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Product datasheet for RC207879

FRMD8 (NM_031904) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRMD8 (NM_031904) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FRMD8
Synonyms:	FKSG44; iTAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC207879 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGGGACAGAAGGCAGTGCCGGGCAGCCCGGCCCCGCTGAGCGATCCCACCGAAGCAGCGTGTCCT
CCGTGGGAGCCCGAGCGGCTGACGTGCTGGTATACCTAGCGGATGACACGGTGGTGCCCCTGGCTGTGGA
GAACCTGCCCTCGCTCAGTGCCCATGAGCTGCACCGCGCTGTCCGCGAGGTCCTGCAGCTTCCAGACATC
GCCCTGGATGTCTTCGCGCTCTGGCTGGTCTCCCCTCTGCTGGAGGTGCAGCTGAAACCCAAGCACCAGC
CCTACAAGCTGGGACGCCAGTGGCCGGAGCTGCTGCTGCGCTTCACCAGTGCCCCAGATGATGACGTGGC
CATGGATGAGCCTTTCCTGCAGTTCCGAAGGAACGTGTTCTTCCCAAAGCGGCGGGAGCTCCAGATCCAT
GACGAGGAGGTCCTGCGGCTGCTCTATGAGGAGGCCAAGGGCAACGTGCTGGCTGCACGGTACCCGTGCG
ACGTGGAGGACTGCGAGGCTCTGGGCGCCCTGGTGTGCCGCGTGCAGCTTGGGCCCTACCAGCCCGGCCG
GCCGGCAGCCTGCGACCTGAGGGAGAAGCTGGACTCCTTCCTCCCTGCCCACCTCTGTAAGCGGGGCCAG
AGTCTCTTTGCTGCCCTCCGGGGCCGTGGGGCCAGGGCCGGGCCGGGCGAGCAGGGCCTGCTGAACGCCT
ACCGCCAGGTGCAGGAGGTCAGCAGCGACGGCGGGTGCGAGGCCGCCCTGGGCACCCACTACCGCGCCTA
TCTCCTCAAGTGCCACGAGCTGCCGTTTTATGGGTGTGCCTTCTTCCACGGTGAGGTTGACAAGCCGGCC
CAAGGCTTTTTGCACCGGGGTGGGCGCAAGCCAGTTTCTGTGGCCATCAGTCTGGAAGGCGTGCACGTCA
TCGATAGCAGAGAGAAGCATGTCCTGCTGGGCCTGCGCTTCCAGGAGCTGTCGTGGGACCACACCTCCCC
CGAGGAGGAGGAGCCCATCTTGTGGCTGGAGTTCGACGGGGACAGCGAGGGCACACCTGTCAACAAGCTC
CTCAAGATCTACTCCAAGCAGGCCGAACTGATGAGCAGTCTCATTGAGTACTGCATCGAACTGAGCCAGG
CGGCGGAGCCCGCAGGCCCCCAGGACAGTGCGACTGGCTCGCCCTCGGACCCCAGCTCCTCACTGGCTCC
TGTTCAGCGCCCCAAGCTGCGGAGGCAGGGCAGTGTGGTGTCCAGCCGGATCCAGCATCTCTCCACCATC
GACTACGTGGAGGACGGCAAGGGGATCAGGCGAGTGAAGCCGAAGCGCACCACATCCTTCTTCAGCCGGC
AGCTGTCCTTGGGCCAGGGGAGCTACACCGTGGTGCAGCCCGGCGACAGCCTGGAGCAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207879 protein sequence
Red=Cloning site Green=Tags(s)

