

Product datasheet for **RC206245**

FAM116B (DENND6B) (NM_001001794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM116B (DENND6B) (NM_001001794) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM116B
Synonyms:	AFI1B; FAM116B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC206245 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGCGCTGTTGGGCACAGGGCCTCGCCGGGCTCGCGGCTGCCTGGGCGCGGCTGGACCCACGTCTT
 CAGGTCGCGCGGCGCGGACCCCGCGGCCCTGGGCGCGCTTCTCCGCTGGCTGGAGTGTGTGTGCGT
 GGTCACCTTCGACCTGGAGCTGGGCCAGGCGCTGGAGCTGGTGTATCCGAACGACTTCCGGCTCACAGAC
 AAGGAGAAAAGCAGCATCTGCTACCTGTCTTTCCCGACTCGCACTCAGGCTGCCTGGAGACACTCAGT
 TCAGCTTCCGATGCGCCAGTGTGGAGGGCAGAGGAGCCCTGGCATGCCGACGACAGGCACTACAACAG
 CAGGGCCCTGTGGCACTGCAGAGGGAGCCGGCACACTACTTCGGCTACGTGTACTTCAGGCAGGTGAAG
 GACAGCTCTGTGAAGAGGGGCTACTTCCAGAAGTCTTTGGTGTGGTGTCCCGCTTGCCCTTTGTCCGGC
 TGTTCCAAGCGCTGCTAAGCCTCATCGCCCCGAGTACTTTGACAAGCTGGCGCCCTGCCTGGAAGCAGT
 GTGCAGTGAGATCGACCACTGGCCGGCGCTGCACCTGGGCAGACCTGAACCTACCTGTATGGCGCTT
 GTTGTCCAGGTGCGCATCCCATCCAGGGTGGACAAGTCCGAGTCCAGTCTCCGAAGCAGTTTGACCAAG
 AGAACCTGCTGCCAGCCCCAGTGGTCTTGTCTAGCGTCCACGAGCTGGACCTGTTCAAGTGTCTCCGGCC
 TGTGTGACTCATATGCAGACACTGTGGGAGCTCATGCTCCTCGGGGAGCCCCCTGCTAGTCTGGCACCC
 TCGCCGACGTGTCTCGGAGATGGTGTGGCCTTGACCACTGCCTGCAGCCCCCTCAGGTTCTGTGTGCG
 ACTTCCGTCCTACTTCACCATCCATGACAGCGAGTTCAGGAGTTTACCACACGCACGAGGCCCCACC
 AAACGTGGTCTGGGAGTCACAAACCTTTCTTTATCAAAACACTCCAGCACTGGCCCCACATCTCCGA
 GTCGGGGAGCCCAAGATGTCAGGAGACCTGCCTAAGCAAGTCAAGCTGAAAAAGCCTTCAAGGTTGAAGA
 CCCTGGACACCAAGCCAGGCCTCTACACGCTTACACGGCCACCTCCACCGCACAAGGCGCTGCTCAA
 ACGGCTGCTCAAGGGCGTGCAGAAGAAGCGGCCGTCAGATGTGCAGAGCGCCCTGCTGCGGCGGCACCTC
 CTGGAGCTCACCCAGAGTTCATCATCCCCCTGGAGCACTACATGGCCAGCCTCATGCCCTGCAGAAGA
 GCATCACGCCCTGGAAGACTCCCCCAGATCCAGCCCTTCAGCCAGGATGACTTCTGCGTAGCTGGA
 GCATGTGGGCCCCAGCTCACCTGCATCCTCAAGGGCGACTGGCTGGGTCTCTACAGGCGGTTTTTCAAG
 TCCCCCATTTTGTGGTGGTACCGGCAGCGGCACAAGGAGATGGCCCTGAAGCTGGAGGCCCTGCACC
 TGGAGGCTATCTGTGAGGCGAATCGAGACCTGGATGAAAGACAAGTCCGAGGTGGAGGTCGTGGACCT
 GGTCTGAACTTCGTGAGAAGCTGGTGGGGCTCAGGGCCACCAGCTCCCTGTGAAGGAGGCTACGCTG
 CAGCGGGCACAGCTGTACATCGAGACGGTCATCGGCTCCCTGCCAAAGACCTGCAGGCTGTCTTGTC
 CTCC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206245 protein sequence
 Red=Cloning site Green=Tags(s)

