

Product datasheet for **MC223401**

Dlgap2 (NM_001145965) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlgap2 (NM_001145965) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dlgap2
Synonyms:	6430596N04Rik; Dap-2; Dap2; Sapap2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223401 representing NM_001145965 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGTCTGCTCTGAGGAAGTTCTGCCGGCATCCTGCAGAAGCATTGCTGCATCTTACCAGACAGGAACA
CAGAGTCTCAGTGCACCCCTTTGTGGAGAGCCAGAAGAGGAGGAAGGAGGAGACTTGGCCAGCCGGCCCT
CAGCTTCCGGGTCCAGCAGAAGAGGACATAGACCAGCAGTACTCATGGTCTCCAACGCAGCACTTCAAT
GAAGAGAGGTACTCACCCGCACCCAGGAACATGAAAGGGTTAACCAGGAAGCCGGAACAGCCTCAGCTGT
GTGCGGGTCACACCTGTGGCCTGTACCCCTGATGACTGCGAGCACCCCATGATCACATGCATCATGG
GTCAGATGTGCGGCAGCCTTATCTCTTAGCCAGCTGAGAGCTGCCAATGGACCACCACCGTTGCTCG
CCCAGGAGCTCCGTCCACTCAGAGTGCATGATGATGCCTGTGATGTTGGGTGACCACGTATCCAGTAGCA
CCTTCCCTAGAATGCACTACAGCTCACACTATGACACAAGGGATGATTGCGCCATGTCCACACAAGTAC
AAAGGTAACCGCATCCCGCCAACCTCTTAGACCAGTTTGAGAAACAGCTCCCCCTGCACCGGGATGGT
GGCATTGGTCCACTCCGTTTCAGAACTTTTACCAAGTCTCATTCTTTGGAGGGATCGTCCAAGAGCAA
CATCAATGGGACCAAGAGTGACAGTCGTGTGGATGACCACCAGAGTACCTTTCCAACACAGCAAA
AGGAGTAAAAGCAAGGAGCGGAAGCCAGAGAGCAAGCACAAAGTCTGGTATGAGCAGCTGGTGGAGTTCTG
ACGACAACCTGGACAGTGACAGCACATACCGGACACCCAGCGTGGCGCACCGCCACCACATGGACCACAT
TCCCCACTGCTACCCTGAGGCGCTGCAGAGCCATTTGGGGACCTCTCACTAAAGACTTCCAAAAGCAAC
AACGATGTTAAGTGCTCAGCCTGTGAAGCTTGGCCCTCACGCCAGACACCAGGTACATGAAACGTAGCT
CCTGGTCCACGCTCACGGTGAGCCAGGCTAAGGAGGCTACCGCAAGAGCTCCCTGAACTTGACAAGCC
CCTGGTCCACCCAGAGATCAAGCCTTCCCTGCGCCATGCCACTACCTCCAGGTGCCTCAGGACGATTGG
GGTGCCTACCCACAGGCGCAAAGAGGAGGAGATACCCTGCCGTAGGATGAGGAGCGGCAGCTACATAA
AAGCCATGGGTGACGAGGAGAGTGGGGAGTCAGACTCCAGCCCCAAAACATCCCCGACGGTGGCCATCCG
GCCGGAGCCGCTGCTGAAGCCATCATACAAAGACCCTTGAGAGACCACAAACCCAGAGCTACCTACAA
GCTGCCACTGAGGTGCCTGTCGGTCACAGCCTGAACCCATCAATCAACTACAACCTCCGAAGTCCGGT



