

Product datasheet for **RC203923**

RHBDF2 (NM_024599) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RHBDF2 (NM_024599) 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:

>RC203923 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCTGCTGACAAGAATGGCGGGAGCGTGTCTCTGTGTCCAGCAGCCGCCTCGAGAGCCGGAAGC
 CACCCAACCTCTCCATCACCATCCCGCCACCCGAGAAAGAGACCCAGGCCCTGGCGAGCAGGACAGCAT
 GCTGCCTGAGGGTTTTTCAGAATAGGAGGCTAAAGAAAAGCCAGCCAGGACCTGGGCTTCACACACCACC
 GCCTGCCCTCCCTCCTTCTCCCAAGAGGAAGAACCAGCCTACTTGAAGAGCGTCAGCCTCCAGGAGC
 CACGCAGCCGATGGCAGGAGAGTTTCAGAGAAGCGCCCTGGCTTCCGCCGCCAGGCCTCACTGTCCCAGAG
 CATCCGCAAGGGCGCAGCCAGTGGTTTGGAGTCAGCGGCAGTGGGAGGGGCAGCGGCAGCAGTGGCAG
 CGCCGCAGCCTGCACCACTGCAGCATGCGCTACGGCCGCTGAAGGCCTCGTGCCAGCGTGACCTGGAGC
 TCCCCAGCCAGGAGGCACCGTCTTCCAGGGCACTGAGTCCCCAAAGCCCTGCAAGATGCCCAAGATTGT
 GGATCCGCTGGCCCGGGCCGGGCTTCCGCCACCCGGAGGAGATGGACAGGCCCCACGCCCTGCACCCA
 CCGCTGACCCCCGGAGTCTGTCCCTCACTCCTTCAACAGTGTCCGTTCTGGTACTCCCACCTGCCAC
 GCCGCAAGAGAATGTCTGTGGCCACATGAGCTTGAAGCTGCCGCTGCCCTCCTCAAGGGGCGCTCGGT
 GCTGGATGCCACCGACAGCGGTGCCGGTGGTCAAGCGCAGCTTTCCTTCCGAGCTTCTGGAGGAG
 GATGTGGTCGATGGGGCAGACAGTTTACTCCTCTTTTTAGTAAGGAAGAAATGAGCTCCATGCCTG
 ATGATGTCTTTGAGTCCCCCACTCTCTGCCAGTACTTCCGAGGGATCCCACACTCAGCCTCCCTGT
 CTCCCCGATGGGGTCAAATCCCTCTGAAGGAGTATGGCCGAGCCCCAGTCCCCGGGCCCGCGCGGC
 AAGCGCATCGCCTCAAAGTGAAGCACTTTGCCTTTCGGAAGAAGCGGCAGTACGGCCTCGGCGTGG
 TGGCAACTGGCTGAACCGCAGTACCGCCGAGCATCAGCAGCACTGTGCAGCGGCAGTGGAGAGCT
 CGACAGCCACCGCCCTACTTCACTACTGGCTGACCTTCGTCCATGTCATCATCAGCTGCTGGTGATT
 TGCACGTATGGCATCGCACCCGTGGGCTTTCGCCAGCACGTACCCACCCAGCTGGTGCTGCGGAACAAAG
 GTGTGTACGAGAGCGTGAAGTACATCCAGCAGGAGAACTTCTGGGTTGGCCCCAGCTCGATTGACCTGAT
 CCACCTGGGGGCAAGTTCTCACCTGCATCCGGAAGGACGGGCAGATCGAGCAGCTGGTGTGCGCGAG
 CGAGACCTGGAGCGGGACTCAGGCTGCTGTGTCCAGAATGACCACTCCGGATGCATCCAGACCCAGCGGA
 AGGACTGCTCGGAGACTTTGGCCACTTTTGTCAAGTGGCAGGATGACACTGGGCCCCCATGGACAAGTC
 TGATCTGGGCCAGAAGCGGACTTCGGGGCTGTCTGCCACCAGGACCCAGGACCTGCGAGGAGCCAGCC
 TCCAGCGGTGCCACATCTGGCCGATGACATCACTAAGTGGCCGATCTGCACAGAGCAGGCCAGGAGCA
 ACCACACAGGCTTCTGCACATGGACTGCGAGATCAAGGGCCGCCCTGCTGCATCGGCACCAAGGGCAG
 CTGTGAGATCACCAACCCGGAATACTGTGAGTTTATGCACGGCTATTTCCATGAGGAAGCAACACTCTGC
 TCCCAGGTGCACTGCTTGGACAAGGTGTGTGGGCTGCTGCCCTTCTCAACCCTGAGGTCCCAGATCAGT
 TCTACAGGCTCTGGCTGTCTCTTCTACATGCTGGCGTGGTGCAGTGCCTCGTGTCTGTGGTCTTTCA
 AATGACCATCCTGAGGGACCTGGAGAAGCTGGCCGGTGGCACCGTATCGCCATCATCTTCATCCTCAGT
 GGCATCACAGGCAACCTCGCCAGTGCCATCTTTCTCCATACCGGGCAGAGGTGGGCCGGCCGGCTCAC
 AGTTCGGCCTCCTCGCTGCCTCTTCTGTGGAGCTTCCAGAGCTGGCCGCTGCTGGAGAGGCCCTGGAA
 GGCCTTCTCAACCTCTCGGCCATCGTGCTCTTCTGTTTTCATCTGTGGCCTCCTGCCCTGGATCGACAAC
 ATCGCCACATCTTCGGCTTCTCAGTGGCTGCTGCTGGCCTTCGCCTTCTGCCCTACATCACCTTCG
 GCACCAGCGACAAGTACCGCAAGCGGGCACTCATCCTGGTGTCACTGCTGGCCTTTCGCCGCTCTTCGC
 CGCCCTCGTGTGGTGTACATCTACCCATTAAGTGGCCCTGGATCGAGCACCTCACCTGCTTCCCC
 TTCACCAGCCGCTTCTGCGAGAAGTATGAGCTGGACCAGGTGCTGCAC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203923 protein sequence
 Red=Cloning site Green=Tags(s)

