

Product datasheet for **RR209927**

Dlg4 (NM_019621) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlg4 (NM_019621) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dlg4
Synonyms:	Dlgh4; PSD95; Sap90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR209927 representing NM_019621
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTGTCTGTATAGTGACAACCAAGAAATACCGCTACCAAGATGAAGACACGCCCCCTCTGGAAC
 ACAGCCCGGCCACCTCCCAACCAGGCCAATTCTCCCCCTGTGATTGTCAACACGACACCCTAGAAGC
 CCCAGGATATGAGTTGCAGGTGAATGGAACAGAGGGGAGATGGAGTATGAGGAGATCACATTGGAAGG
 GGTAACTCAGGTCTGGGCTTCAGCATCGCAGGTGGCACTGACAACCCGCACATCGGTGACGACCCGTCCA
 TTTTTATACCAAGATCATTCTGGTGGGGCTGCAGCCAGGATGGCCGCCTCAGGGTCAATGACAGCAT
 CCTGTTTGTAAATGAAGTGGATGTTGCGGAGGTGACCCATTGAGTGGGTGGAGGCCCTCAAAGAGGCA
 GGTTCATCGTTCGCCTCTATGTCATGCGCCGAAACCCAGCCGAAAAGGTGATGGAGATCAAATCA
 TCAAAGGGCCTAAAGGACTTGGCTTCAGCATTGCGGGGGCGTTGGGAACCAGCACATCCCTGGAGATAA
 CAGCATCTATGTAAAGGATCATCGAAGGAGGTGCTGCCACAAGGATGGCAGGTTGCAGATTGGAGAC
 AAGATCCTGGCGGTCAACAGTGTGGGGCTGGAGGACGTCATGCACGAGGATGCCGTGGCAGCCCTGAAGA
 ACACATATGACGTTGTGTACCTAAAGGTGGCCAAGCCAGCAATGCCTACCTGAGTGACAGCTATGCTCC
 CCCAGACATCACAACTCGTATTCTCAGCACCTGGACAATGAGATCAGTCATAGCAGCTACTTGGGCACT
 GACTACCCACAGCCATGACCCCACTTCCCCTCGGCGCTACTCCCCTGTGGCCAAGGACCTGCTGGGGG
 AGGAAGACATCCCCGGGAACCAAGCGGATCGTGATCCATCGGGGCTCCACCGGCTGGGCTTCAACAT
 CGTGGGCGGCGAGGATGGTGAAGGCATCTTCATCTCCTTTCATCCTTGTGGGGTCCAGCCGACCTCAGT
 GGGGAGCTACGGAAGGGGACCAGATCCTGTCGGTCAATGGTGTGACCTCCGCAATGCCAGTCACGAAC
 AGGCTGCCATTGCCCTGAAGAATGCGGGTCAGACGGTCACGATCATCGCTCAGTATAAACAGAGAGTA
 TAGTCGATTGAGGCAAGATCCATGATCTTCGGGAACAGCTCATGAATAGTAGCCTAGGCTCAGGGACT
 GCATCCTTGCAGCAACCCCAAGAGGGCTTCTACATTAGGGCCCTGTTTGATTACGACAAGACCAAGG
 ACTGCGGTTTCTGAGCCAGGCCCTGAGCTTCCGCTTCGGGGATGTGCTTTCATGTCATTGACGCTGGTGA
 CGAAGAGTGGTGGCAAGCACGGCGGCTCCACTCCGACAGTGAGACCGACGACATTGGCTTATTCCAGC
 AAACGGCGGGTCGAGCGACGAGAGTGGTCAAGGTTAAAGGCCAAGGACTGGGGCTCCAGCTCTGGATCAC
 AGGTCGAGAAGACTCGGTTCTGAGCTATGAGACGGTGACCCAGATGGAAGTGCATATGCTCGTCCCAT
 CATCATCCTTGGACCCACAAAGACCGTGCCAACGATGATCTTCTCCTCGAGTTCCTCCGACAAGTTTGA
 TCCTGTGTCCCTCATACGACACGTCCTAAGCGGAATATGAGATAGACGCGCGGATTACCACTTTGTCT
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 CCTCTATGGGACCAGCTCCAGTCTGTGCGAGAGGTAGCAGAGCAGGGGAAGCACTGCATCCTCGATGTC
 TCGGCCAATGCCGTGCGGCGGCTGCAGGCGGCCACCTGCACCCCATCGCCATCTTCATCCGTCCCCGCT
 CCCTGGAGAATGTGCTAGAGATCAATAAGCGGATCACAGAGGAGCAAGCCCGAAAGCCTTCGACAGAGC
 CACGAAGCTGGAGCAGGAGTTCACAGAGTGCTTCTCAGCCATCGTAGAGGGCGACAGCTTTGAAGAGATC
 TATCACAAGTGAACGTGTCATTGAAGACCTCTCAGGCCCTACATCTGGGTCCCAGCCCGAGAGAGAC
 TC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR209927 representing NM_019621
Red=Cloning site Green=Tags(s)