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CCAGAAACCAGAGCTACATGCGGGCTGTGAGCACCCCTGAGCCAGGCCAGCTGTGTGAGCCAGATGAGTGA
 AGCGGAAGTTAACGGGCAGTTCGAGTCTGTATGTGAATCTGTCTTCAGTGAAGTTGAATCTCAGGCCATG
 GATGCTCTTGACCTTCTGGGTGTTCCGAACAAGGAGTCACAGTTACCTTCGAGCCATCCAAGCTGGTT
 ACTCCCAAGACGATGAATGTATCCCGTGATGACATCATCCAACATGACGTCAACCATCAGGTCAACAGC
 AGCTGTCTCTACACAAATACAAGAAGACGCCTCCCCGGTGCCTCCACGGACCCTCCAAGCCTCTG
 ATCTCTGTGACGGCCAGAGCAGCACGGAATCGACACAGGATGCCTACCAGGACAGCCGTGCCAGAGGA
 TGTCCTGGCCCCAAGATAGCCGTGGCGCCCTCACTCAACTCCATGGACAGTCTAGACAGCAACAAGGC
 CATGAATTTGGCTCTGGAAACAGCTGCAGCCAGCGCCACGCGGGGACACCCAGAGCAGCTCCACACGG
 AGCATCGACAAGCGGTCTGGCATCCAAGGCTGAAGAGCTCCTGAAAAGTCGCTGCTCCTCCATCGGGG
 TCCAGGATTCTGAATTCCTCGATCATCAACCCTACCCAAGGTCAGATGTAGAAACAGCCACGGATTCCGA
 CACGGAGAGCAGAGGCCTAAGGGAGTACCCTCTGTTGGTGTGCAAGTAGAAGACGAAAAACGGCACGGC
 CGTTTCAAGCGTCCAACAGCGTCACAGCCGCTGTGCAGGCTGACTTAGAGCTGGAGGGTTTCCCTGGG
 ATGTCAGCATGGAGGACAAGGGCTGCAGTTCGGATCCTCCTTCAACGACATTCGGAGCCAGTACCCC
 GACCCAGTATGGGGCACTGAGGACTGTGCGGACGCAGGGCCTTTCAGTTACAGGGAGGACTACAGGACA
 CAGGTGGACACTTCTACTCTGCCACCACCGGATCCCTGGCTGGAGCCATCCCTGGACACGGTGGAGACCG
 GGAGGATGCTCCGTGCCGGAGAGATGGCTCGTGGTTTCTGAAACTGCTGCACACGGAGACGAAGAGGAT
 GGAAGGCTGGTGCAAAGAGATGGAGAGAGAAGCAGAGGAGAATGACCTCTTGAAGACATTCTAGGAAA
 ATCAGGAGTGCTGTAGGAAGTGCTCAGCTGCTCATGTCCAGAAGTTCAGCAGTTTTACTGGCTTTGTC
 AGCAGAACATGGACCCAGCGCCATGCCAAGACCCACCTCACAGGATCTAGCTGGCTATTGGGATATGCT
 GCAGCTGTCTGTGAAGATGTCAGCATGAAGTTTGACGAGCTGCACCAGCTGAAGCTCAATGACTGGAAG
 ATAATAGAGTCACCCGAAAGAAAGGAAGAAAGGAAGATCCCCCTCCAATACCAAAGAAGCCCCCAAGG
 GGAAATCCCCATCACGAGGGAAAAGTCTTGGACCTGCCAGACAGACAGCGCCAGGAAGCCCGGCCCG
 GCTCATGGCAGCCAAGAGAGCCGCTCGTTCGCCAGAACTCTGCTACGGAGAGGGCAGACAGCATCGAG
 ATCTACATCCCTGAGGCCAGACGCGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001145965
- Insert Size:** 3183 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).
- 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_001145965.1](#), [NP_001139437.1](#)
- RefSeq Size:** 4426 bp

RefSeq ORF: 3183 bp

Locus ID: 244310

UniProt ID: [Q8BJ42](#)

Cytogenetics: 8 A1.1

Gene Summary: May play a role in the molecular organization of synapses and neuronal cell signaling. Could be an adapter protein linking ion channel to the subsynaptic cytoskeleton. May induce enrichment of PSD-95/SAP90 at the plasma membrane.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an internal exon in the 5' region, which results in an upstream AUG start codon, as compared to variant 1. The resulting isoform (2) has a different and one amino acid longer N-terminus, as compared to isoform 1.