

## Product datasheet for **RC214964**

### **RHBDF2 (NM\_001005498) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RHBDF2 (NM_001005498) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RHBDF2
Synonyms:	iRhom2; RHBDL5; RHBDL6; TEC; TOC; TOCG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC214964 representing NM\_001005498  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTCTGCTGACAAGAATGGCGGGAGCGTGTCTCTGTGTCCAGCAGCCGCCTCGAGAGCCGGAAGC  
 CACCCAACCTCTCCATCACCATCCCGCCACCCGAGAAAGAGACCCAGGCCCTGGCGAGCAGGACAGCAT  
 GCTGCCTGAGAGGAAGAACCAGCCTACTTGAAGAGCGTCAGCCTCCAGGAGCCACGCAGCCGATGGCAG  
 GAGAGTTCAGAGAAGCGCCCTGGCTTCCGCCGCCAGGCCACTGTCCCAGAGCATCCGCAAGGGCGCAG  
 CCCAGTGGTTTGGAGTCAGCGGCGACTGGGAGGGGCGAGCGGCAGCAGTGGCAGCGCCGACGCTGCACCA  
 CTGCAGCATGCGCTACGGCCGCCTGAAGGCCTCGTGCCAGCGTGACCTGGAGCTCCCCAGCCAGGAGGCA  
 CCGTCTTCCAGGGCACTGAGTCCCAAGCCCTGCAAGATGCCAAGATTGTGGATCCGCTGGCCCGGG  
 GCCGGGCTTCCGCCACCCGAGGAGATGGACAGGCCCCAGCCCGCACCCACCCTGACCCCGGAGT  
 CCTGTCCCTCACCTCCTTACCAGTGTCCGTTCTGGCTACTCCACCTGCCACGCCGCAAGAGAATGTCT  
 GTGGCCACATGAGCTTGAAGCTGCCGCTGCCCTCCTCAAGGGGCGCTCGGTGCTGGATGCCACCGGAC  
 AGCGGTGCCGGTGGTCAAGCGCAGCTTGGCTTCCCGAGCTTCTGGAGGAGGATGTGGTCTGATGGGGC  
 AGACACGTTTGACTCCTCTTTTTAGTAAGGAAGAAATGAGCTCCATGCCTGATGATGTCTTTGAGTCC  
 CCCCCACTCTCTGCCAGTACTTCCGAGGGATCCACACTCAGCCTCCCCGTCTCCCCGATGGGGTGC  
 AAATCCCTCTGAAGGAGTATGGCCGAGCCCCAGTCCCCGGGCCCCGGCGCGGCAAGCGCATCGCCTCAA  
 GGTGAAGCACTTTGCCTTGTATCGGAAGAAGCGGCACTACGGCTCGGCGTGGTGGGCAACTGGCTGAAC  
 CGCAGTACCGCCGCGAGCATCAGCAGCACTGTGCAGCGGCACTGGAGAGCTTCGACAGCCACCGGCCCT  
 ACTTCACCTACTGGCTGACCTTCTGTCATGTATCATCACGCTGCTGGTATTGACGATGGCAGTGC  
 ACCCGTGGGCTTTGCCACAGCACGTCAACCACCCAGCTGGTGTGCGGAACAAGGTGTGTACGAGAGCGTG  
 AAGTACATCCAGCAGGAGAACTTCTGGGTTGGCCCCAGCTCGATTGACCTGATCCACCTGGGGGCAAGT  
 TCTCACCTGCATCCGGAAGGACGGGCAGATCGAGCAGCTGGTGTGCGCGAGCGAGACCTGGAGCGGGA  
 CTCAGGCTGTGTGTCAGAATGACCACTCCGGATGCATCCAGACCCAGCGGAAGGACTGCTCGGAGACT  
 TTGGCCACTTTTGTCAAGTGGCAGGATGACACTGGGCCCCCCATGGACAAGTCTGATCTGGGCCAGAAGC  
 GGACTTCGGGGGCTGTCTGCCACCAGGACCCAGGACCTGCGAGGAGCCAGCCTCCAGCGGTGCCACAT  
 CTGGCCCGATGACATCACTAAGTGGCCGATCTGCACAGAGCAGGCCAGGAGCAACCACACAGGCTTCTG  
 CACATGGACTGCGAGATCAAGGGCCGCCCTGCTGCATCGGCACCAAGGGCAGCTGTGAGATCACCAACC  
 GGAATACTGTGAGTTTATGCACGGCTATTTCCATGAGGAAGCAACTCTGCTCCAGGTGCACTGCTT  
 GGACAAGGTGTGTGGGCTGCTGCCCTTCTCAACCCTGAGGTCCCAGATCAGTTCTACAGGCTCTGGCTG  
 TCTCTTCTTCTACATGCTGGCGTGGTGCCTCGTGTCTGTGGTCTTTCAAATGACCATCCTGAGGG  
 ACCTGGAGAAGCTGGCCGGCTGGCACCGTATCGCCATCATCTTATCCTCAGTGGCATCACAGGCAACCT  
 CGCCAGTGCCATCTTCTCCATACCGGGCAGAGGTGGGCCCGGCCGGCTCACAGTTCGGCCTCCTCGCC  
 TGCCCTTTCGTGGAGCTTTCAGAGCTGGCCGCTGCTGGAGAGGCCCTGGAAGGCCTTCTCAACCTCT  
 CGGCCATCGTGTCTTCTGTTTCATCTGTGGCTCCTGCCCTGGATCGACAACATCGCCACATCTTCGG  
 CTTCTCAGTGGCCTGCTGCTGGCCTTCGCCTTCTGCCCTACATCACCTTCGGCACCGGACAGGATAC  
 CGCAAGCGGGCACTCATCTGGTGTCACTGCTGGCCTTTCGCCGGCTTTCGCCCGCCTCCTGCTGTGGC  
 TGTACATCTACCCATTAAGTGGCCCTGGATCGAGCACCTCACCTGCTTCCCCTTACCAGCGCTTCTG  
 CGAGAAGTATGAGCTGGACCAGGTGCTGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC214964 representing NM\_001005498  
Red=Cloning site Green=Tags(s)

