

Product datasheet for **RG226113**

PSD95 (DLG4) (NM_001128827) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSD95 (DLG4) (NM_001128827) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DLG4
Synonyms:	MRD62; PSD95; SAP-90; SAP90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226113 representing NM_001128827
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTGTCTCTGTATAGTGACAACCAAGAAATACCGCTACCAAGATGAAGACACGCCCCCTCTGGAGC
 ACAGCCCGGCCACCTCCCCAACCAAGGCCAATTCCCCCAGTGATTGTCAACACAGATACCCTAGAAGC
 CCCAGGATATGTGAACGGGACCGAGGGGAGATGGAATACGAGGAAATCACATTGGAAAGGGTAACTCA
 GGTCTGGGCTTCAGCATCGCAGGTGGCACTGACAACCCACACATCGGTGACGACCCATCCATTTTCATCA
 CCAAGATCATTCTGGTGGGCTGCGGCCAGGATGGCCGCTCAGGGTCAACGACAGCATCCTGTTTGT
 AAATGAAGTGGACGTGCGCGAGGTGACCCACTCAGCGCGGTGGAAGCCCTCAAAGAGGCAGGCTCCATC
 GTTCGCTCTATGTCATGCGCCGAAGCCCCGGCTGAGAAGTCATGGAGATCAAGTCATCAAGGGGC
 CTAAGGTTCTGGCTTCAGCATCGCAGGGGCGTAGGGAACCAGCACATCCAGGAGATAATAGCATCTA
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 GCGGTCAACAGTGTGGGCTAGAGGACGTCATGCATGAAGATGCTGTGGCAGCCCTGAAGAACACGTATG
 ATGTTGTCTACCTAAAGGTGGCCAAGCCAGCAATGCCTACCTGAGTGACAGCTATGCTCCCCCAGACAT
 CACAACCTCTTATTTCCAGCACCTGGACAATGAGATCAGTCACAGCAGCTACCTGGGCACCGACTACCC
 ACAGCCATGACCCCACTTCCCCCGGCGCTACTCTCCAGTGGCCAAGGACCTGCTCGGGGAGGAAGACA
 TTCCCCGAGAACCAGGGCAATTGTGATCCACCGGGCTCCACGGGCTGGGCTTCAACATCGTGGGTGG
 CGAGGACGGTGAAGGCATCTTCATCTCCTTTATCTGGCCGGGGCCCTGCAGACCTCAGTGGGGAGCTG
 CGGAAGGGGACCAGATCCTGTGGTCAACGGTGTGGACCTCCGAAATGCCAGCCATGAGCAGGCTGCCA
 TTGCCCTGAAGAATGCGGGTCAGACGGTCACGATCATCGCTCAGTATAAACCAGAAGATACAGCCGATT
 CGAGGCCAAGATCCACGACCTTCGGGAACAGCTCATGAACAGCAGCCTGGGCTCAGGACTGCGTCCCTG
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 AAGACTCGTTCTGAGCTACGAGACAGTGACGCAGATGGAAGTGCATATGCTCGCCCCATCATCATCT
 TGGGCCACCAAGGACCGCCCAACGATGATCTTCTCTCCGAGTTCCCGACAAGTTGGATCCTGTGTT
 CCCCATACGACACGGCCCAAGCGGGAGTATGAGATAGATGGCCGGGATTACCACTTTGTGTGTCGCCGG
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 GACCAGCTCCAGTCCGTGCGAGAGGTGGCAGAGCAGGGGAAGCACTGCATCCTCGATGTCTCGGCAAT
 GCCGTGCGGGCGGCTGCAGGCGGCCACCTGCACCCCATCGCCATCTTCATCCGCCCCGCTCCCTGGAGA
 ATGTGCTAGAGATTAACAAGCGGATCACAGAGGAGCAAGCCCGCAAAGCCTTCGACAGAGCCACCAAGCT
 GGAGCAGGAGTTCACAGAGTCTTCTCAGCCATCGTGGAGGGTGACAGCTTTGAGGAGATCTACCACAAG
 GTGAAGCGTGTATCGAGGACCTCTCAGGCCCTACATCTGGGTTCCAGCCCGAGAGAGACTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226113 representing NM_001128827
 Red=Cloning site Green=Tags(s)

MDCLCIVTTKKYRYQDEDTPPLEHSPAHLPNQANSPPVIVNTDTLEAPGYVNGTEGEMEEYEEITLERNGS
 GLGFSIAGGTDNPHIGDDPSIFITKIIPGGAAQDGLRVNDSILFVNEVDVREVTHSAAVEALKEAGSI
 VRLYVMRRKPPAEKVMEIKLIKGPKGLGFSIAGGVGNQHIPGDNSIYVTKIEGGAHKDGLRQIGDKIL
 AVNSVGLLEDVMHEDAVAALKNTYDVVYLKVAKPSNAYLSDSYAPPDITTSYSQHLDNEISHSSYLGTDYP
 TAMTPTSPRRYSPVAKDLLGEEDIPREPRRIVHRGSTGLGFNI VGGEDGEGIFISFILAGGPADLSGEL
 RKGQILSVNGVDLRNASHEQAAIALKNAGQVTIIAQYKPEEYSRFEAKIHDLREQLMNSSLSGSGTASL
 RSNPKRGFYIRALFDYDKTKDCGFLSQALSFRFGDVLHVIDASDEEWWQARRVHSDSETDDIGFIPSKRR
 VERREWSRLKAKDWSSSGSQGREDSVLSYETVTQMEVHYARPIIILGPTKDRANDLLSEFPDKFGSCV
 PHTTRPKREYIDGRDYHFVSSREKMEKDIQAHKFEAGQYNHLYGTSVQSVREVAEQGKHCILDV SAN
 AVRRLQAAHLHPAIFIRPRSLNVLEINKRITEEQARKAFDRATKLEQEFTECFSAIVEGDSFEEIYHK
 VKRVIEDLSGPYIWWPARERL

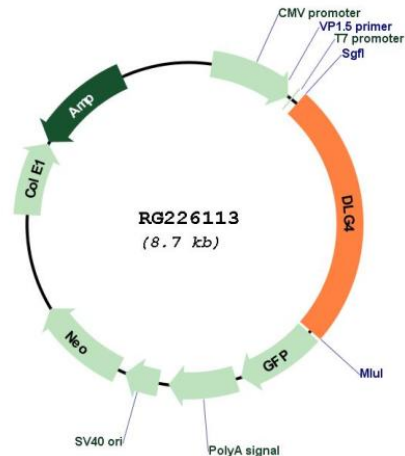
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001128827

ORF Size: 2163 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_001128827.3](#)

RefSeq Size: 3478 bp

RefSeq ORF: 2166 bp

Locus ID:	1742
UniProt ID:	P78352
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Huntington's disease
Gene Summary:	<p>This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family. It heteromultimerizes with another MAGUK protein, DLG2, and is recruited into NMDA receptor and potassium channel clusters. These two MAGUK proteins 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. [provided by RefSeq, Jul 2008]</p>