

Product datasheet for **RR200863**

Brms1 (NM_001009605) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Brms1 (NM_001009605) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Brms1
Synonyms: MGC95128
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR200863 representing NM_001009605
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCATCCAGCCTTCAGGGAAAGAAACAGAAGAGATGGAGGCAGAAGGCGATTACGCAGCTGAGATGA
ACGGGGAGGCAGATGAGAGTGAGGAGGAACGGAGCGCCAGCCAGACTGAGTCAGAGGAGGAGAGCTCAGA
GATGGATGACGAGGACTATGAGCGGCCCGCAGTGAGTGTGTGAGTGTGCTGGACCTGGAAAAGCAG
TTCTCGGAGCTGAAGGAGAAGTTGTTTCAGGGAACGGCTGAGCCAGCTGCGATTACGACTGGAGGAAGTGG
GGGCCGAGAGAGCCCAAGATATACAGAGCCTCTTGGAGGGCTACAGCAGAGCCTAAAGATTCGTATTCA
GGTGGCAGGGATCTACAAGGGCTTCTGTCTGGATGTGATCAGGAATAAGTATGAATGTGAACTACAGGGA
GCCAAACAGCACCTCGAGAGTGAGAAGCTGCTGTGTATGACACACTGCTTGGGGAGCTGCAGGAGCGGA
TCCAGAGGCTGGAGGAGGACAGACAGAGCCTGGACATCAGCTCTGAGTGGTGGGACGACAACTACATAG
CAGGGGCAGTTTGAAGACCTGGGACTCAGTGCCACCCAGCAAGAGGAAGAAGGCACCACTCGTTTCTGGC
CCATACATTGTGTACATGCTGCAGGAGATCGACATCCTGGAAGACTGGACGGCCATCAAAAAGGCCAGGG
CAGCAGTGTCCCCTCAGAAGAGAAAAGCAGATGGACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR200863 representing NM_001009605
Red=Cloning site Green=Tags(s)

MPIQPSGKETEEAEGDSAAEMNGEADESEEEERSGSQTSEEEESSEMDDYERRRSECVSEMLDLEKQ
 FSELKEKLFRRERLSQLRLLEEVGAEAPEYTEPLGGLQQSLKIRIQVAGIYKGFCLDVIRNKYECELQG
 AKQHLESEKLLL YDTLLGELQERIQRLEEDRQSLDISSEWDDKLHSRGSKKTWDSVPPSKRKKAPLVSG
 PYIVYMLQEIDILEDWTAIKKARAAVSPQKRKADGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001009605

ORF Size: 738 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_001009605.1](#), [NP_001009605.1](#)

RefSeq Size: 1343 bp

RefSeq ORF: 741 bp

Locus ID: 293668

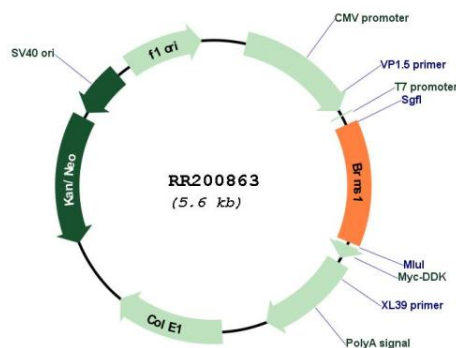
UniProt ID: [Q5M7T3](#)

Cytogenetics: 1q43

MW: 28.3 kDa

Gene Summary: Transcriptional repressor. Down-regulates transcription activation by NF-kappa-B by promoting the deacetylation of RELA at 'Lys-310'. Promotes HDAC1 binding to promoter regions. Down-regulates expression of anti-apoptotic genes that are controlled by NF-kappa-B. Promotes apoptosis in cells that have inadequate adherence to a substrate, a process called anoikis, and may thereby inhibit metastasis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR200863