

## Product datasheet for RC236297

### BORCS5 (NM\_001300742) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BORCS5 (NM\_001300742) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** BORCS5  
**Synonyms:** LOH1CR12; LOH12CR1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236297 representing NM\_001300742  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACTCCTTCACCAGCCAAGCATAGAGCCAAGATGGATGATATTGTGGTTGTAGCTCAGGGCTCCCAGG  
CCTCACGGAACGTCAGCAACGATCCCGATGTCATCAAGTTGCAAGAGATCCAACCTTCCAGCCCCTTTT  
GAAAGGGCTATTGAGTGGCCAGACTTCCCCAACAAATGCCAAATTGGAGAACTGGACTCTCAGCAGGTG  
TTGCAGCTCTGCCTCCGATATCAAGATCACCTGCATCAGTGTGCAGAGGCCGTTGCTTTTGACCAGAATG  
CTTTGGTTAAACGAATCAAAGAGATGGATCTGTCTGTAGAACTCTGTTCACTCATGCAGGAGCGCCA  
GAAAAGATACGCCAAGTATGCCGAGCAGATCCAGAAAGTGAACGAGATGTCCGCCATCCTCCGCCGATA  
CAGATGGGCATCGACCAGACTGTGCCCTGCTGGACAGGCTCAACAGCATGCTGCCCGAGGGCGAGCGGC  
TGGAGCCCTTCAGCATGAAGCCCGACCGGAGCTCAGGCTG

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236297 representing NM\_001300742  
Red=Cloning site Green=Tags(s)

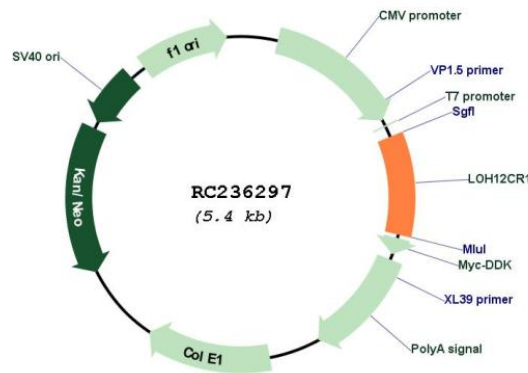
MTPSPAKHRAKMDDIVVVAQGSQASRNVSNDPDIKLEIPTFQPLLKGLLSGQTSPTNAKLEKLDSSQV  
LQLCLRYQDHLHQCAEAVAFDQNALVKRIKEMDLSVETLFSFMQERQKRYAKYAEQIQVNMESAILRRI  
QMGIDQTVPLLDRLNSMLPEGERLEPFMSMKPDRELRL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001300742

**ORF Size:** 531 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001300742.3</a>
<b>RefSeq Size:</b>	1701 bp
<b>RefSeq ORF:</b>	534 bp
<b>Locus ID:</b>	118426
<b>UniProt ID:</b>	<a href="#">Q969J3</a>
<b>Cytogenetics:</b>	12p13.2
<b>MW:</b>	20.7 kDa
<b>Gene Summary:</b>	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]