

## Product datasheet for **RG206245**

### **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:                      | TurboGFP  |
| Symbol:                   | FAM116B   |
| Synonyms:                 | AFI1B; FAM116B  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                  |



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**ORF Nucleotide Sequence:**

>RG206245 representing NM\_001001794  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGCGCTGTTGGGCACAGGGCCTCGCCGGGCTCGCGGCTGCCTGGGCGCGGCTGGACCCAGTCTT  
 CAGGTCGCGCGGGCGGACCCCGGCGGCCCTGGGCGCGCTTCTCCGCTGGCTGGAGTGTGTGTGCGT  
 GGTCACTTCGACCTGGAGCTGGGCCAGGCGCTGGAGCTGGTGTATCCGAACGACTTCCGGCTCACAGAC  
 AAGGAGAAAAGCAGCATCTGCTACCTGTCTTTCCCGACTCGCACTCAGGCTGCCTGGAGACACTCAGT  
 TCAGCTTCGCGATGCGCCAGTGTGGAGGGCAGAGGAGCCCTGGCATGCCGACGACAGGCACTACAACAG  
 CAGGGCCCTGTGGCACTGCAGAGGGAGCCGGCACACTACTTCGGCTACGTGTACTTCAGGCAGGTGAAG  
 GACAGCTCTGTGAAGAGGGGCTACTTCCAGAAGTCTTTGGTGTGGTGTCCCGCTTGGCCCTTGTCCGGC  
 TGTTCCAAGCGCTGCTAAGCCTCATCGCCCCGAGTACTTTGACAAGCTGGCGCCCTGCCTGGAAGCAGT  
 GTGCAGTGAGATCGACCAGTGGCCGGCGCTGCACCTGGGCGAGCCCTGAACCTACTGTATGGGCGTT  
 GTTGTCAGGTGCGCATCCCATCCAGGGTGGACAAGTCCGAGTCCAGTCCCTCCGAAGCAGTTTGACCAAG  
 AGAACCTGCTGCCAGCCCCAGTGGTCTTGTAGCGTCCACGAGCTGGACCTGTTAGGTGCTTCCGGCC  
 TGTGCTGACTCATATGCAGACACTGTGGGAGCTCATGCTCCTCGGGGAGCCCTGCTAGTCTGGCACCC  
 TCGCCGACGTGTCTCGGAGATGGTGTGGCCTTGACCAGCTGCCTGCAGCCCCCAGGTTCTGTGCG  
 ACTTCCGTCCCTACTTACCATCCATGACAGCGAGTTCAAGGAGTTCACCACACGCACGCAGGCCCCACC  
 AAACGTGGTCTGGGAGTCACAAACCTTTCTTTATCAAAACTCCAGCACTGGCCCCACATCTCCGA  
 GTCGGGGAGCCCAAGATGTCAGGAGACCTGCCTAAGCAAGTCAAGCTGAAAAAGCCTTCAAGGTTGAAGA  
 CCCTGGACACCAAGCCAGGCCTTACACCGCTTACACGGCCACCTCCACCGGACAAAGGCGCTGCTCAA  
 ACGGCTGCTCAAGGGCGTGCAGAAGAAGCGGCCGTGAGATGTGCAGAGCGCCCTGCTGCGGCGGCACCTC  
 CTGGAGCTCACCCAGAGCTTATCATCCCCCTGGAGCACTACATGGCCAGCCTCATGCCCTGCAGAAGA  
 GCATCACGCCCTGGAAGACTCCCCCAGATCCAGCCCTTCAAGCCAGGATGACTTCTGCGTAGCCTGGA  
 GCATGCTGGGCCAGCTCACCTGCATCTCAAGGGCGACTGGCTGGTCTCTACAGGCGGTTTTTCAAG  
 TCCCCCATTTTGTGGTGGTACCAGGCGGCAAGGAGATGGCCCTGAAGCTGGAGGCCCTGCACC  
 TGGAGGCTATCTGTGAGGCGAACATCGAGACCTGGATGAAAGACAAGTCCGAGGTGGAGGCTGTGGACCT  
 GGTCTGAAACTTCGTGAGAAGCTGGTGGGGCTCAGGGCCACCAGCTCCCTGTGAAGGAGGCTACGCTG  
 CAGCGGGCACAGCTGTACATCGAGACGGTATCGGCTCCCTGCCAAAGACTGCAGGCTGTCTTGTGCC  
 CTCCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG206245 representing NM\_001001794  
 Red=Cloning site Green=Tags(s)

MDALLGTGPRRARGCLGAAGPTSSGRAARTPAAPWARFSAWLECVVTFDLELQALELVYPNDFRLTD  
 KEKSSICYLSFPDSSHGCLGDTQFSFRMRQCGQRSPWHADDRHYNSRAPVALQREPAHYFGVYFRQVK  
 DSSVKRGYFQKSLVLSRPLPFVRLFQALLSLIAPEYFDKLPCLAEAVCSEIDQWPAPAPGQTLNLPVMGV  
 VVQVRIPSRVDKSESSPPKQFDQENLLPAPVVLASVHELDFRCFRPVLTHMQTLWELMLLGEPLLVLP  
 SPDVSSEMLALTSCLQPLRFCCDFRPYFTIHDSEFKFTTRTQAPPNVVLGVTNPFPIKTLQHWPHILR  
 VGEPKMSGDLPKQVKKLPPSRLKTLDTKPGLYATYAHLHRDKALLKRLKGVQKKRPSDVQSALLRRHL  
 LELTQSFIIIPLEHYMASLMPLQKSITPWKTPPQIQPFSQDDFLRSLEHAGPQLTCILKGDWGLYRRFFK  
 SPHFDGWYRQRHKEMALKLEALHLEAICEANIETWMKDKSEVEVVDLVLKLREKLVRAQGHQLPVKEATL  
 QRAQLYIETVIGSLPKDLQAVLCPP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-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.

**RefSeq:** [NM\\_001001794.4](#)

**RefSeq Size:** 2021 bp

**RefSeq ORF:** 1758 bp

**Locus ID:** 414918

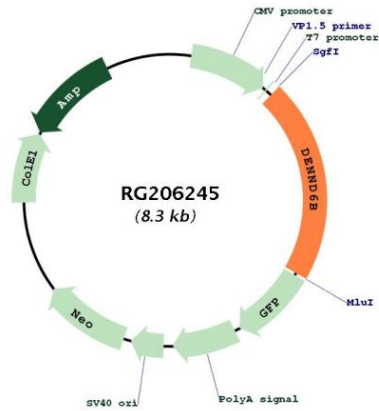
**UniProt ID:** [Q8NEG7](#)

**Cytogenetics:** 22q13.33

**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 RG206245