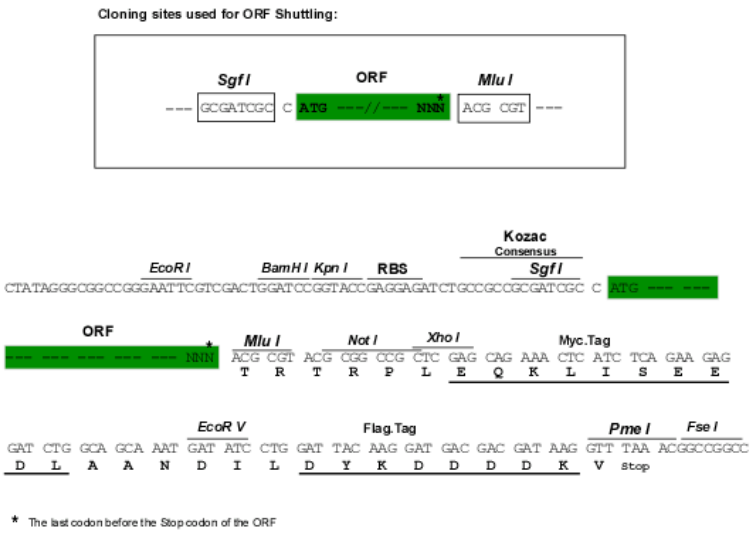
MDGTEGSAGQPGPAERSHRSSVSSVGARAADVLVYLADDTVVPLAVENLPSLSAHELHRAVREVLQLPDI
ALDVFALWLVSPLLEVQLKPKHQPYKLGRQWPELLLRFTSAPDDDVAMDEPFLQFRRNVFFPKRRELQIH
DEEVLRLLYEEAKGNVLAARYPCDVEDCEALGALVCRVQLGPYQPGRPAACDLREKLDSFLPAHLCKRGQ
SLFAALRGRGARAGPGEQGLLNAYRQVQEVSSDGGCEAALGTHYRAYLLKCHELPFYGCAFFHGEVDKPA
QGFLHRGGRKPVSVAISLEGVHVIDSREKHVLLGLRFQELSWDHTSPEEEEPILWLEFDGDSEGTPVNKL
LKIYSKQAELMSSLIEYCIELSQAAEPAGPQDSATGSPSDPSSSLAPVQRPKLRRQGSVVSSRIQHLSTI
DYVEDGKGIRRVKPKRTTSFFSRQLSLGQGSYTVVQPGDSLEQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6343_h07.zip

Restriction Sites: SgfI-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: 3774 bp

RefSeq ORF: 1395 bp

Locus ID: 83786

UniProt ID: Q9BZ67

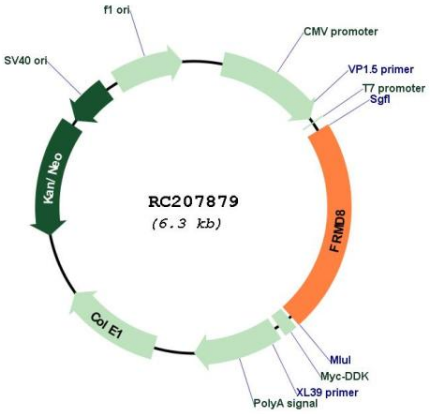
Cytogenetics: 11q13.1

Domains: B41

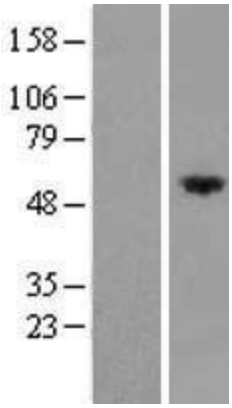
MW: 51.2 kDa

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]

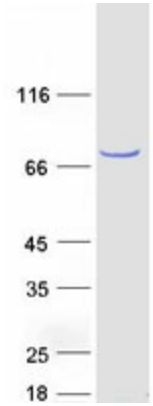
Product images:



Circular map for RC207879



Western blot validation of overexpression lysate (Cat# [LY410451]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207879 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FRMD8 protein (Cat# [TP307879]). The protein was produced from HEK293T cells transfected with FRMD8 cDNA clone (Cat# RC207879) using MegaTran 2.0 (Cat# [TT210002]).