MASADKNGGSVSSVSSSRLQSRKPPNLSITIPPPEKETQAPGEQDSMLPERKNPAYLKSVSLQEPRSRWQ  
ESSEKRPGRFRQASLSQIRKGAQWFGVSGDWEGQRQWQRRSLHHCSMRYGRLKASCQRDLELPSQEA  
PSFQGTESPKCKMPKIVDPLARGRAFRHPEEMDRPHAPHPPLTPGVLSLTSFTSVRSYGSHLPRKRMS  
VAHMSLQAAAALLKGRSVLDATGQRCRVVKRSFAFPFLFLEEDVVDGADTFDSSFFSKEEMSSMPDDVFES  
PPLSASYFRGIPHSASPVSPDGVIPLKEYGRAPVPGPRRGKRIASKVKHFAFDRKKRHYGLGVVGNWLN  
RSYRRISSTVQRQLESFDSHRPYFTYWLTFVHVIIITLLVICTYGIAPVGFAQHVTTLQLVLRNKGYESV  
KYIQQENFWVGPSSIDL IHLGAKFSPCIRKDGQIEQLVLRERDLERDSGCCVQNDHSGCIQTQRKDCSET  
LATFVKWQDDTGPPMDKSDLGQKRTSGAVCHQDPRTCEEPASSGAHIWPDDITKWPICTEQARSNHTGFL  
HMDCEIKGRPCCIGTKGSCIEITREYCEFMHGYFHEEATLCSQVHCLDKVCGLLPFLNPEVPDQFYRLWL  
SLFLHAGVVHCLVSVVFQMTILRDLEKLAGWHRIAIIFILSGITGNLASAIFLPYRAEVGPAGSQFGLLA  
CLFVELFQSWPLLERPWKAFLNLSAIVLFLFICGLLPWIDNIAHIFGFLSGLLLAFALPYITFGTSDKY  
RKRALILVSLLAFLAGLFAALVLWLYIYPINWPWIEHLTCFPFTRFCEKYELDQVLH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001005498

**ORF Size:** 2481 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\\_001005498.4](#)

**RefSeq Size:** 3453 bp

**RefSeq ORF:** 2484 bp

**Locus ID:** 79651

**UniProt ID:** [Q6PIF5](#)

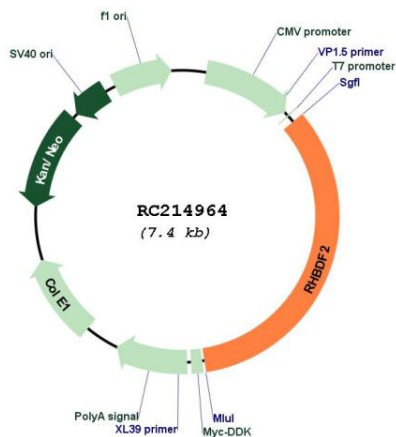
**Cytogenetics:** 17q25.1

**Protein Families:** Protease, Transmembrane

**MW:** 93.4 kDa

**Gene Summary:** Regulates ADAM17 protease, a sheddase of the epidermal growth factor (EGF) receptor ligands and TNF, thereby plays a role in sleep, cell survival, proliferation, migration and inflammation. Does not exhibit any protease activity on its own.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC214964