

## Product datasheet for **RG207268**

### **FAM116A (DENND6A) (NM\_152678) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FAM116A (DENND6A) (NM_152678) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM116A
Synonyms:	AFI1A; FAM116A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207268 representing NM\_152678  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTTGAGGGCCCTGCGGGCTTGGGGCCCGCTCTCGAAGCCGTTGGACGAAGCGTGGCAGGGG  
 CCGAGGGCCGCGAGGCGCGGCCCTTGTGGCGGGGAGGCGCGCCAGAGGACGATGAAGAGGACGATGG  
 CCGTGGCCGGGGCCTGCTGCGCTGGGACAGCTTCTCCGCCTGGCTGCACTGCGTGTGTGGTGGCCTC  
 GACCTGGAGCTGGCCAGGCCGTGGAGTAATTTATCCTCAGCATTCCAAACTTACTGACAGAGAAAAA  
 CCAATATTTGCTATTTGCTTTTCCAGATTCAAATTCAGGTTGCTTGGAGATACCCAGTTTTGTTTTAG  
 ATTTGACAGTCTTCTGGGAGGAGGTGTCGCTGCATTGTCTCCTGGATCAATTTGACAAAGATTACCA  
 GTTTACTTAAAGAAGGATCCTGCTATTTTTATGGATATGTGATTTCCGACAAGTTCGAGATAAAACTC  
 TAAAAAGAGGCTACTTTCAGAAGTCTTGGTTTTGATCAGCAAACCTTATATTCATTTTTTTCACAC  
 TGTGCTCAAACAGATAGCACAGAGTATTTGAAAAGAATGAACCTTATTTGGAAGCAGCTTGAATGAT  
 GTTGATCGATGGCTGCCAGTCCAGGAAAACATTACACCTGCCAATCATGGGGTGGTAATGAAGG  
 TACGGATCCCACATGTCATGACAAGCCTGGGACAACCAATAGTGCAGTTAACTCAGCAGGTGGACAC  
 AAATATATCTGTTATTTTACCTACTGTTTCATGAGGTGGATATTTTCCAGGTGTTTCTGCCAGTTTTCTT  
 CATAGTCAGATGCTCTGGGAGCTGGTGTGTTGGGGGAGCCCCTTGTGGTTATGGCGCCATCACCATCGG  
 AATCATCAGAGACTGTATTGGCACTTGTAACTGTATTTCTCCATTAAGTACTTCAGTGATTTCCGACC  
 TTATTTCACTATTCATGATAGTGAATTCAAAGAATACTACCCGTACGCAAGCTCCGCCCTCAGTTATA  
 TTAGGATAACCAACCCTTTTTTGCTAAGCACTCCAGCACTGGCCACACATTATTCGAATAGGAGACC  
 TTAACCTACAGGTGAAATTCCTAAGCAGTTAAAGTGAACCAACTGAAGAATCTAAAGACTCGGATTC  
 CAAACCTGGAGTTTATACCTTCATATAAGCCATTTTAAATAGAGATGAAGAGATCATAAAACAATTACAG  
 AAGGGTGTACAACAGAAACGTCCTTCTGAGGCTCAAAGTGTATTCTTCGACGCTATTTTTTGAAGTGA  
 CACAAAGTTTCATCATTCCATTAGAAAGATATGTGGCAAGCTTGTGCCTTTGCAGAAAAGTATTTCCC  
 ATGGAAGAGTCCACCTCAATTAAGACAGTTTCTCCAGAAGAATTTATGAAAACACTTGAGAAAACAGGA  
 CCTCAGCTAACCTCTAGAATAAAAGGCGATTGGATTGGACTTTACCGGCATTTCTAAAGTCTCAAATT  
 TTGATGGCTGGTTAAGACCCGGAGGAAGGAAATGACCAAAAATGGAGGCACTCCATCTAGAAGCTCT  
 TTGTGAAGAGGACTTACTTCTGATCCAGAAACACACAGAAGTAGAAACAGTAGACCTTGTCTTGAAG  
 CTGAAAAATAAGCTGTTGACGGCTGATCGAGAGCACTTACCTGTGAAACCTGACACTATGAAAAAGTTAC  
 GGACACACATAGATGCCATTATCTTAGCATTGCCAGAGGACTTGAAGGCATACTGCTCAAACGGGCAT  
 GACA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207268 representing NM\_152678  
 Red=Cloning site Green=Tags(s)

MALRGPAGLPGSRRPLDEAVAGAEGREAPALVAAGGAPEDDEEDDGRGRGLLRWDSFSAWLHCVCVVG  
 DLELGQAVEVIYPQHSKLTDRKTNICYLSFPDSNSGCLGDTQFCFRFRQSSGRRVSLHCLLDQFDKDL  
 VYLKDPAYFYGYVFRQVRDKTLKRGYFQKSLVLSKLPYIHFHTVLKQIAPEYFEKNEPYLEAACND  
 VDRWPAPVPGKTLHLPIMGVVMKVRIPCHDKPGTTQIVQLTQQVDTNISVILPTVHEVDIFRCFCPVFL  
 HSQMLWELVLLGEPLVVMAPSPSESSETVLALVNCISPLKYFSDFRPFYTIHDSEFKEYTTRTQAPPSVI  
 LGVTNPFPAKTLQHPHIIIRIGDLKPTGEIPKQVKVKKLKNLKTLDSPKGVYTSYKPYLNRDEEIIKQLQ  
 KGVQQRPSAQSVILRRYFLELTQSFIIPLERYVASLMPLQKSI SPWKSPPQLRQFLPEEFMKTLEKGT  
 PQLTSRIKGDWIGLYRHFLKSPNFDGWFKTRRKEMTQKLEALHLEALCEDLLLWIQKHTEVETVDLVLK  
 LKNKLLQADREHLPVKPDTMEKLRTHIDAILALPEDLQGILLKTGMT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_152678

**ORF Size:** 1824 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\\_152678.1](#), [NP\\_689891.1](#)

**RefSeq Size:** 4689 bp

**RefSeq ORF:** 1827 bp

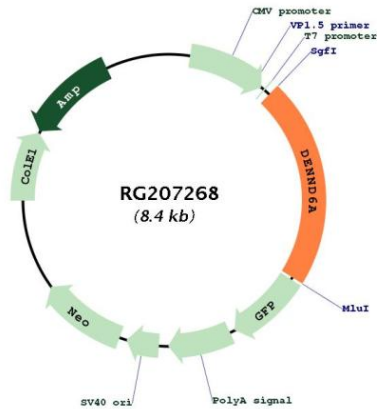
**Locus ID:** 201627

**UniProt ID:** [Q8IWF6](#)

**Cytogenetics:** 3p14.3

**Gene Summary:** Guanine nucleotide exchange factor (GEF) for RAB14. Component of an endocytic recycling pathway that is required for the control of ADAM10 transport, shedding of N-cadherin/CDH2 by ADAM9 or ADAM10 and regulation of cell-cell junctions. Required for RAB14 recruitment to recycling endosomes.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG207268