

## Product datasheet for **RN202516**

### **Dlgap1 (NM\_022946) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dlgap1 (NM_022946) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dlgap1
Synonyms:	DAP-1; Gkap; GKAP/SAPAP1; rGKAP; SAPAP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN202516 representing NM_022946 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAAGGGTTATCGGGTAGCCGACGCCACCACCATGGGATCACCTGTGAGTCGGCCTGTGACTCCTTGT  
CACACCATTAGACCACAAGCCGTACCTGCTGAGCCCGGTAGACCACCACCTGCGGACCATCCCTACTA  
CACCCAGCGGAATCTTTCCAGGCCGAGTGTGTGGGGCCCTTCAGCGACCCTCTGGCCAGCAGCACCTTC  
CCGCGCAGGCACTACACCTCTCAGCAGGAGCTGAAGGACGAGAGTGCCCTGGTGCCGCGCACACTGGCCA  
CCAAGGCGAATCGCCTCCCCACCAACCTGCTGGATCAGTTTGAGAGGCAGCTGCCCTCAGCCGAGATGG  
CTATCACACGCTACAGTACAAGCGCACCGCTGTGGAGCATCGCAGCGATAGCCCCGGCCGCATCCGGCAC  
CTGGTCCACTCGGTCCAGAAGCTCTTACCAAGTCTCATTCCCTGGAGGGGCCATCCAAAGGCGGCGTCA  
ATGGGGGCAAGGCCAGCCCTGACGGGTGCGAACTGTGAGATATGGCAAGCGCAGCAAGAGCAAGGAGAG  
ACGGTCAGAGCCCAAGGCTAGATCCAATGCCTCTAACGCCTCCCCGACCTCTCCAGCTGGTGGAGCTCG  
GATGACAACCTGGATGGGACATGTGCCTCTACCACGCCATCAGGTGTGATGACCATGGTAGGTGCC  
CTGACCGCTCTGCTTCTCAGTACTTCATGGAGGCCTACAACCCATCAGCGAGCAGGCAGTGAAGGCCTC  
CCGGAGTAAACAACGACGTCAAGTGTCCACCTGTGCTAACCTGCCAGTCAGCTGGATGCCCACTTCTG  
AAGAAGAGTGCCTGGTCTCCACTCTCACCGTGAGCAGAGCCGAGAGGTTTATCAGAAAGCCTCAGTGA  
ACATGGATCAGGCCGTGGTGAAGTCGGAGGCTTGTCAACAAGAGCGGTATGCCAGTACCTACAGTTCC  
CCAGGATGAATGGACAGGTTACACGCTCGCGGAAAGACGACGAGATCCCGTGCCGGAGGATGCGCAGT  
GGCAGCTACATCAAAGCCATGGGGATGAGGACAGCGGGACTCGGACACGAGCCCCAAGCCATCTCCTA  
AGGTGGCTGCAAGAAGAGAAAGCTATCTCAAGGCCACACGCCATCCCTTACAGAGCTCACCACCCTCAA  
GATCTCCAACGAACACTCCCCAACTCCAGATCCGGAGTCACAGCTACCTGAGGGCAGTAAAGTGAAGTC  
TCCATTAACAGAAGCCTGGACAGCCTGGATCCTGCAGGCTTGCTCACGTACCAAAGTTCGGCTCCAGAA  
ACGAGAGCTACATGCGAGCTATGAGACCATAAGCCAGGTGAGCGAGATGGAGGTGAACGGACAGTTTCGA  
ATCCGATGCGAGTCTGTGTTACGCGAACTGGAGTCGACAGGCGGTGGAAGCGCTGGACCTGCCATCGCT  
GGCTGTTCCGCATGCGGAGCCATAGCTACGTGCGGGCTATCGAGAAGGGCTGCTCCAGGATGATGAGT



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CGGTGTCGCTGAGGTCGTCTCCCTCCACGCACAACCACCACCGTGAGGACCATCCAGAGTAGCACCGG  
 TGTCAAAAAGTCTGAGTTCTGCCGTTGAAGTGTCATCTTGCAATACAACATATAAGAAGACACCACCTCCA  
 GTCACCCAGAACTACCACGAAACCTTTCATTCTATCACAGCCAGAGTAGCACAGAGTCCGCGCAGG  
 ATGCTACATGGACGGCAAGGCCAGCGCGGGGACATGATCAGCCAGTCTGGCCTCAGCAACTCCACCGA  
 AAGTCTGGACAGTATGAAGGCTCTCACGGCTGCCATCGAGGCTGCAAACGCGCAGATCCACGGCCCGCA  
 AGTCAACACATGGGCAGCAACGCTGCTGCCCTCACCACCACCACCACCATAGCCACTGTCACCACCGAGG  
 ACAGGAAGAAAGACTTTAAGAAAAACAGATGCCTATCTATTGGGATACAGGTGGACGACGCCGAAGAGTC  
 AGAGAAAATGGCAGAGAGTAAGACGTCCAGTAAGTTCCAGTCCGTGGGAGTGCAAGTAGAAGAGGAGAAG  
 TGCTCCGCGAGGTTCACTCGGTCCAACAGTGTAACGACTGCAGTACAGGCTGACCTGGACTTCCATGATA  
 ATCTGGAAAATTCTGAGTCTATAGAGGACAATTCTGTGCCGCGCCAATGGCCAGACAGTTCTCGCG  
 AGATGCCAGCACCTCTACCGTCAGTATCCAGGTTTCAGGAAACCACTACCATGCCTGTGCAGCCGACGAT  
 GACTTTGACACGGATTTGACCCCTCTATCCTGCCTCCTCCGACCCCTGGATTGACTCTATCACAGAAG  
 ACCCTCTGGAGGCGTTCAAAGGTCCGTGTGCCACCGGGACGGCCACTGGTTCTGAAGCTTCTCCAGGC  
 AGAGCGAGACCGCATGGAAGGTTGGTCAAGCAAATGGAGAGAGAAGAGAGGGAAAAACAACCTCCAGAA  
 GACATTCTAGGGAAAATCAGAACCGCGTGGGCGAGTCCAGCTTCTCATGGCGCAGAAAATCTACCAGT  
 TCAGAGAACTGTGTGAAGAGAACCTGAATCCCAATGCTCACCCGAGACCACTTCCAGGATTTGGCGGG  
 GTTTTGGGACATGCTGCAGTTGCCATAGAAAACATTAGTATGAAATTTGATGAACCTTATCAGTTAAAG  
 GCCAATAATTGGAACAGATGGATCCTCTTGACAAGAAGGAGCGAAGGGCCCTCCTCCAGTGCCAAAGA  
 AGCCGCGAAGGGCCCGCGCGGTTGATCCGGGAGCGCTCGTGGAGAGCTCGCAGCGCCAGGAGGCCCG  
 CAAGCGCTGATGGCCGCAAGCGCGCAGCATCAGTCCGCCAGAACTCGGCCACCCAGAGCGCCGAGAGC  
 ATCGAGATCTACATCCCCGAGGCGCAGACCCGGCTTGA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_022946
- Insert Size:** 2979 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\\_022946.3](#), [NP\\_075235.3](#)
- RefSeq Size:** 6417 bp
- RefSeq ORF:** 2979 bp
- Locus ID:** 65040

**Cytogenetics:** 9q38

**Gene Summary:** binds the guanylate kinase-like domain of the PSD-95 family of synaptic ion channel clustering proteins; may play a role in protein-protein interactions at the synaptic junction [RGD, Feb 2006]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from genomic sequence data because no single transcript from the reference strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.