MDCLCIVTTKKYRYQDEDTPPLEHSPAHLPNQANSPPVIVNTDTLEAPGYELQVNGTEGEMEYEEITLER
 GNSGLGFSIAGGTDNPHIGDDPSIFITKIIPGGAAAQDGRRLRVNDSILFVNEVDVREVTSHA AVEALKEA
 GSIVRLVYMRKPPAEKVMEIKLIKGPKGLGFSIAGGVGNQHIPGDNSIYVTKIIEGGAHKDGRLLQIGD
 KILAVNSVGLLEDVMHEDAVAALKNTYDVVYLKVAKPSNAYLSDSYAPPDITTSYSQHLDNEISHSSYLGT
 DYPTAMTPTSPRRYSPVAKDLLGEEDIIPREPRRIVIHGSGTGLGFNIVGGEDGEGIFISFILAGGPADLS
 GELRKGQDQILSVNGVDLRNASHEQAAIALKNAGQTVTIIAQYKPEEYSRFEAKIHLREQLMNSSLGSST
 ASLRSNPKRGFYIRALFDYDKTKDCGFLSQUALSFRFGDVLHVIDAGDEEWWQARRVHSDSETDDIGFIPS
 KRRVERREWSRLKAKDWGSSSGSQGREDSVLSYETVTQMEVHYARPIIILGPTKDRANDLLSEFPDKFG
 SCVPHTTRPKREYIDGRDYHFVSSREKMEKDIQAHKFEAGQYNHLYGTSVQSVREVAEQGKHCILDV
 SANAVRRLQAHLHPAIFIRPRLENVLEINKRITTEEQARKAFDRATKLEQEFTECFSAIVEGDSFEEI
 YHKVKRVIEDLSGPYIWPARERL

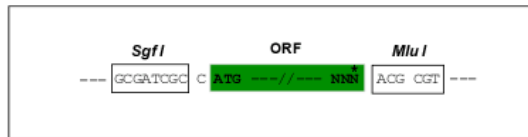
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019621

ORF Size: 2172 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_019621.1](#), [NP_062567.1](#)

RefSeq Size: 3083 bp

RefSeq ORF: 2175 bp

Locus ID: 29495

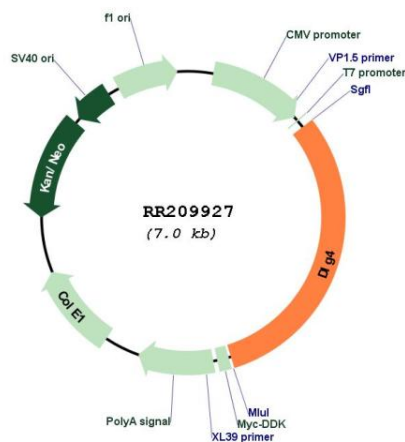
UniProt ID: [P31016](#)

Cytogenetics: 10q24

MW: 80.5 kDa

Gene Summary: a molecular scaffolding protein that binds and clusters N-methyl-D-aspartate receptors at neuronal synapses; may be involved in guanine nucleotide-mediated signal transduction pathway [RGD, Feb 2006]

Product images:



Circular map for RR209927