

## Product datasheet for **RR202516**

### Dlgap1 (NM\_022946) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dlgap1 (NM\_022946) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dlgap1  
**Synonyms:** DAP-1; Gkap; GKAP/SAPAP1; rGKAP; SAPAP1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR202516 representing NM\_022946  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAAGGGTTATCGGGTAGCCGACGCCACCACCATGGGATCACCTGTGAGTCGGCCTGTGACTCCTTGT  
CACACCATTAGACCACAAGCCGTACCTGCTGAGCCCGGTAGACCACCACCTGCGGACCATCCCTACTA  
CACCCAGCGGAATCTTTCCAGGCCGAGTGTGTGGGGCCCTTCAGCGACCCTCTGGCCAGCAGCACCTTC  
CCGCGCAGGCACTACACCTCTCAGCAGGAGCTGAAGGACGAGAGTGCCCTGGTGCCGCGCACACTGGCCA  
CCAAGGCGAATCGCCTCCCCACCAACCTGCTGGATCAGTTTGAGAGGCAGCTGCCCTCAGCCGAGATGG  
CTATCACACGCTACAGTACAAGCGCACCCGCTGTGGAGCATCGCAGCGATAGCCCCGGCCGCATCCGGCAC  
CTGGTCCACTCGGTCCAGAAGCTCTTACCAAGTCTCATTCCCTGGAGGGGCCATCCAAAGGCGGCGTCA  
ATGGGGGCAAGGCCAGCCCTGACGGGTGCGAACTGTGAGATATGGCAAGCGCAGCAAGAGCAAGGAGAG  
ACGGTCAGAGCCCAAGGCTAGATCCAATGCCTCTAACGCCTCCCCGACCTCTCCAGCTGGTGGAGCTCG  
GATGACAACTGGATGGGACATGTGCCTCTACCACAGCCATCAGGTGTGATGACCATGGTAGGTGCC  
CTGACCGCTCTGCTTCTCAGTACTTCATGGAGGCCTACAACCCATCAGCGAGCAGGCAGTGAAGGCCTC  
CCGGAGTAAACAACGACGTCAAGTGTCCACCTGTGCTAACCTGCCAGTACGCTGGATGCCCACTCTG  
AAGAAGAGTGCCTGGTCTCCACTCTCACCGTGAGCAGAGCCGAGAGGTTTATCAGAAAGCCTCAGTGA  
ACATGGATCAGGCCGTGGTGAAGTCGGAGGCTTGTCAACAAGAGCGGTATGCCAGTACCTACAGTTCC  
CCAGGATGAATGGACAGGTTACACGCTCGCGGAAAGACGACGAGATCCCGTGCCGGAGGATGCGCAGT  
GGCAGCTACATCAAAGCCATGGGGATGAGGACAGCGGGACTCGGACACGAGCCCCAAGCCATCTCCTA  
AGGTGGTGAAGAAGAGAAAGCTATCTCAAGGCCACACGCCATCCCTTACAGAGCTCACCACCCTCAA  
GATCTCCAACGAACACTCCCCAACTCCAGATCCGGAGTACAGCTACCTGAGGGCAGTAAAGTGAAGTC  
TCCATTAACAGAAGCCTGGACAGCCTGGATCCTGCAGGCTTGCTCACGTACCAAAGTTCGGCTCCAGAA  
ACGAGAGCTACATGCGAGCTATGAGACCATAAGCCAGGTGAGCGAGATGGAGGTGAACGGACAGTTCGA  
ATCCGATGCGAGTCTGTGTTACGCGAACTGGAGTTCGAGGCGGTGGAAGCGCTGGACCTGCCATCGCT  
GGCTGTTCCGCATGCGGAGCCATAGCTACGTGCGGGCTATCGAGAAGGGCTGCTCCAGGATGATGAGT



