

Product datasheet for **RC213863**

SAPAP3 (DLGAP3) (NM_001080418) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|-------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | SAPAP3 (DLGAP3) (NM_001080418) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SAPAP3 |
| Synonyms: | DAP3; SAPAP3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC213863 representing NM_001080418
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGGGTTACCATGGCGACCGAGGCAGCCATCCCCGCCAGCCCGCTTGTGCTGACCAACAGCATATGG
 ACGTGGGCGCTGCTGCCAGGGCCCCATACCTGCTGGGCTCCAGGGAGGCCTTCTCCACCGAGCCCGCTT
 CTGTGCCCCGAGAGCTGGCCTGGGACACATTTCTCCTGAAGGGCCCTGAGCCTGAGTGAGGGGCGCTCG
 GTAGGCCCTGAGGGAGGGCCAGCGGGGGCCGGGTTGGGGGGGTAGCAGCACCTTCCCCAGGATGTACC
 CTGGCCAGGGCCCTTCGACACCTGTGAAGACTGTGTGGGCCACCCACAGGGCAAGGGTCCCCCGCCCT
 GCCTCTACACTCCTGGATCAGTTTAAAAGCAGTTGCCAGTTCAACAAGATGGCTTCCACACACTACCA
 TACCAGCGAGGGCCAGCAGGGCCAGGGCCCGGGCCAGCGCCAGGGACGGGCACTGCCCCAGAGCCCGCA
 GTGAGAGCCCTAGCCGCATCCGGCACCTGGTTCATTCTGTGCAGAAGCTTTTGCCAAGTCCCCTCTCT
 GGAGGCGCCGGGAAGCGGGACTATAATGGGCCAAGGCTGAGGGAAGAGGTGGCTCTGGAGGAGACAGC
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 ACCAGTCCCGGCACGGCAAGAGGAGCAAGAGCAAGGACCAGCAAGGGGGATGGGCGGCACCCAGGCCAAGT
 CACAGGCTGGTGGAGTCCGATGACAACCTGGACAGTGATAGCGGCTTCTGGCGGGTGGGAGGCCCTT
 GGGGAGCTGGTGGTCCCTTCTGCTGGAGGGTCCAGATGGGTCTACCGGGACTTGAGCTTCAAGGGGC
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 CAAGCGAAGTGCCTGGCATAACATGATGGTCAGCCAGGGCCGGATGGATACCCGGGGCCGGGCCAGGC
 AAGGGGCTCCTGGTCCGAGACCAAGGCCAAAGCCAGGACTTATCACTATCTGCAGTGGCCGAAGATG
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 CATCAAAGCCATGGGGGATGAGGAGAGCGGAGACTCAGACGGCAGCCCAAGACATCTCCCAAAGCAGTC
 GCCCGACGCTTACCACCCGTCGCTCCTCCAGCGTGGACCAGGCCAGGATCAACTGCTGTGTCCACCCC
 GGATCCACCCCGGAGCTCCATCCCTGGCTACAGCCGTTCCCTCACCCTGGACAGCTCAGCGATGAGTT
 GAACCAGCAGCTGGAGGCCGTGTGCGGGTCCGTGTTGGGGAGCTGGAGTCCCAGGCCGTGGACGCCCTG
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 CAGAAAGGCCCGCCCCCATCCCGCCGGGAAGCCAGGCCCGCCCGCATCTCCATCACCGCCAGAGC
 AGCACCGACTCCGCGCAGAGAGCTTACGGCGCGCAGGGCCCCGCCCGGCTGCAGTCCGCCGACG
 GGCTGGACGGCCCGCATGGGTGCGCGCACACTGGAGTTGGCGCCGGTCCGCCCGGGCCAGCCCAA
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 CCTCAAGTTCTGGAGTACAGCAACTCAAGGCCAACAGCTGAAACTCCTGGAGCCTAAGGAGGAGAAG
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 CCACAGCTCGGCCACCGAGAGCGCCGACAGCATCGAGATCTACATCCCCGAGGCCAGACCAGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213863 representing NM_001080418
 Red=Cloning site Green=Tags(s)

