

## Product datasheet for **RG207879**

### FRMD8 (NM\_031904) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FRMD8 (NM_031904) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FRMD8
Synonyms:	FKSG44; iTAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG207879 representing NM\_031904  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGGGACAGAAGGCAGTGCCTGGGAGCCCGCCCGCTGAGCGATCCCACCAAGCAGCGTGTCTCT  
 CCGTGGGAGCCGAGCGGCTGACGTGCTGGTATACCTAGCGGATGACACGGTGGTCCCCCTGGCTGTGGA  
 GAACCTGCCCTCGCTCAGTGCCCATGAGCTGCACCGCGCTGTCCGCGAGGTCCTGCAGCTCCAGACATC  
 GCCCTGGATGTCTTCGCGCTCTGGCTGGTCTCCCTCTGCTGGAGGTGCAGCTGAAACCAAGCACCAGC  
 CCTACAAGCTGGGACGCCAGTGGCCGAGCTGCTGCTGCGCTTACCAGTGCCCCAGATGATGACGTGGC  
 CATGGATGAGCCTTCTGCAGTCCGAAGAACGTGTTCTTCCAAAGCGGCGGGAGCTCCAGATCCAT  
 GACGAGGAGGTCCTGCGGCTGCTATGAGGAGGCCAAGGGCAACGTGCTGGCTGCACGGTACCCGTGCG  
 ACGTGGAGGACTGCGAGGCTCTGGGCGCCCTGGTGTGCCGCTGCAGCTGGGCCCTACCAGCCCGGCC  
 GCCGGCAGCCTGCGACCTGAGGGAGAAGCTGGACTCCTTCTCCCTGCCACCTCTGTAAGCGGGCCAG  
 AGTCTCTTTGCTGCCCTCCGGGGCCGTGGGGCCAGGGCCGGGCCGGCGAGCAGGGCCTGCTGAACGCCT  
 ACCGCCAGGTGCAGGAGGTCAGCAGCGACGCGGGTGCAGGCGCCCTGGGCACCCACTACCGCGCCTA  
 TCTCTCAAGTGCCACGAGCTGCCGTTTTATGGGTGTGCCTTCTTCCACGGTGAAGGTTGACAAGCCGGCC  
 CAAGGCTTTTTGCACCGGGTGGGCGCAAGCCAGTTTCTGTGGCCATCAGTCTGGAAGGCGTGCACGTCA  
 TCGATAGCAGAGAGAAGCATGTCTGCTGGGCTGCGCTTCCAGGAGCTGTCGTGGGACCACACCTCCCC  
 CGAGGAGGAGGCCATCTTGTGGTGGAGTTCGACGGGACAGCGAGGGCACACCTGTCAACAAGCTC  
 CTCAAGATCTACTCAAGCAGGCCGAAGTATGAGCAGTCTCATTGAGTACTGCATCGAAGTGAAGCCAGC  
 CGCGGGAGCCCGCAGGCCCCAGGACAGTGCAGCTGGCTCGCCCTCGGACCCAGCTCCTCACTGGCTCC  
 TGTTACGCGCCCCAAGCTGCGGAGGCAGGGCAGTGGTGTCCAGCCGGATCCAGCATCTCTCCACCATC  
 GACTACGTGGAGGACGGCAAGGGGATCAGGCGAGTGAAGCCGAAGCGCACACATCTTCTTCCAGCCGG  
 AGCTGTCTTGGGCCAGGGGAGCTACACCGTGGTGCAGCCCGGCGACAGCCTGGAGCAGGGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG207879 representing NM\_031904  
 Red=Cloning site Green=Tags(s)

MDGTEGSAGQPGPAERSHRSSVSSVGARAADVLYLADDTVVPLAVENLPSLSAHELHRAVREVLQLPDI  
 ALDVFALWLVSPLEEVQLKPKHQPYKLGRQWPELLLRFTSAPDDDVAMDEPFLQFRRNVFFPKRRELQIH  
 DEEVLRLLYEEAKGNVLAARYPCDVEDCEALGALVCRVQLGPYQPRPAACDLREKLSFLPAHLCKRGQ  
 SLFAALRGRGARAGPGEQGLLNAYRQVQEVSSDGGCEAALGTHYRAYLLKCHELPHYGCAFFHGEVDKPA  
 QGFLHRGGRKPVSVAIISLEGVHVIDSREKHVLLGLRFQELSWDHTSPEEEEEPILWLEFDGDSEGTVPVNL  
 LKIIYSKQAEMLSSLIEYCIELSQAAPAGPQDSATGSPSDPSSSLAPVQRPKLRQGSVSVSRIQHLSTI  
 DYVEDGKGIIRRVKPKRTTSFFSRQLSLGQGSYTVVQPGDSLEQG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_031904

**ORF Size:** 1392 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\\_031904.2](#), [NP\\_114110.1](#)

**RefSeq Size:** 3693 bp

**RefSeq ORF:** 1395 bp

**Locus ID:** 83786

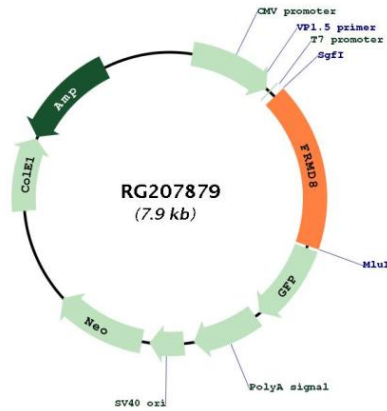
**UniProt ID:** [Q9BZ67](#)

**Cytogenetics:** 11q13.1

**Domains:** B41

**Gene Summary:** Promotes the cell surface stability of iRhom1/RHBDF1 and iRhom2/RHBDF2 and prevents their degradation via the endolysosomal pathway. By acting on iRhoms, involved in ADAM17-mediated shedding of TNF, amphiregulin/AREG, HBEGF and TGFA from the cell surface (PubMed:29897333, PubMed:29897336). Negatively regulates Wnt signaling, possibly by antagonizing the recruitment of AXIN1 to LRP6 (PubMed:19572019).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG207879