

Product datasheet for **MC229088**

Dlg1 (NM_001252434) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlg1 (NM_001252434) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dlg1
Synonyms:	B130052P05Rik; Dlg1; E-dlg/SAP97; mKIAA4187; SAP-97; SAP97
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229088 representing NM_001252434
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGTCCGGAAGCAAGATACCCAGAGAGCATTGCATCTGTTGGAAGAATATCGATCGAAACTAAGCC
 AAAGTGAAGACAGACAACCTCAGAAGTCCATAGAGCGGGTTATTAACATATTTTCAGAGCAACCTCTTTCA
 GGCTTTAATAGATATTCAGAATTTTATGAAGTGACCTTACTTGATAATCCAAAATGTGTGGATCATTCA
 AAGCAGTGTGAACCAGTTCAGCCTGTGACTACTTGGGAGATTGCCAGCCTTCCAAGCACTGCCGTGACGT
 CAGAAACCCTGCCCGCAGCCTTAGCCCTCCAGTAGAGAAATACCGGTATCAGGATGAAGAGGACTTCC
 TCCTGAGCATATTTCCACAAGTCACAAATGAGGTGCTAGGTCCAGAAGTGGTCCATGTCTCAGAGAAG
 AACCTGTCAGAGATTGAGAATGTCCATGGATTTGTTTCTATTCTCATATCTACCAATAAAGGCAAAATC
 CTCCTCCAGTGTGGTCAACACAGACAGCTTAGAGACCAACTTATGTTAATGGCACTGATGCAGATTA
 TGAATATGAGGAAATCACACTTGAAGGGGAAATTCGGGTCTTGGTTTCAGCATTGCAGGAGGTACAGAC
 AACCCACACATTGGAGATGACTCAAGTATTTTCATCACAAAATATCACAGGCGGAGCGCTGCCCAGG
 ATGGAAGATTGCCGGTAAATGACTGTATACTGAGAGTAAATGAAGCAGAGTTCGTGATGTAAACCCACAG
 CAAAGCAGTGGAGGCATTAAGAAGCTGGATCTATTGTGCGATTGTATGTGAAAAGCGGGAAGCCAGCA
 TCAGAAAAATCATGGAAATAAGCTCATTAAAGTCTTAAAGTCTTGGGTTTCAGCATTGCTGGAGGTG
 TTGAAATCAGCACATTCCTGGTGATAACAGCATCTATGTAACAAAAATAATTGAAGGAGGTGCAGCACA
 CAAGGATGGCAAGCTTCAGATTGGAGATAAGCTTCTAGCAGTGAACAGTGTGTGTTAGAAGAAGTTACT
 CATGAAGAAGCAGTACTGCCTTAAAGAATACATCTGATTTTGTATTGTTGAAAGTGGCAAAACCAACAA
 GTATGTATAAATGATGGCTATGCACCACCTGACATCACTAATCTTCTCAATCTGTTGACAAACCA
 TGTACGCCCGTCTCTGCTTGGGCCAGACGCCAACGTACCAGCCAGGTAATCACCCATTTCTAAAGCT
 GTGCTCGGAGATGACGAGATCACTAGGGAACCTAGAAAAGTTGTTCTTTCATCGTGGCTCAACAGGACTTG
 GTTTTAACTTGTGGGAGGTGAAGATGGAGAAGGGATTTTATCTCCTTCATCCTTGCTGGCGGACCTGC
 TGATCTAAGTGGAGAGCTCAGAAAAGGAGATCGCATCATATCGGTGAACAGTGTGACCTCAGAGCTGCA
 AGTCACGAACAAGCAGCAGCTGCACTAAAGAACGCAGGCCAAGCCGTACCATCGTTGCGCAATATCGAC
 CCGAAGAGTACAGTCGTTTTGAAGCTAAAATCCATGACTACGGGAGCAGATGATGAATAGCAGTGCAG
 TTCAGGGTCAGGGTCTCTTGAACCCAGCCAGAAGCGCTCCCTCTATGTCAGAGCCCTCTTGATTATGAC
 AAGACTAAGGACAGCGGGCTTCCAGTCAAGGACTGAACCTCCGCTTTGGAGACATCCTCCATGTATCA
 ATGCTTCTGACGACGAGTGGTGGCAAGCCAGGCAGGTACCCACAGCGGGGAGAGTGACGAAGTCCGAGT
 GATTCCTAGTAAACGAAGAGTTGAGAAGAAGGAACGAGCCGATTAACAAACGGTCAAATTCATTAATAA
 ACAAGAGGAGATAAAGGGGAGATCCCTGACGACATGGGATCAAAAGGCCTGAAGCAGTAACTTCTAATG
 CCAGCGATAGTAAAAGTAGTTACCGTGGTCAAGAAGAATATGTTTATCTTATGAGCCAGTGAATCAACA
 AGAAGTTAATTATACCCGACCAGTATCATATTAGGACCTATGAAAGACAGAGTAAATGATGACTTAATC
 TCAGAAATTTCTGACAAATTTGGATCCTGTGTCCCTCATACAAGTACCCGAAAGCGTACTATGAGGTGG
 ATGGACGAGATTATCATTTTGTGACTTCAAGGGAACAGATGGAAGGATATTGAGGAGCATAAGTTTCA
 TGAAGCCGCGCCAGTATAACAACCATCTGTATGGGACGAGCGTGCAGTCCGTGCGAGCAGTGGCAGAGAAG
 GGCAAAACATTGTATCCTTGATGTGTCTGAAAATGCCATAAAGAGTTGCAGATTGCACAGCTTTATCCAA
 TATCTATTTTTATTAAACCCAAATCCATGGAAAATATCATGAAAATGAACAAGCGCCTAACAGAAGAGCA
 GGCCAGAAAAACATTTGAGAGAGCCATGAAGCTGGAGCAGGAGTTCACTGAGCATTTACAGCTATTGTC
 CAGGGAGACACGCTGGAGGACATTTACAACCAAGTGAACAGATCATCGAAGAACAGTCTGGGCCTTACA
 TCTGGGTCCAGCGAAAGAAAAGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001252434

Insert Size:	2619 bp
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.
RefSeq:	<u>NM_001252434.1</u> , <u>NP_001239363.1</u>
RefSeq Size:	4612 bp
RefSeq ORF:	2619 bp
Locus ID:	13383
UniProt ID:	<u>Q811D0</u>
Cytogenetics:	16 22.4 cM
Gene Summary:	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] Transcript Variant: This variant (3) lacks two exons and includes an alternate exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1. 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.