

Product datasheet for **MC229016**

Dlg1 (NM_001252436) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Dlg1 (NM_001252436) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Dlg1 |
| Synonyms: | B130052P05Rik; Dlg1; E-dlg/SAP97; mKIAA4187; SAP-97; SAP97 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC229016 representing NM_001252436
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATTACATTTTCGGAACAACACACTTCTGTACTCTCGGCCAGTCGAGGAGCAATGCTAGCTCTA
 GCCATGGCTCAGTAGGCCCTAAGCAGAAACACTGGGCAAAAAGGGCTCGTCAGATGAACCTGCAAGCCGA
 GCCAGAGCCTTCCCGCTGGCAGCAGATAGTTGCATTCTTCACTCGAAGACACAGCTTTATTGACTGCATC
 TCGGTAGCCACCAGCTCCACCCAGCCACAGAAGCTGTTCCCTCCCTCTCCATTGTCCCTGTGACCC
 CTGCCCTGCCAGTCCCTGCTGAGAGTACTGTGCTCCTGCCCTCCGACCACAGGCAATCCTCCTCAGT
 GCTGGTCAACACAGACAGCTTAGAGACACCACTTATGTTAATGGCACTGATGCAGATTATGAATATGAG
 GAAATCACACTTGAAAGGGGAAATTCGGGTCTTGGTTTCAGCATTGCAGGAGGTACAGACAACCCACACA
 TTGGAGATGACTCAAGTATTTTCATCACAAAATTATCACAGGCGGAGCGGCTGCCAGGATGGAAGATT
 GCGGGTAAATGACTGTATACTGAGAGTAAATGAAGCAGACGTTCTGTGATGAACCCACAGCAAAGCAGTG
 GAGGCATTAAGAAGCTGGATCTATTGTGCGATTGTATGTGAAAAGGCGGAAGCCAGCATCAGAAAAAA
 TCATGGAATAAAGCTCATTAAAGGTCCTAAAGGTCCTAAAGGTCCTGGGTTACGATTGCTGGAGGTGTTGAAATCA
 GCACATTCCTGGTGATAACAGCATCTATGTAACAAAAAATTAAGGAGGTGCAGCACACAAGGATGGC
 AAGCTTCAGATTGGAGATAAGCTTCTAGCAGTGAACAGTGTGTGTTAGAGAAGTTACTCATGAAGAAG
 CAGTGACTGCCTTAAAGAATACATCTGATTTTGTTTATTTGAAAGTGGCAAAAACCAAGTATGTATAT
 AAATGATGGCTATGCACCACCTGACATCACTAATCTTCTTCTCAATCTGTTGACAACCATGTGACGCCG
 TCCTCCTGCTTGGGCCAGACGCCAACGTACCAGCCAGTACTCACCCATTTCTAAAGCTGTGCTCGGAG
 ATGACAGACTCACTAGGGAACCTAGAAAAGTTGTTCTTCATCGTGGCTCAACAGGACTTGGTTTTAACAT
 TGTGGGAGGTGAAGATGGAGAAGGGATTTTATCTCCTTCATCCTTGTCTGGCGGACCTGCTGATCTAAGT
 GGAGAGCTCAGAAAAGGAGATCGCATCATATCGGTGAACAGTGTGACCTCAGAGCTGCAAGTCACGAAC
 AAGCAGCAGCTGCACTAAAGAACGCAGGCCAAGCCGTACCATCGTTGCGCAATATCGACCCGAAGAGTA
 CAGTCGTTTTGAAGCTAAATCCATGACTTACGGGAGCAGATGATGAATAGCAGTGTGAGTTGAGGGTCA
 GGGTCTCTTGAACCCAGCCAGAAGCGCTCCCTCTATGTCAGAGCCCTCTTTGATTATGACAAGACTAAGG
 ACAGCGGGCTTCCAGTCAAGGACTGAACCTCCGCTTTGGAGACATCCTCCATGTCATCAATGCTTCTGA
 CGACGAGTGGTGGCAAGCCAGGCAGTCAACCCAGACGGGAGAGTGACGAAGTCGGAGTGATTCTAGT
 AAACGAAGAGTTGAGAAGAAGGAACGAGCCGATTAACAAACGGTCAAATTCATTTCTAAAACAAGAGGAG
 ATAAAGGGGAGATCCCTGACGACATGGGATCAAAGGCCTGAAGCACGTAACCTTCAATGCCAGCGATAG
 TGAAGTAGTTACCTAATCTTGATTACAGATGAATATGGCTGCTCAAAGGTGGTCAAGAAGAATATGTT
 TTATCTTATGAGCCAGTGAATCAACAAGAAGTTAATTATACCCGACCAGTCATCATATTAGGACCTATGA
 AAGACAGAGTAAATGATGACTTAATCTCAGAATTCCTGACAAATTTGGATCCTGTGTCCCTCATACAAC
 TAGACCGAAGCGTGACTATGAGGTGGATGGACGAGATTATCATTTTGTGACTTCAAGGGAACAGATGGAA
 AAGGATATTCAGGAGCATAAGTTCATTGAAGCCGGCCAGTATAACAACCATCTGTATGGGACGAGCGTGC
 AGTCCGTGCGAGCAGTGGCAGAGAAGGGCAACATTGTATCCTTGATGTGTCTGGAAATGCCATAAAGAG
 GTTGACAGATTGCACAGCTTATCCAATATCTATTTTTATTAACCCAAATCCATGGAAAAATCATGGAA
 ATGAACAAGCGCCTAACAGAAGAGCAGGCCAGAAAAACATTTGAGAGAGCCATGAAGCTGGAGCAGGAGT
 TCACTGAGCATTTACAGCTATTGTCCAGGAGACACGCTGGAGGACATTTACAACCAAGTGAACAGAT
 CATCGAAGAACAGTCTGGGCCTTACATCTGGGTCCCAGCGAAAAGAAAAGCTAT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001252436
Insert Size: 2505 bp

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| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| OTI Annotation: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM_001252436.1</u> , <u>NP_001239365.1</u> |
| RefSeq Size: | 4513 bp |
| RefSeq ORF: | 2505 bp |
| Locus ID: | 13383 |
| Cytogenetics: | 16 22.4 cM |
| Gene Summary: | <p>Essential multidomain scaffolding protein required for normal development. Recruits channels, receptors and signaling molecules to discrete plasma membrane domains in polarized cells. Regulates the excitability of cardiac myocytes by modulating the functional expression of Kv4 channels (By similarity). Functional regulator of Kv1.5 channel (By similarity). May play a role in adherens junction assembly, signal transduction, cell proliferation, synaptogenesis and lymphocyte activation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR and has multiple differences in the coding region, including the use of an alternate start codon, compared to variant 1. The encoded isoform (5) is shorter and has a distinct N-terminus, compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |