

Product datasheet for **SC332146**

DIP13B (APPL2) (NM_001251904) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIP13B (APPL2) (NM_001251904) Human Untagged Clone
Tag:	Tag Free
Symbol:	DIP13B
Synonyms:	DIP13B
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC332146 representing NM_001251904.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCCGCCGTGGACAAGCTCCTGCTAGAGGAGGCGTTGCAGGACAGCCCCAGACTCGCTCTTTACTG
AGCGTGTTTGAAGAAGATGCTGGCACCCTCACAGACTATACCAACCAGCTGCTCCAGGCAATGCAGCGC
GTCTATGGAGCCCAGAATGAGATGTGCTGGCCACACAACAGCTTTCTAAGCAACTGCTGGCATATGAA
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CAAGAAAAACAAGAGACTGGTTGGTTTTGTCATCCGTGTTCTGAATCCACTGGAGAAGAATCTCTGAGT
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AAATATGTAAGTAAACGATCAACCAGATGACGATGATGGAAATCCAAACGAACATAGAGGCGCAGAA
TCCGAAGCATAA
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001251904

Insert Size: 2013 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_001251904.1](#)

RefSeq Size: 3307 bp

RefSeq ORF: 2013 bp

Locus ID: 55198

UniProt ID: [Q8NEU8](#)

Cytogenetics: 12q23.3

MW: 75.2 kDa

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 (2) has an additional in-frame segment in the coding region, compared to variant 1. The resulting isoform 2 is longer than isoform 1.