

Product datasheet for **RR201047**

Rhbdf1 (NM_001030034) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rhbdf1 (NM_001030034) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rhbdf1
Synonyms:	MGC124815
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR201047 representing NM_001030034
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGAAGCCCGAGAGACAGTACTAGCAGTCTGCAACGCAAGAAACCCCGTGGCTCAAGTTGGACA
 TCCCAGCTGTGGTGCCCCAGCAGCAGAAGAGCCAGCTTCTCGAGCCCTGCGGCGACAGGCTTTCCT
 GCGGAGTGTGAGTATGCCGGCTGAGACAGCCCGTGTCCCGTCACCCACCATGAGCCTCGCGGCTGGCG
 CTGCGAGCTCAGACATCCATCACGCAGACCATCCGCAGGGGACAGCTGACTGGTTTGGAGTGAAGG
 ACAGTGACAGCACCCAGAAGTGGCAGCGTAAGAGCATCCGTCAGTGCAGCCAGCGATATGGGAAGCTAAA
 GCCACAGTCCATCCGGGAGCTGGACCTGCCAGCCAGGACAATGTGTGCTGACCAAGTGCAGACCCG
 CCTCCACTCTATGTGGGGCCATGCCAGCTGGGAATGCAGAAGATCATAGACCCTCTGGCCCGAGGCCGGG
 CCTTCCGATGGCCGATGACACCCCGATGGCCTGAGTGCACCCACACTCCCGTCACACAGGTGCTGC
 CTCCTCTGTTCCTTCTCAGCTCCCGCTCAGGTTTCAACCGGCTCCCTCGGCGTCGAAACGTGAATCC
 GTGGCCAAAGATGAGCTTCCGGGCGCTGCAGCGCTGGTGAAGGGTCGGTCTATTAGGGATGGCACTTTAC
 GAAGGGGACAGCGTCGGAGCTTTACTCCTGCCAGCTTCTGGAGGAAGACATGGTGGACTTCCCTGATGA
 GCTGGATACATCTTTCTTGGCCGGGAAGGTGTCTCCATGAGGAGCTGTCCACGTACCCAGATGAGGTG
 TTTGAGTCCCATCAGAAGCAGCGCTCAAGGACTGGGAGAAAGCCCGGATCAGGAGACCTTACGGGTG
 GGGCCCTGGACCGCAGCGAGCTCGAGCGAAGCCACTTGATGTTACCCCTGGAACGAGGCTGGAGGAAGCA
 GAAGGAAGGCGGCACGCTAGCCCCGAGCCCAAGTGGGCTTCGCCAGGAGGTGGTCAAGTGCAGTGGC
 CCCAGGAGGGGTGAGCGTATCGCTGTGCCAGTGCAGCAAGCTTTCGCCCGGAAAAACGGCCGTATGGTC
 TGGGGATGGTGGGACGGCTCACCAACGCACGTACCGAAACGGATTGACAGTACGTCAAGCGGAGT
 AGAAGACATGGATGATCACAGGCCCTTCTCACTTACTGGCTCACCTTCGTGCACTCCCTGGTACCATT
 CTGGCTGTGTGTACTACGGCATCGCGCTGTGGGCTTCTCGCAGCACGAGACGGTGGACTCGGACTTTC
 GGAAGCGGGGTGTCTATGAGAATGTCAAATACGTCCAGCAGGAGAACTTCTGGATTGGCCCCAGCTCGGA
 GGCCCTCATTACCTGGGTGCCAAGTTCTCCCCCTGCATGCGCCAGGACCCACAGGTGCACAACCTTATC
 CTTGCTGCCCGGAGCGTGAAAAGCACTCAGCCTGCTGTGTGCGCAATGACCGGTCTGGCTGTGTGAGA
 CGTCGAAGGAGGAGTGTCTGTACGTTGGCAGTGTGGTGAAGTGGCCGTTTATCCTAGTGTCCCGA
 CCTGGCAGGCAACAAGAGGCAGTTTGGTCTGTGTGCCACCAGGACCCAGGGTGTGTGATGAGCCTTCC
 TCTGAGGATCCCAAGAGTGGCCAGAAGATATACCAAGTGGCCGATCTGCACCAAAAACAGCGCGGGGA
 ACCACACTAACCCCTCACATGGACTGTGTATACCGGGCAGGCCCTGTGCATCGGCACCAAGGGCAG
 GTGTGAGATCACCTCCCGGAGTACTGTGACTTATGAAGGGCTACTTCCATGAGGAGGCCACACTCTGC
 TCTCAGGTGCACTGCATGGACGATGTCTGTGGCCTCCTGCCTTTCCTCAATCCCGAGGTGCCTGACCA
 TCTACCGCTGTGGCTGTCCCTTCTCTGCAGCTGGGATCCTGCAGTGTGGTGTCCGTCTGCTTCCA
 GATGACGGTCTGCGGGACCTGGAGAAGCTGGCAGGCTGGCACCAGCATAGCCATCATCTACCTGTGAGC
 GGTGTACGGGCAATCTAGCCAGCGCCATCTTCTGCCGTACCGGCAGAGGTAGGTCCGGCCGGCTCCC
 AGTTTGGTATCCTGGCCTGTCTCTTTGTGGAGCTATTCCAGAGCTGGCAGATCCTGGCCCGACCTGGCG
 TGCCTTCTCAAGCTCCTGGCCGTGGTGTCTTCTCTTTGCCTTTGGGCTGCTGCCCTGGATCGACAAC
 TTGCCCCACATCTCAGGTTTCGTACGCGCCTTCTCTTTCTTTGCCTTCTGCCTTACATCAGCTTTG
 GCAAGTTCGACCTGTACCGCAAGCGTTGCCAGATCATCATCTTCCAGGCCGTCTTCTGGCCCTGTGGC
 CGGCTGGTGGTCTTCTATTTCTACCCAGTGCCTGTGAATGGTGTGAGTTCCTCACCTGCATCCCC
 TTCACAGACAAGTTCTGTGAGAAGTACGAGCTGGATGCTCAGCTCCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201047 representing NM_001030034
 Red=Cloning site Green=Tags(s)