MDALLGTGPRRARGCLGAAGPTSSGRAARTPAAPWARFSAWLECVCVVTFDLELGQALELVYPNDFRLTD
 KEKSSICYLSFPDSHSGCLGDTQFSFRMRQCGQRSPWHADDRHYNSRAPVALQREPAHYFGYVYFRQVK
 DSSVKRGYFQKSLVLSRLPFVRLFQALLSLIAPEYFDKLAPCLEAVCSEIDQWPAPAPGQTLNLPVMGV
 VVQVRIPSRVDKSESSPPKQFDQENLLPAPVVLASVHELDLFRCFRPVLTHTMQLWELMLLGEPLLVLP
 SPDVSSEMVLTSLQLPLRFCCDFRPYFTIHDSEFKEFTTRTQAPPNVVLGVTNPFFIKTLQHWPHILR
 VGEPMKSGDLPKQVKLKKPSRLKTLDTKPLYTAYTAHLHRDKALLKRLKGVQKKRPSDVQSALLRRHL
 LELTQSFIIPIEHYMASLMPLQKSITPWKTPPQIQPFSQDDFLRSLEHAGPQLTCILKGDWLGLYRRFFK
 SPHFDGWYRQRHKEMALKLEALHLEAICEANIEWTMKDKSEVEVVDLVKLREKLVRAGHQPLPVKEATL
 QRAQLYIETVIGSLPKDLQAVLCP

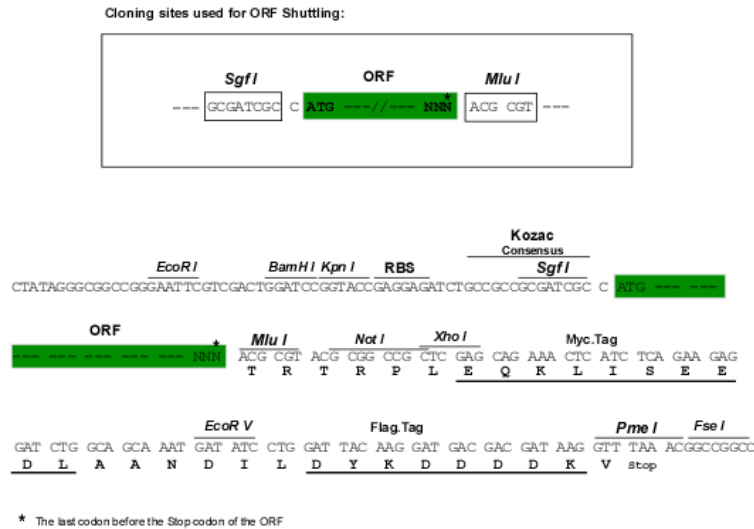
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6864_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001794

ORF Size: 1755 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

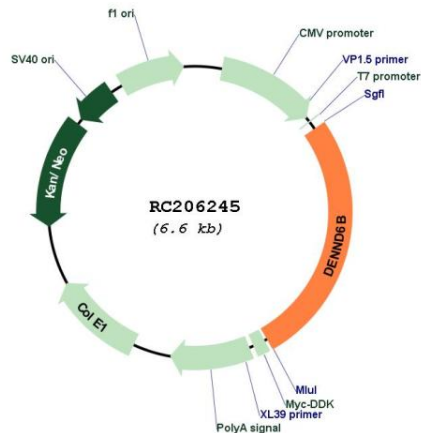
RefSeq: [NM_001001794.4](#)

RefSeq Size: 2029 bp

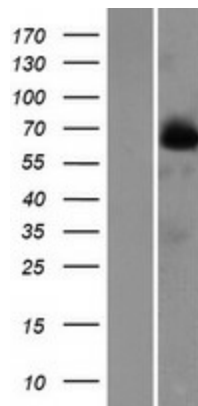
RefSeq ORF: 1758 bp

Locus ID: 414918
UniProt ID: [Q8NEG7](#)
Cytogenetics: 22q13.33
MW: 66.5 kDa
Gene Summary: Guanine nucleotide exchange factor (GEF) for RAB14. Also has some, lesser GEF activity towards RAB35.[UniProtKB/Swiss-Prot Function]

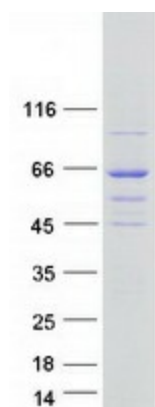
Product images:



Circular map for RC206245



Western blot validation of overexpression lysate (Cat# [LY424245]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206245 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DENND6B protein (Cat# [TP306245]). The protein was produced from HEK293T cells transfected with DENND6B cDNA clone (Cat# RC206245) using MegaTran 2.0 (Cat# [TT210002]).