MRGYHGDGRGSHPRPARFADQQHMDVGPAAARAPYLLGSREAFSTEPRFCAPRAGLGHISPEGPLSLSEGPS
 VGPEGGPAGAGVGGSSTFPRMYPGQGFDTCEDCVGHPQKGGAPRLPPTLLDQFEKQLPVQDGFHTLP
 YQRGAPAGAGPAPGTGTAPEPRSESPSRIRHLVHSVQKLFKSHSLEAPGKRKYNGPKAEGRGGSGGDS
 YPGPGSGGPHTSHHHHHHHHHHHHQSRRHGKRSKSKDRKGDGRHQAKSTGWSSDDNLDSDSGFLAGRPP
 GEPGGPFCELEPGDGSYRDL SFKGRSGGSEGRCLACTGMSMSLDGQSVKRSAWHTMMVSQGRDGYPGAGPG
 KGLLGPETKAKARTYHYLQVPQDDWGGYPTGGKDGEIPCRMRSGSYIKAMGDEESGSDSGSPKTSFKAV
 ARRFTRRSSVDQARINCCVPPRIHPRSSIPGYSRSLTTGQLSDELNQQLEAVCGSVFGELESQAVDAL
 DLPGCFMRSHSYLRAIQAGCSQDDCLPLLATPAAVSGRPGSSFNFRKAPPIPPGSQAPPRI SITAQS
 STDSAHE SFTA AEGPARRCSSADGLDGPAMGARTLELAPVPPRASPKPPTLI IKTI PGREELRSLARQRK
 WRPSIGVQVETISDSDTENRSRREFH SIGVQVEEDKRRARFKRSNSVTAGVQADLELEGLAGLATVATED
 KALQFGRSFQRHASEPQGPAPTYSVFRTVHTQGQWAYREGYPLPYEPPATDGSPPAPAPTTPGPGAGR
 RDSWIERSRSLPDSGRASPCPRDGEWFKMLRAEVEKLEHWCQQMEREAEYELPEEILEKIRSAVGST
 QLLL SQK VQQFFRLCQQSMDPTAFPVPTFQDLAGFWDLLQLSIEDVTLKFLLELQQLKANSWKLLEPKEEK
 KVPPPIPKKPLRGRGVPVKERSLDSVDRQRQEARKRLLAAKRAASFRHSSATESADSI E IYIPEAQTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8029_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



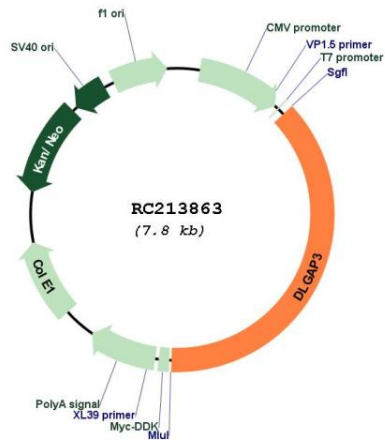
* The last codon before the Stop codon of the ORF

ACCN: NM_001080418

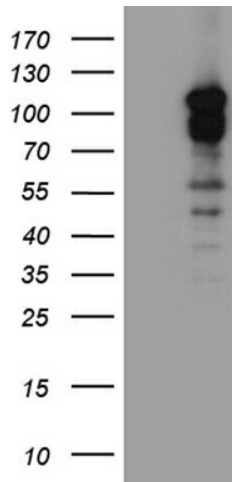
ORF Size: 2937 bp

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: | <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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | NM_001080418.3 |
| RefSeq Size: | 3587 bp |
| RefSeq ORF: | 2940 bp |
| Locus ID: | 58512 |
| UniProt ID: | O95886 |
| Cytogenetics: | 1p34.3 |
| MW: | 105.9 kDa |
| 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] |

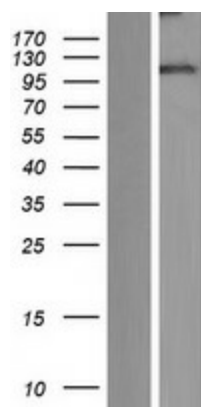
Product images:



Circular map for RC213863



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DLGAP3 (Cat# RC213863, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DLGAP3 (Cat# [TA811499])(1:500). Positive lysates [LY421635] (100ug) and [LC421635] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY421635]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213863 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).