MSEARRDSTSSLQRKKPPWLKLDIPAVVPPAAEEPSFLQPLRRQAFLRSVSMPAETARVPSPHHEPRRLA
 LQRQTSITQTIRRGTDWFGVSKDSDSTQKWQRKSIRHCSQRYGKLPQVIRELDLPSQDNVSLTSTETP
 PPLYVGPCQLGMQKIIDPLARGRAFRMADDTADGLSAPHTPVTPGAASLCSFSSSRSGFNRLPRRRKRES
 VAKMSFRAAAALVKGRSIRDGTLRRGQRRSFTPASFLEEDMVDFPDELDTFFFAREGVLHEELSTYPDEV
 FESPSEAALKDWEKAPDQADLTGGALDRSELERSHLMLPLERGWKQKEGGTLAPQPKVRLRQEVVSAAG
 PRRGQRIAVPVRKLFAREKRPYGLGMVGRLTNRTYRKRIDSYVKRQIEDMDDHRPFPTYWLTFFVHSLVTI
 LAVCIYGIAPVGFSGHETVDSVLRKRGVYENVKYVQENFWIGPSSEALIHLGAKFSPCMRQDPQVHNFI
 LAAREREKHSACCVRNDRSGCVQTSKEECSSTLAVVWKWPVHPSAPDLAGNKRQFGSVCHQDPRVCDEPS
 SEDPHEWPEDITKWPICKNSAGNHTNHPHMDCVITGRPCCIIGTKGRCEITSREYCDFMKGYFHEEATLC
 SQVHCMDVCGLLPFLNPEVPDQFYRLWLSLFLHAGILHCLVSVCFQMTVLRDLEKLAGWHRIAIYLLS
 GVTGNLASAIFLPHYRAEVPAGSQFGILACLFVELFQSWQILARPWRAFFKLLAVVLFVFAFGLLPWIDN
 FAHISGFVSGFLSFAFLPYISFGKFDLYRKRQIIFQAVFLGLLAGLVVLFYFYPVRCWECEFLTCIP
 FTDKFCEKYELDAQLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

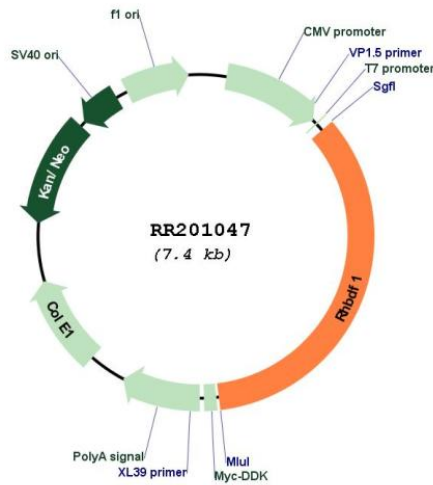
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001030034
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_001030034.1 , NP_001025205.1
RefSeq Size:	2943 bp
RefSeq ORF:	2571 bp
Locus ID:	303008
UniProt ID:	Q499S9
Cytogenetics:	10q12
MW:	97.3 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]