MASADKNGGSVSSVSSSRLQSRKPPNLSITIPPPEKETQAPGEQDSMLPEGFQNRRLKKSQPRTWASHTT
 ACPPSFLPKRKNPAYLKSIVSLQEPRSRWQESSEKRPGRFRQASLSQSIRKGAAQWFGVSGDWEGQRQWQ
 RRSLHHCMSRYGRLKASCQRDLELPSQEAPSFQGTESPKPCKMPKIVDPLARGRAFRHPEEMDRPHALHP
 PLTPGVLSLTSFTSVRSGYSHLPRRKRMSVAHMSLQAAAALLKGRSVLDATGQRCRVVKRSFAFSPFLEE
 DVVDGADTFDSSFFSKEEMSSMPDDVFEPPLSASYFRGIPHSASPVSPDGVQIPLKEYGRAPVPGPRRG
 KRIASKVKHFAFDRKKRHYGLGVVGNWLNRSYRRSISSTVQRQLESFDSHRPYFTYWLTFVHVIITLLVI
 CTYGIAPVGFQAQHVTTQLVLRNKGYYESVKYIQQENFWVGPSIDLIHLGAKFSPCIRKDGQIEQLVIRE
 RDLERDSGCCVQNDHSGCIQTQRKDCSETLATFVKWQDDTGPPMDKSDLGQKRTSGAVCHQDPRTCPEPA
 SSGAHIWPDITKWPICTEQARSNHTGFLHMDCEIKGRPCCIGTKGSCEITTREYCEFMHGYFHEEATLC
 SQVHCLDKVCGLLPFLNPEVPDQFYRLWLSLFLHAGVVHCLVSVVFQMTILRDLEKLAGWHRIAIIIFILS
 GITGNLASAIFLRYAEVGPAGSQFGLLAFLVQLFQSWPLLERPWKAFNLNSAIVLFLFICGLLPWIDN
 IAHIFGFLSGLLLAFALPYITFTGTSKYRKRALILVSLLAFLAGLFAALVLWLYIYPINWPWIEHLTCFP
 FTSRFCEKYELDQVLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6141_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

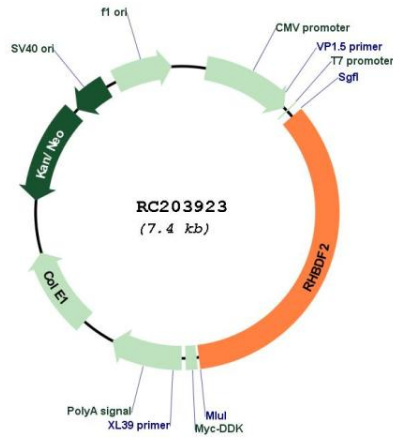
Cloning sites used for ORF Shuttling:



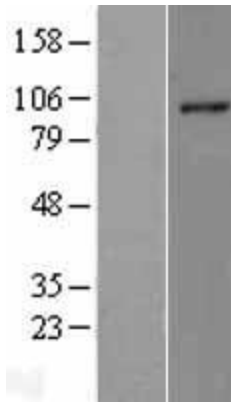
* The last codon before the Stop codon of the ORF

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|-------------------------------|---|
| ACCN: | NM_024599 |
| ORF Size: | 2568 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: | <ol style="list-style-type: none">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_024599.2 , NP_078875.2 |
| RefSeq Size: | 3615 bp |
| RefSeq ORF: | 2571 bp |
| Locus ID: | 79651 |
| UniProt ID: | Q6PJF5 |
| Cytogenetics: | 17q25.1 |
| Protein Families: | Protease, Transmembrane |
| MW: | 96.7 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 RC203923



Western blot validation of overexpression lysate (Cat# [LY403008]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203923 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).