

Product datasheet for **MR216338**

Borcs5 (NM_001170479) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Borcs5 (NM_001170479) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Borcs5
Synonyms: 5830457J20Rik; AW124643; Loh12cr1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216338 representing NM_001170479
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGTACCACTGAGAACAGCAACACTGGTGTACAGGCATCTGGAGCCTAGAAAAAAGTGACTCCAT
 CTCCGGCTAAACATCGGGCCAAGATGGACGATATCGTGGTGGTAGCTCAGGGCTCTCAGGCCACACGGAA
 TGTCAGCAATGACCCCGATGTCAAGCTACAAGAGATTCCAACCTCCAGCCCCTTTAAAAGGGCTC
 TTGAGTGGACAGACTTCCCAACCAATGCCAACTGGAGAAGCTAGACTCTCAGCAGGTGCTGCAGCTCT
 GCCTCCGGTACCAGGATCACCTGCACCAGTGCAGAGGCAGTGGCTTTCGATCAGAATGCTCTAGTCAA
 GCGAATCAAAGAGATGGATCTGTCCGTGAAACCCTCTTTTGCTTCATGCAGGAGCGCCAGAAAAGATAC
 GCCAAGTATGCAGAGCAGATCCAGAAGGTGAATGAGATGTCGGCCATCCTGCGCCGATCCAGATGGGCA
 TAGACCAGACGGTGCCACTGATGGAGCGGCTGAACAGCATGCTGCCAGAGGCTGAGCGCCTGGAGCCCT
 CAGCATGAAGCCTGAGCGGGAGCGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216338 representing NM_001170479
 Red=Cloning site Green=Tags(s)

MPVPLRTATLVYRHLEPRKQVTPSPAKHRKMDDIVVVAQGSQASRNVSNDPDVIKLEIPTFQPLLKGL
 LSGQTSPTNAKLEKLDSSQVQLCLRYQDHLHQCAEAVAFDQNALVKRIKEMDLSVETLFCFMQERQKRY
 AKYAEQIQKVNEMSAILRRIQMIDQTVPLMERLNSMLPEAERLEPF SMKPERERH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001170479

ORF Size: 588 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_001170479.1](#), [NP_001163950.1](#)

RefSeq Size: 1635 bp

RefSeq ORF: 591 bp

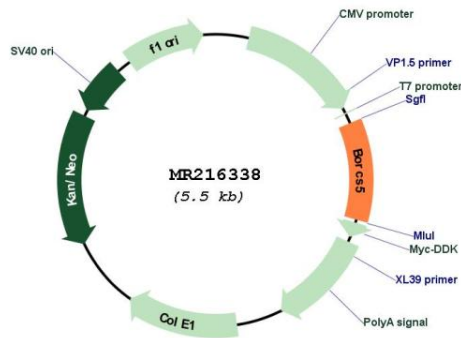
Locus ID: 67774

UniProt ID: [Q9D920](#)

Cytogenetics: 6 G1
MW: 23 kDa

Gene Summary: As part of the BORC complex may play a role in lysosomes movement and localization at the cell periphery. Associated with the cytosolic face of lysosomes, the BORC complex may recruit ARL8B and couple lysosomes to microtubule plus-end-directed kinesin motor. Thereby, it may indirectly play a role in cell spreading and motility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216338