

Product datasheet for **MR231361**

Dlg1 (NM_001252435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlg1 (NM_001252435) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR231361 representing NM_001252435
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGTCCGGAAGCAAGATACCCAGAGAGCATTGCATCTGTTGGAAGAATATCGATCGAAACTAAGCC
 AAAGTGAAGACAGACAACCTCAGAAGTCCATAGAGCGGGTTATTAACATATTTTCAGAGCAACCTCTTTCA
 GGCTTTAATAGATATTCAGAATTTTATGAAGTGACCTTACTTGATAATCCAAAATGTGTGGATCATTCA
 AAGCAGTGTGAACCAGTTCAGCCTGTGACTACTTGGGAGATTGCCAGCCTTCCAAGCACTGCCGTGACGT
 CAGAAACCCTGCCCGCAGCCTTAGCCCTCCAGTAGAGAAATACCGGTATCAGGATGAAGAGGACTTCC
 TCCTGAGCATATTTCTCCACAAGTCACAAATGAGGTGCTAGGTCCAGAACTGGTCCATGTCTCAGAGAAG
 AACCTGTCAGAGATTGAGAATGTCCATGGATTTGTTTCTATTCTCATATCTACCAATAAAGCCACAG
 AAGCTGTTCTCCCTCTCTCCATTGTCCCTGTGACCCCTGCCCTGCCAGTCCCTGCTGAGAGTACTGT
 CGTCTGCCCTCCGACCCACAGGCAAATCCTCCTCCAGTGTGGTCAACACAGACAGCTTAGAGACACCA
 ACTTATGTTAATGGCACTGATGCAGATTATGAATATGAGGAAATCACACTTGAAAGGGGAAATTCGGGTC
 TTGGTTTCAGCATTGCAGGAGGTACAGACAACCCACACATTGGAGATGACTCAAGTATTTTCATACCAA
 AATTATCACAGGCGGAGCGGCTGCCAGGATGGAAGATTGCGGGTAAATGACTGTATACTGAGAGTAAAT
 GAAGCAGACGTTCTGTGATGTAACCCACAGCAAAGCAGTGGAGGCATTAAGAAGCTGGATCTATTGTGC
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 TGAACAGTGTGTGTTAGAAGAAGTTACTCATGAAGAAGCAGTACTGCCTTAAAGAATACATCTGATTT
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 AGCCGTACCATCGTTGCGCAATATCGACCCGAAGAGTACAGTCTTTTTGAAGCTAAAATCCATGACTTA
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 TCTATGTCAGAGCCCTTTTATTATGACAAGACTAAGGACAGCGGGCTTCCAGTCAAGGACTGAACTT
 CCGCTTTGGAGACATCCTCCATGTCATCAATGCTTCTGACGACGAGTGGTGGCAAGCCAGGCAGGTCAAC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231361 representing NM_001252435
 Red=Cloning site Green=Tags(s)

MPVVRKQDTQRALHLLLEEYRSKLSQTEDRQLRSSIERVINIFQSNLFQALIDIQEFYEVTLTLDNPKCVDHS
 KQCEPVQPVTTWEIASLPSTAVTSETLPGSLSPVVEKYRYQDEEVLPEHISPQVTNEVLGPPELVHSEK
 NLSEIENVHGFVSHSHISPIKPTAEVPPSSPIVPTPALPVPAESTVVLPAPQANPPPVLVNTDSLETP
 TVYNGTDADYEYEEITLERGNSGLGFSIAGGTDNPHIGDDSSIFITKIIITGGAAAQDGRRLRVNDCILRVN
 EADVDRDVTHSKAVEALKEAGSIVRLYVRRRKPASEKIMEIKLIKGPKGLGFSIAGGVGNQHIPGDNSIYV
 TKIIEGGAHKDGLQIGDKLLAVNSVCLLEEVTHEEAVTALKNTSDFVYLKVAKPTSMYINDGYAPPDIT
 NSSSQSVDNHVSPSSCLGQTPTPARYSPISKAVLGDDEITREPRKVVLHRGSLGTFNIVGGEDGEGIF
 ISFILAGGPADLSGELRKGDRIIISVNSVDLRAASHEQAAAALKNAGQAVTIVAQYRPEEYSRFEAKIHD
 REQMMNSVSSGSLRTSQKRSLYVRALFDYDKTKDGLPSQGLNFRFGDILHVINASDDEWWQARQVT
 PDGESDEGVIPSKRRVEKKERARLKTVKFNSKTRGDKGEIPDDMGSKGLKHVTSNASDSESSYRQGEY
 VLSYEPVNQQEVNYTRPVIILGPMKDRVNDLISEFPDKFGSCVPHTTRPKRDYEVDRDYHFVTSREQM
 EKDIQEHKFI EAGQYNNHLYGTSVQSVRAAEKGGKHCILDVSGNAIKRLQIAQLYPI SIFIKPKSMENIM
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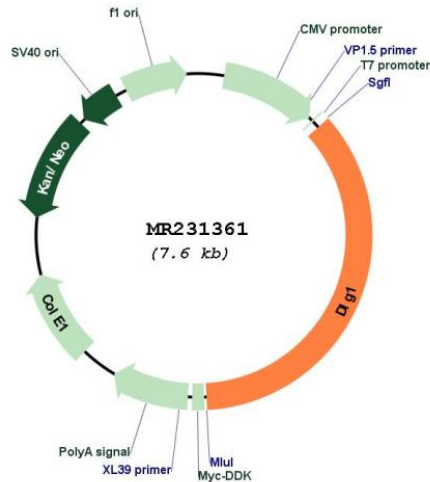
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001252435

ORF Size: 2715 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_001252435.1](#), [NP_001239364.1](#)

RefSeq Size: 4370 bp

RefSeq ORF: 2718 bp

Locus ID: 13383

UniProt ID: [Q811D0](#)

Cytogenetics: 16 22.4 cM

MW: 100.6 kDa

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]