

Product datasheet for **RG207506**

DIP13B (APPL2) (NM_018171) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIP13B (APPL2) (NM_018171) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DIP13B
Synonyms:	DIP13B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG207506 representing NM_018171
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGCGTGGACAAGCTCCTGCTAGAGGAGCGTTGCAGGACAGCCCCAGACTCGCTCTTTACTGA
 GCGTGTGTTGAAGAAGATGCTGGCACCTCACAGACTATACCAACCAGCTGCTCCAGGCAATGCAGCGCGT
 CTATGGAGCCCAGAATGAGATGTGCTGGCCACACAACAGCTTTCTAAGCAACTGCTGGCATATGAAAA
 CAGAACTTTGCTCTTGGCAAAGGTGATGAAGAAGTAATTTCAACACTCCACTATTTTTCCAAAGTGGTGG
 ATGAGCTTAATCTTCTCCATACAGAGCTGGCTAAACAGTTGGCAGACACAATGGTTCTACCTATCATACA
 ATTCGAGAAAAGGATCTCACAGAAGTAAGCACTTTAAAGGATCTATTTGGACTCGCTAGCAATGAGCAT
 GACCTCTCAATGGCAAAATACAGCAGGCTGCCTAAGAAAAAGGAGAATGAGAAGGTGAAGACCGAAGTCG
 GAAAAGAGGTGGCCGCGCCCGGGAAGCAGCATCTCTCTCCCTTTCAGTACTACTGTGCCCTCAACGC
 GCTGCAGTACAGAAAGCAATGGCCATGATGGAGCCCATGATAGGCTTTGCCATGGACAGATTAACCTT
 TTTAAGAAGGGAGCAGAGATGTTTTCCAACGTATGGACAGCTTTTTATCTCCGTTGCAGACATGGTTC
 AAAGCATTGAGGTAGAAGTGAAGCCGAGGCGGAAAAGATGCGGGTGTCCAGCAAGAATTACTTTCTGT
 TGATGAATCTGTTTACACTCCAGACTCTGATGTGGCCGCACCACAGATCAACAGGAACCTCATCCAGAAG
 GCTGGTTACCTTAATCTTAGAAACAAAACAGGGCTGGTACCACCACCTGGGAGAGGCTTTATTTCTTCA
 CCCAAGGCGGGAATCTCATGTGTGAGCCAGGGGAGCCGTGGCTGGAGGTTTGTCCAGGACCTGGACAA
 CTGCTCAGTGTGGCCGTGGATTGCGAAGACCGGCGCTACTGCTCCAGATCACCACGCCAATGGAAAA
 TCGGGAATAATCCTCCAGGCTGAGAGCAGAAAGGAAAAAAGAAGTGGATATGTGCAATAAACAACATCT
 CCAGACAGATCTACCTGACCGACAACCTGAGGCAGTCGCGATCAAGTTGAATCAGACCGCTCTGCAAGC
 AGTGACTCCATTACAAGTTTTGGAAAAAACAAGAAAGCTCATGCCCCAGCCAGAACCTGAAAAATTCA
 GAGATGGAAAATGAAAATGACAAGATTGTTCCAAAGTAACAGCCAGTCTACCTGAAGCAGAGGAGCTGA
 TCGCGCTGGAACGCGGATTCAATTCGATATTGTGCTTCTGCTACAGAATTCCTTGATCAGAACAGAGG
 GAGCAGGCGTACCAACCTTTTGGTGAACTGAGGATGAATCATTTCCAGAAGCAGAAGATTCTTTTTG
 CAGCAGATGTTTATAGTTCGTTTTTGGGATCAATGGCAGTTAAACAGACAGCACTACTGAAGTGATTT
 ATGAAGCGATGAGACAAGTATTGGCTGCTCGGGCTATTCATAACATCTCCGCATGACAGAATCCCATCT
 GATGGTACCAGTCAATCTTTGAGGTTGATAGATCCACAGACTCAAGTATCAAGGGCCAATTTGAACTT
 ACCAGTGTACACAATTTGCTGCTCATCAAGAAAACAAGAGACTGGTTGGTTTTGTCATCCGTGTTCTCTG
 AATCCACTGGAGAAGAATCTCTGAGTACATACATTTTTGAAAGCAACTCAGAAGGCGAAAAGATATGTTA
 TGCTATTAATTTGGGAAAAGAAATTATTGAGGTTCAGAAGGATCCAGAAGCACTGGCTCAATTAATGCTG
 TCCATACCACTAACCAATGATGGAAAATATGTAAGTGTAAACGATCAACCAGATGACGATGATGAAATC
 CAATGAACATAGAGGCGCAGAATCCGAAGCA

