

Product datasheet for **SC113670**

DIP13B (APPL2) (NM_018171) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIP13B (APPL2) (NM_018171) Human Untagged Clone
Tag:	Tag Free
Symbol:	DIP13B
Synonyms:	DIP13B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018171, the custom clone sequence may differ by one or more nucleotides

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ATGCCCGCCGTGGACAAGCTCCTGCTAGAGGAGGCGTTGCAGGACAGCCCCAGACTCGCTCTTTACTGA
GCGTGTGGTGAAGAAGATGCTGGCACCCCTCACAGACTATACCAACCAGCTGCTCCAGGCAATGCAGCGCGT
CTATGGAGCCCAGAATGAGATGTGCTGGCCACACAACAGCTTTCTAAGCAACTGCTGGCATATGAAAA
CAGAACTTTGCTCTGGCAAAGGTGATGAAGAAGTAATTTCAACTCCACTATTTTCCAAAGTGGTGG
ATGAGCTTAATCTTCCATACAGAGCTGGCTAAACAGTTGGCAGACACAATGGTTCTACCTATCATAACA
ATTCCGAGAAAAGGATCTCACAGAAGTAAGCACTTTAAAGGATCTATTTGGACTCGCTAGCAATGAGCAT
GACCTCTCAATGGCAAAATACAGCAGGCTGCCTAAGAAAAAGGAGAATGAGAAGGTGAAGACCGAAGTCG
GAAAAGAGGTGGCCGCGGCCGGAAGCAGCACCTCTCTCCCTTTCAGTACTACTGTGCCCTCAACGC
GCTGCAGTACAGAAAGCAATGGCCATGATGGAGCCCATGATAGGCTTTGCCATGGACAGATTAACCTTT
TTAAGAAGGGAGCAGAGATGTTTTCAAACGTATGGACAGCTTTTTATCCTCCGTTGCAGACATGGTTC
AAAGCATTTCAGGTAGAAGTGAAGCCGAGGCGGAAAAGATGCGGGTGTCCAGCAAGAATTACTTTCTGT
TGATGAATCTGTTTACACTCCAGACTCTGATGTGGCCGACCACAGATCAACAGGAACCTCATCCAGAAG
GCTGGTTACCTTAATCTTAGAAAACAAAACAGGGCTGGTCAACCACCACCTGGGAGAGGCTTTATTTCTTCA
CCCAAGGCGGGAATCTCATGTGTGAGCCAGGGGAGCCGTGGCTGGAGGTTTGATCCAGGACCTGGACAA
CTGCTCAGTGTGGCCGTGGATTGCGAAGACCGGCGCTACTGCTCCAGATCACCACGCCCAATGAAAA
TCGGGAATAATCTCCAGGCTGAGAGCAGAAAGAAAAATGAAGAGTGGATATGTGCAATAAAACAACATCT
CCAGACAGATCTACCTGACCGACAACCTGAGGCACTCGCATCAAGTTGAATCAGACCGCTCTGCAAGC
AGTGACTCCCATTACAAGTTTTGGAAAAAACAAGAAAGCTCATGCCCCAGCCAGAACCTGAAAAATTCA
GAGATGGAAAAATGAAAAATGACAAGATTGTTCCCAAAGCAACAGCCAGTCACTGAAAGCAGAGGAGCTGA
TCGCGCCTGGAACGCGGATTCAATTCGATATTGCTTCCCTGCTACAGAATTCCTTGATCAGAACAGAGG
GAGCAGGCGTACCAACCTTTTTGGTGAAGTGAAGTGAATCATTTCAGAAGCAGAAGATTCTCTTTTG
CAGCAGATGTTTATAGTTCGGTTTTGGGATCAATGGCAGTAAAAACAGACAGCACTACTGAAGTGATTT
ATGAAGCGATGAGACAAGTATTGGCTGCTGGGCTATTCATAACATCTCCGCATGACAGAATCCCATCT
GATGGTCAACAGTCAATCTTGGAGTTGATAGATCCACAGACTCAAGTATCAAGGGCCAATTTTGAAGT
ACCAGTGCACACAATTTGCTGCTCATCAAGAAAAACAAGAGACTGGTGGTTTTGTCATCCGTGTTCTCTG
AATCCACTGGAGAAGAATCTCTGAGTACATACATTTTTGAAAGCAACTCAGAAGGCGAAAAGATATGTTA
TGCTATTAATTTGGGAAAAGAAATATTGAGGTTGAGAAGGATCCAGAAGCACTGGCTCAATTAATGCTG
TCCATACCACTAACCAATGACGGAATATGACTGTTAAACGATCAACCAGATGACGATGATGGAATC
CAAACGAACATAGAGGCGCAGAATCCGAAGCATAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018171 unedited

