

Product datasheet for **MR219863**

Brk1 (NM_133937) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Brk1 (NM_133937) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Brk1

Synonyms: 6720456B07Rik; AW011779

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR219863 representing NM_133937
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGACAAGAGGATCCGGTGCAGCGGGAGATTCACCAGGACTGGCGAACC GGGAGTACATTGAGA
TCATCACCAGCAGCATCAAGAAATCTCAGACTTTCTCAACTCTTTCGATATGCTTGTCTGTTCAAGACT
CGCAACTAAATGAAAATTGACAGCCCTTGAACGGAGAATAGAGTACATTGAAGCGAGGGTGACAAAG
GGTGAGACTCTGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219863 representing NM_133937
Red=Cloning site Green=Tags(s)

MAGQEDPVQREIHQDWANREYIEIITSSIKKISDFLNSFDMSCRSRLATLNEKLTALERRIEYIEARVTK
GETLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9053_b12.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_133937

ORF Size: 225 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_133937.1](#), [NP_598698.1](#)

RefSeq Size: 1110 bp

RefSeq ORF: 228 bp

Locus ID: 101314

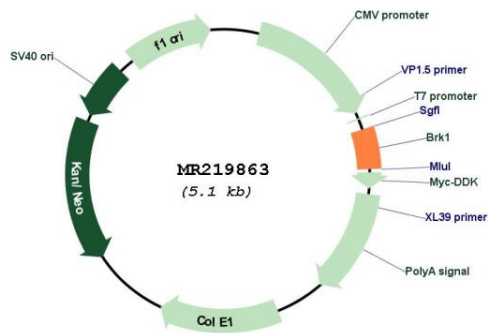
UniProt ID: Q91VR8

Cytogenetics: 6 E3

MW: 9.2 kDa

Gene Summary: Involved in regulation of actin and microtubule organization. Part of a WAVE complex that activates the Arp2/3 complex (By similarity). As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (PubMed:27605705).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219863