETS DPERGQEDL  
 ILSYEPVTRQEINYTRPVIILGPMKDRINDDLISEFPDKFGSCVPHTTRPKRDYVDGRDYHFVISREQM  
 EKDIQEHKFI EAGQYNDNL YGTSVQSVRFVAERKHCILDVSGNAIKRLQVAQLYPIAIFIKPRSLLEPLM  
 EMNKRLTEEQAKKTYDRAIKLEQEFGEYFTAIYVQGDLEDIYNQCKLVIEEQSGPFIWIPSKKEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8032\\_c03.zip](https://cdn.origene.com/chromatograms/mk8032_c03.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



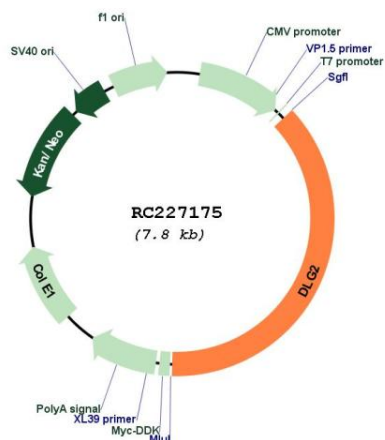
\* The last codon before the Stop codon of the ORF

ACCN: NM\_001142699

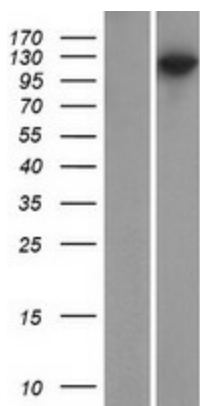
ORF Size: 2925 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001142699.3</a>
<b>RefSeq ORF:</b>	2928 bp
<b>Locus ID:</b>	1740
<b>UniProt ID:</b>	<a href="#">Q15700</a>
<b>Cytogenetics:</b>	11q14.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	109.2 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RC227175



Western blot validation of overexpression lysate (Cat# [LY428249]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227175 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).