

Product datasheet for **RC227260**

PSD93 (DLG2) (NM_001142700) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSD93 (DLG2) (NM_001142700) 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:**

>RC227260 representing NM_001142700
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAACGGCCAAGTGTTCCTCGGGCTGAGAATTATCAGCTTTTGTGGGATACTATTGCTTCCTTAAAC
 AATGTGAACAAGCTATGCAACATGCATTTATCCGGTCAATGGGACAGAAATTGAATATGAATTTGAAGA
 AATTACACTGGAGAGGGGAATTCTGGCCTGGGATTAGTATTGCTGGGGGACAGATAATCCCCACATT
 GGAGATGACCCTGGCATAATTTATACGAAGATTATACCAGGAGGTGCTGCAGCAGAGGATGGCAGACTCA
 GGGTCAATGATTGTATCTTGGGGTGAATGAGGTTGATGTGCAGAGTTTCCACAGTAAAGCGGTGGA
 AGCCCTGAAGGAAGCAGGTCTATCGTTCGGCTGTATGTGCGTAGAAGACGACCTATTTGGAGACCGTT
 GTGAAATCAAAGTGTCAAAGGCCCTAAAGGTTTAGGCTTCAGTATTGCAGGAGGTGTGGGAACCAAC
 ACATTCCTGGAGACAACAGCATTATGTAATAAAATATAGATGGAGGAGCTGCACAAAAGATGAAG
 GTTGCAAGTAGGAGATAGACTACTAATGGTAAACAACACAGTTTAGAAGAAGTAACACACGAAGAGGCA
 GTAGCAATATTAAGAACACATCAGAGGTAGTTTATTTAAAAGTTGGCAAACCCACTACCATTTATATGA
 CTGATCCTTATGGTCCACCTGATTAATACTACTCTTATTCACCAATGGAAAACCATCTACTCTCTGG
 CAACAATGGCACTTTAGAATATAAAACCTCCCTGCCACCCATCTCTCCAGGAAGTACTACCAATTCCA
 AAGCACATGCTTGTGACGACGACTACACCAGTCAATCCCAACATAGCACCGCAACTCGTCAGCCTTCAA
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 CCTGGGCTTCAACATTGTGCGTGGGAAGATGGAGAAGTATTTTGTGTCCTTCACTCTGGCTGGTGA
 CCAGCAGACCTAAGTGGGAGCTCCAGAGAGGAGACCAGATCCTATCGGTGAATGGCATTGACCTCCGTG
 GTGCATCCACGAGCAGGCAGCTGCTGCACTAAAGGGGGCTGGACAGACAGTGACGATTATAGCACAA
 TCAACCTGAAGATTACGCTCGATTTGAGGCCAAAATCCATGACCTACGAGAGCAGATGATGAACACAGC
 ATGAGCTCCGGTCCGGATCCCTGCGAACCAATCAGAAACGCTCCCTCTACGTCAGAGCCATGTTGACT
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 TCTGAGAGGACAAGAAGACCTCATTCTTCTATGAGCCTGTTACAAGGCAGGAAATAAACTACACCCGG
 CCGGTGATTATCCTGGGCCCATGAAGGATCGGATCAATGACGACTTGATATCTGAATCCCTGATAAAT
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 TGTCAATTCAGAGAACAATGGAGAAAGATATCCAAGAGCACAAGTTTATAGAAGCCGGCCAGTACAAT
 GACAATTTATATGGAACCAAGTGTGCAGTCTGTGAGATTTGTAGCAGAAAGAGGCAAAACACTGTATACTTG
 ATGTATCAGGAAATGCTATCAAGCGTTACAAGTTGCCAGCTCTATCCCATTGCCATCTTCATAAAACC
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 CGAGCAATTAAGCTAGAACAAGAATTTGGAGAATTTTACAGCTATTGTCCAAGGAGATACTTTAGAAG
 ATATATAACCAATGCAAGCTTGTATTGAAGAGCAATCTGGCCTTTCATCTGGATCCCTCAAAGGA
 AAAGTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227260 representing NM_001142700
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MQRPSVSRAENYQLLWDTIASLKQCEQAMQHAFIPVNGTEIEYEFEEITLERGNSGLGFSIAGGTDNPHI
 GDDPGIFITKIIIPGAAAEDGRLRVNDCILRVNEVDVSEVSHSKAVEALKEAGSIVRLYVRRRPILETV
 VEIKLFGKPKGLGFSIAGGVGNQHIPGDNISYVTKIIDGGAQKDGRLQVGDRLLMVNNYSLEEVTHEEA
 VAILKNTSEVVYLKVGKPTTIYMTDPYGPPIITHSYSPPMENHLLSGNNGTLEYKTSLPPISPGRYSPIP
 KHMLVDDDYTSHSQHSTATRQPSMTLQRAVSLEGEPRKVVLHKGSTGLGFNIVGGEDGEGIFVSFILAGG
 PADLSEGLQRGDQILSVNGIDLRGASHEQAAAALKGAGQVTIIAQYQPEDYARFEAKIHDLREQMMNHS
 MSSGSGSLRTNQKRSLYVRAMFDYDKSKDGLPSQGLSFKYGDILHVINASDDEWQARRVMLEGDSEEM
 GVIPSKRRVERKERARLKTVKFNAKPGVIDSKGDIPLGDDGYGKTLRGQEDLILSYEVPTRQEIYNYTR
 PVIILGPMKDRINDLISEFPDKFGSCVPHTTRPKRDYEVDRDYHFVISREQMEKDIQEHKFIEAGQYN
 DNLYGTSVQSVRFVAERKHCILDVSGNAIKRLQVAQLYPIAIFIKPRSLEPLMEMNKRLEEQAKKTYD
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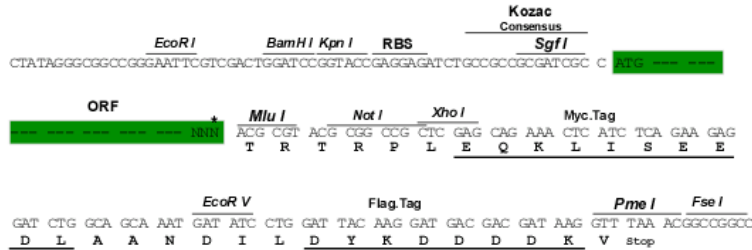
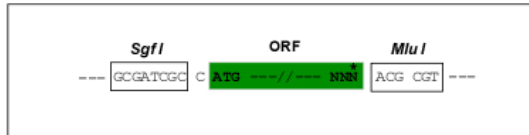
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



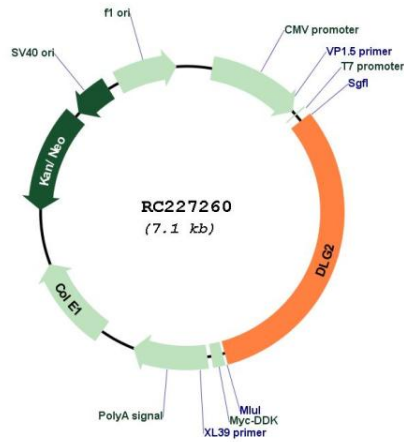
* The last codon before the Stop codon of the ORF

ACCN: NM_001142700

ORF Size: 2247 bp

OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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_001142700.2
RefSeq ORF:	2250 bp
Locus ID:	1740
UniProt ID:	Q15700
Cytogenetics:	11q14.1
Protein Families:	Druggable Genome
MW:	83.2 kDa
Gene Summary:	<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 RC227260