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207506 representing NM_018171
 Red=Cloning site Green=Tags(s)

MPAVDKLLLEEALQDSPQTRSLLSVFEEDAGTLTDYTNQLLQAMQRVYGAQNEMCLATQQLSKQLLAYEK
 QNFALGKGDDEEIVISTLHYFSKVVDELNLLHTELAKQLADTMVLP I IQFREKDLTEVSTLKDLFGLASNEH
 DLSMAKYSRLPKKKENEVKTEVGKEVAARRKQHLSSLQYYCALNALQYRKQMAMMEPMIGFAHGQINF
 FKKGAEMFSKRMDSFSSVADMVQSIQVELEAEAEKMRVSOQELLSDVESVYTPDSDVAAPQINRNLIQK
 AGYLNLRNK TGLVTTTWERLYFF TQGGNLMCQPRGAVAGGLIQDLDNCSVMAVDCEDRRYCFQITTPNGK
 SGIILQAESRKENEWEICAINNISRQIYLTDNPEAVAIAIKLNQTALQAVTPITSFGKKQESSCPSQNLKNS
 EMENENDKIVPKVTASLPEAEELIAPGTPIQFDIVLPATEFLDQNRGSRRTNPFGETEDESPEAEDSL
 QQMFIVRFLGSMVAKTDTSTTEVIYEAMRQVLAARA IHNIFRMTESHLMVTSQSLRLIDPQTQVSRANFEL
 TSVTQFAAHQENKRLVGFVIRVPESTGEESLSTYIFESNSEGEKICYAINLGKEIEEVQKDPALQML
 SIPLTNDGKYVLLNDQPDDDDGNPNEHRGAESA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018171

ORF Size: 1992 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_018171.3](#), [NP_060641.2](#)

RefSeq Size: 3289 bp

RefSeq ORF: 1995 bp

Locus ID: 55198

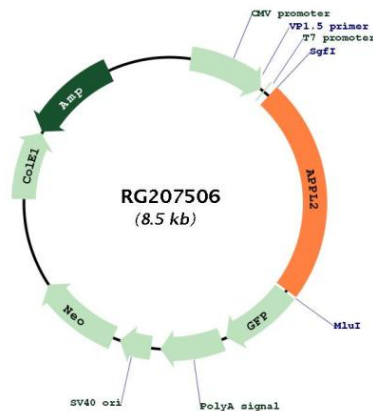
UniProt ID: [Q8NEU8](#)

Cytogenetics: 12q23.3

Domains: PH, PID

Gene Summary: The protein encoded by this gene is one of two effectors of the small GTPase RAB5A/Rab5, which are involved in a signal transduction pathway. Both effectors contain an N-terminal Bin/Amphiphysin/Rvs (BAR) domain, a central pleckstrin homology (PH) domain, and a C-terminal phosphotyrosine binding (PTB) domain, and they bind the Rab5 through the BAR domain. They are associated with endosomal membranes and can be translocated to the nucleus in response to the EGF stimulus. They interact with the NuRD/MeCP1 complex (nucleosome remodeling and deacetylase /methyl-CpG-binding protein 1 complex) and are required for efficient cell proliferation. A chromosomal aberration t(12;22)(q24.1;q13.3) involving this gene and the PSAP2 gene results in 22q13.3 deletion syndrome, also known as Phelan-McDermid syndrome. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG207506