

Product datasheet for **RG215178**

PSD95 (DLG4) (NM_001365) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSD95 (DLG4) (NM_001365) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSD95
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:

>RG215178 representing NM_001365
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCAGAGACCAAGAGCTCCAGGTACGCCCTCTGGCTCCTGGCACCCCACTGCTGCGGTGGGCAC
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 TTCCCTCTCAGAGAGTCAGAAATACCGCTACCAAGATGAAGACACGCCCCCTCTGGAGCAGACGCCGGCC
 CACCTCCCAACCAAGGCAATTCTCCCCAGTGATTGTCAACACAGATACCCTAGAAGCCCCAGGATATG
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 AAGATCATTCTGGTGGGCTGCGGCCAGGATGGCCGCCTCAGGGTCAACGACAGCATCCTGTTGTAA
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 GTTGTCTACCTAAAGGTGGCCAAGCCAGCAATGCCTACCTGAGTGACAGCTATGCTCCCCAGACATCA
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 AGCAGGAGTTCACAGAGTGTCTCAGCCATCGTGGAGGTTGACAGCTTTGAGGAGATCTACCACAAGGT
 GAAGCGTGCATCGAGGACCTCTCAGGCCCTACATCTGGGTTCCAGCCCGAGAGAGACTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG215178 representing NM_001365
Red=Cloning site Green=Tags(s)

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MSQRPRAPRSALWLLAPLLRWAPLLTVLHSDLFQALLDILDYIEASLSESQKYRYQDEDTPPLEHSPA
HLPNQANSPPVIVNTDTLEAPGYELQVNGTEGEMEYEEITLERGNSGLGFSIAGGTDNPHIGDDPSIFIT
KIIPGAAAQDGRRLRVNDSILFVNEVDVREVTHSAAVEALKEAGSIVRLVYMRKPPEAEKVMIEIKLKG
KGLGFSIAGGVGNQHIPGDNSIYVTKIIEGGAHKDGRLLQIGDKILAVNSVGLDVMHEDAVAALKNTYD
VVYLKVAKPSNAYLSDSYAPPDITTSYSQHLDNEISHSSYLGTDYPTAMTPTSPRRYSPVAKDLLGEEDI
PREPRRIVIHRGSTGLGFNIVGGEDGEGIFISFILAGGPADLSEGLRKGQDQILSVNGVDLRNASHEQAAI
ALKNAGQTVTIIAQYKPEEYSRFEAKIHDLRQLMNSSLGSGTASLRSNPKRGFYIRALFDYDKTKDCGF
LSQALSFRFGDVLHVIDASDEEWQARRVHSDSETDDIGFIPSKRRVERREWSRLKAKDWGSSSGSQGRE
DSVLSEYETVTQMEVHYARPIIILGPTKDRANDLLSEFPDKFGSCVPHTTRPKREYIDGRDYHFVSSRE
KMEKDIQAHKFIEAGQYNHLYGTSVQSVREVAEQGKHCILDVSNANVRRLLQAHLHPAIAFIRPRLEN
VLEINKRITEEQARKAFDRATKLEQEFTECFSAIVEGDSFEEIYHKVKRVIEDLSGPYIWPVARELR
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001365

ORF Size: 2301 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_001365.1](#), [NP_001356.1](#)

RefSeq Size: 3995 bp

RefSeq ORF: 2304 bp

Locus ID: 1742

UniProt ID: [P78352](#)

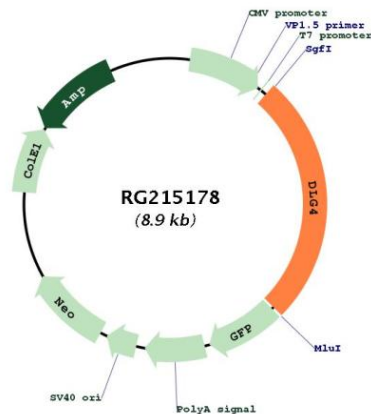
Cytogenetics: 17p13.1

Protein Families: Druggable Genome

Protein Pathways: Huntington's disease

Gene Summary: 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]

Product images:



Circular map for RG215178