

Product datasheet for **RG236297**

BORCS5 (NM_001300742) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BORCS5 (NM_001300742) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BORCS5
Synonyms: LOH1CR12; LOH12CR1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236297 representing NM_001300742.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTCCTTCACCAGCCAAGCATAGAGCCAAGATGGATGATATTGTGGTTGTAGCTCAGGGCTCCCAG
GCCTCACGGAACGTACGCAACGATCCCGATGTCATCAAGTTGCAAGAGATTCCAACCTTCCAGCCCTT
TTGAAAGGGCTATTGAGTGGCCAGACTTCCCAACAAATGCCAAATGGAGAACTGGACTCTCAGCAG
GTGTTGCAGCTCTGCCTCCGATATCAAGATCACCTGCATCAGTGTGCAGAGGCCGTTGCTTTTGACCAG
AATGCTTTGGTTAAACGAATCAAAGAGATGGATCTGTCTGTAGAACTCTGTTCCAGTTCATGCAGGAG
CGCCAGAAAAGATACGCCAAGTATGCCGAGCAGATCCAGAAAGTGAACGAGATGTCGCCATCCTCCGC
CGCATACAGATGGGCATCGACCAGACTGTGCCCTGCTGGACAGGCTCAACAGCATGCTGCCCGAGGGC
GAGCGGCTGGAGCCCTTACGATGAAGCCCGACCGCAGCTCAGGCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236297
Blue=ORF Red=Cloning site Green=Tag(s)

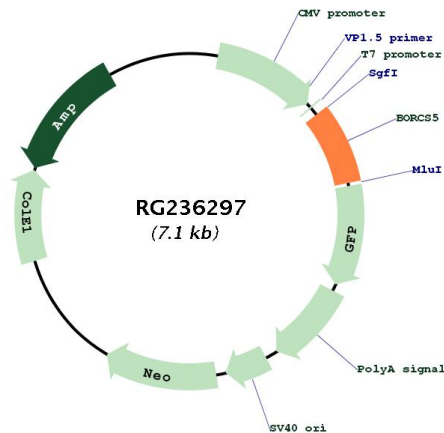
```
MTPSPAKHRAKMDDIVVVAQGSQASRNVSNDPDIKLEIPTFQPLLKLLSGQTSPTNAKLEKLDSSQ
VLQLCLRYQDHLHQCAEAVAFDQNALVKRIKEMDL SVETLFSFMQERQKRYAKYAEQIQKVNEMSAILR
RIQMIDQTVPLLDRLNSMLPEGERLEPF SMKPDRELRL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLVHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



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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.

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).
RefSeq:	<u>NM_001300742.3</u>
RefSeq Size:	1701 bp
RefSeq ORF:	534 bp
Locus ID:	118426
UniProt ID:	<u>Q969J3</u>
Cytogenetics:	12p13.2
MW:	20.7 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]