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GGTCACCATTTGTATACGACTCACTATAGGCGGCCGATTCGGCAGGAGGTGTAAGTAACT
AGTCTGTGTGCATACACATGCGTTATTTCTGCTTACCTCTCTATGTGGGAAGCTGAACAT
TTTAGGGATTAAGAAATCTGCCTCCATTGTTGTTTGAAGCCTCTGCTCCTTGCCTGGCA
CTACTGGCTGTTGGGAATGTGAAGATAAATAAGAGTGAAGTACCCTTGACTGGTTCACAGT
TTGTTCCAGAGACAGATAATGAGGCAACAGTTCAGTACAGTGTGAATCCTGCTGCGATA
GGAACACAAAATGCAGCTTTGAGCTCCTGCAGCTTGTACTTCTCAGGGGCTTATTCTCTT
GTCCTACTCGCTCTTTACTGAGCGTGTGTTGAAGAAGATGCTGGCACCCCTCACAGACTATA
CCAACCAGCTGCTCCAGGCAATGCAGCGCTCTATGGAGCCAGAATGAGATGTGCCTGG
CCACACAACAGCTTTCTAAGCAACTGCTGGCATATGAAAAACAGAAGTCTGCTTTGGCA
AAGGTGATGAAGAAGTAATTTCAACTCCACTATTTTTCCAAAGTGGTGGATGAGCTTA
ATCTTCTCCATACAGAGCTGGCTAAACAGTTGGCAGACACAATGGTTCTACCTATCATAAC
AATTCGAGAAAAGGATCTCACAGAAGTAAGCACTTTAAAGGATCTATTTGGACTCGCTA
GNCATGAGCATGACCTCTCAATGGCANAATACAGCANGCTGCCTAAGAAAAAGGAGATGA
GAAGGTGAAGACCCGAAGTCGAAAAGAGTGGGCCGCGCCNGNCGAAGCAGCACCTCTCC
TCCCTTTCAGTACTACTGTGCCCTCCACGCGCTGCAGTACAGAAAAGCAATGGCCATGATG
GAGCCC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018171 unedited GCTATGCACCCGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTAAAAA AACAAAATAATTTTTATTGCTAGGTTAATTTATTACAAAGATAATAATAGTCTGTTGAAC TTAGTTACAGTTAAACACACTGTACCGATTCAAATCATTATACTAGTTTGATAGGGAGG AGGGATGGGGGAGCGGGCTGGGGTTCCAGGAATTGGAAGTATCAGGGTGGAAATAGGAAC TTTATACCAAGCCCATGACCAGCTGTGCTTCAAGTGAGTTTTAAAATTACCTGGTCCCT TCCCTGAAGAGGGTCTGGCTCAAAGAAACAGGAACTGGCAGAGCTGCACCCTGTCCACA GTGATCCACTACTAAAAATACTCATACCTAGGAGGACCTTAAACTTTTGAATGCTGCTTC AGCAAGGCTCCACTGTAAATCAAACATTTTTTTCGGTACTTATTTTTTTATTGCTTGAT GCCTGGAACAGTTACCGAACTAGACCTGCATCGCGCATCTCTATTACTGTTTGGGCCTC AAAGCAGTGCTCGTCACCTAACTGCACAAAGAACCCTATTACGCCCAATTGTGACATAA GCTGAATTATAAATACACAATTTTCAGAACGACAGGCACTCAACGCTCACTCCTTAACCC CATACACTCCACCTTAAATAACAATATTTAGGGCTCATTAACTTGAAACCTAGACTT TACGCCTTTTTTAAAAAGATACTGGCACTGTAAAAAATGACCTTAATAGGACAACGCTT CTCCAAATTTTTGTATAGCGCTGAAATTCACAAATTTACTGCACCCAACAAAAAGATT CCCCAAATTCCTTAAACACTTCGTAAAGTTCGGTAACTTGCCATCATTTCTACTCCCC TTCACACCTCACATTTATGGTTAAAACCCCTCCCAACTATGTCCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_018171
Insert Size:	3370 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:	<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.
RefSeq:	<u>NM_018171.2</u> , <u>NP_060641.2</u>
RefSeq Size:	3289 bp
RefSeq ORF:	1995 bp
Locus ID:	55198
UniProt ID:	<u>Q8NEU8</u>
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]

Transcript Variant: This variant (1) encodes the predominant isoform (1).