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CGGTGTCGCTGAGGTCGTCTCCCTCCACGCACAACCACCACCGTGAGGACCATCCAGAGTAGCACCGG  
 TGTCAAAAAGTCTGAGTTCTGCCGTTGAAGTGTCTTGCATTACAACATATAAGAAGACACCACCTCCA  
 GTCCCACCAGAACTACCACGAAACCTTTCATTCTATCACAGCCAGAGTAGCACAGAGTCCGCGCAGG  
 ATGCTACATGGACGGCAAGGCCAGCGCGGGGACATGATCAGCCAGTCTGGCCTCAGCAACTCCACCGA  
 AAGTCTGGACAGTATGAAGGCTCTCAGGCTGCCATCGAGGCTGCAAACGCGCAGATCCACGGCCGGCA  
 AGTCAACACATGGGCAGCAACGCTGCTGCCCTCACCACCACCACCATAGCCACTGTCACCACCGAGG  
 ACAGAAAGAAAGACTTTAAGAAAAACAGATGCCTATCTATTGGGATACAGTGGACGACGCCGAAGAGT  
 AGAGAAAATGGCAGAGAGTAAGACGTCCAGTAAGTTCCAGTCCGTGGGAGTGCAAGTAGAAGAGGAGAAG  
 TGCTTCCGCAGGTTCACTCGGTCCAACAGTGTAACGACTGCAGTACAGGCTGACCTGGACTTCCATGATA  
 ATCTGGAAAATTCTGAGTCTATAGAGGACAATTCTGTGCCGCGCCAATGGCCAGACAGTTCTCGCG  
 AGATGCCAGCACCTTACCCTCAGTATCCAGGTTTCAGGAAACCACTACCATGCCTGTGCAGCCGACGAT  
 GACTTTGACACGGATTTGACCCCTCTATCCTGCCTCCTCCGACCCCTGGATTGACTCTATCACAGAAG  
 ACCCTCTGGAGGCGTTCAAAGGTCCGTGTGCCACCGGGACGGCCACTGGTTCTGAAGCTTCTCCAGGC  
 AGAGCGAGACCGCATGGAAGGTTGGTCAAGCAAATGGAGAGAGAAGAGAGGGAAAAACAACCTCCAGAA  
 GACATTCTAGGAAAATCAGAACCGCGGTGGCAGTGCCAGCTTCTCATGGCGCAGAAATCTACCAGT  
 TCAGAGAACTGTGTGAAGAGAACCTGAATCCCAATGCTCACCCGAGACCACTTCCAGGATTTGGCGGG  
 GTTTTGGGACATGCTGCAGTTGCCATAGAAAACATTAGTATGAAATTTGATGAACCTTATCAGTTAAAG  
 GCCAATAATTGGAAACAGATGGATCCTCTTGACAAGAAGGAGCGAAGGGCCCTCCTCCAGTGCCAAAGA  
 AGCCGCGAAGGGCCCGCGCGCTTGTCCGGGAGCGCTCGTGGAGAGCTCGCAGCGCCAGGAGGCCCG  
 CAAGCGCTGATGGCCGCAAGCGCGCAGCATCAGTCCGCCAGAACTCGGCCACCCAGAGCGCCGAGAGC  
 ATCGAGATCTACATCCCCGAGGCGCAGACCCGGCTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGTTTAA

**Protein Sequence:**

>RR202516 representing NM\_022946  
 Red=Cloning site Green=Tags(s)

MKGLSGSRSHHHGITCESACDSLSHSDHKPYLLSPVDHHPADHPYYTQRNSFQAEVGPFSDFPLASSTF  
 PRRHYTSQQELKDESALVPRTLATKANRLPTNLLDQFERQLPLSRDGYHTLQYKRTAVEHRSDSPGRIRH  
 LVHSVQKLFKSHSLEGPSKGGVNGGKASPDGSQTVRYGKRKSKERRSEPKARSNASNASPTSPSWSS  
 DDNLDGDMCLYHTPSGVMTMGRCPDRSASQYFMEAYNTISEQAVKASRSNNDVKCSTCANLPVTLDAPLL  
 KKSAAWSTLTVSRAREVYQKASVNMDQAVVKSEACQQERSQYLQVPQDEWTGYTPRGKDEIPCRMRMS  
 GSYIKAMGDEDSGSDTSPKPSPKVAARRESYLKATQPSLTELTLKISNEHSPKLQIRSHSYLRVAVSEV  
 SINRSLDLPAGLLTSPKFRSRNESYMRAMSTISQVSEMEVNGQFESVCEVSELESQAVEALDLPMP  
 GCFMRSHSYVRAIEKGCSDDECVSLRSSPPRTTTTVRTIQSSTGVIKLSSAVEVSSCITTYKTPPP  
 VPPRTTTPKFISITAQSSTESAQDAYMDGQQRGDMISQSGLSNSTESLDSMKALTAIEAANAQIHGPA  
 SQHMGSNAAAVTTTTTIIATVTTEDRKKDFKKNRCLSIGIQVDDAESEKMAESKTSKQFQSVGVQVEEEK  
 CFRRFTRSNSVTTAVQADLDFHDNLENSLESIEDNSCPGPMARQFSRDASTSTVSIQSGNHYHACAADD  
 DFDTDFDPSILPPDPWIDSITEDPLEAVQRSVCHRDPGHWFLKLLQAERDRMEGWCKQMEREREENLPE  
 DILGKIRTAVGSAQLLMAQKQFYQFRELCEENLNPNAPRPTSQDLAGFWMLQLSIENISMKFDLHQLK  
 ANNWKQMDPLDKKERRAPPPVPPKPAKGPAPLIRERSLESSQRQEARKRLMAAKRAASVRQNSATESAES  
 IEIYIPEAQTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

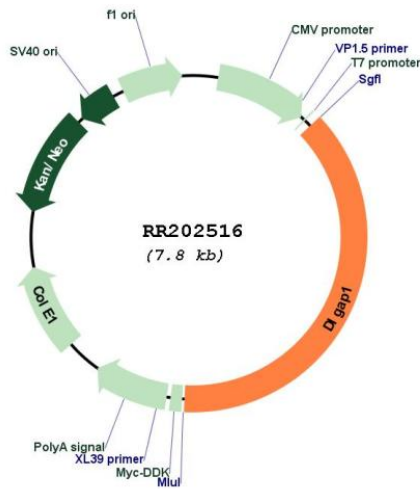
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_022946  
 ORF Size: 2976 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022946.3</a> , <a href="#">NP_075235.3</a>
<b>RefSeq Size:</b>	6417 bp
<b>RefSeq ORF:</b>	2979 bp
<b>Locus ID:</b>	65040
<b>Cytogenetics:</b>	9q38
<b>MW:</b>	110.2 kDa
<b>Gene Summary:</b>	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]