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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:

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>RG236297 representing NM_001300742.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTCCTTCACCAGCCAAGCATAGAGCCAAGATGGATGATATTGTGGTTGTAGCTCAGGGCTCCCAG
GCCTCACGGAACGTCAGCAACGATCCCGATGTCATCAAGTTGCAAGAGATTCCAACCTTCCAGCCCCTT
TTGAAAGGGCTATTGAGTGGCCAGACTTCCCCAACAAATGCCAAATTGGAGAAACTGGACTCTCAGCAG
GTGTTGCAGCTCTGCCTCCGATATCAAGATCACCTGCATCAGTGTGCAGAGGCCGTTGCTTTTGACCAG
AATGCTTTGGTTAAACGAATCAAAGAGATGGATCTGTCTGTAGAAACTCTGTTCAGCTTCATGCAGGAG
CGCCAGAAAAGATACGCCAAGTATGCCGAGCAGATCCAGAAAGTGAACGAGATGTCCGCCATCCTCCGC
CGCATACAGATGGGCATCGACCAGACTGTGCCCCTGCTGGACAGGCTCAACAGCATGCTGCCCGAGGGC
GAGCGGCTGGAGCCCTTCAGCATGAAGCCCGACCGCGAGCTCAGGCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAAAC
```

Protein Sequence:

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

MTPSPAKHRAKMDDIVVVAQGSQASRNVSNDPDVIKLQEIPTFQPLLKGLLSGQTSPTNAKLEKLDSQQ
VLQLCLRYQDHLHQCAEAVAFDQNALVKRIKEMDLSVETLFSFMQERQKRYAKYAEQIQKVNEMSAILR
RIQMGIDQTVPLLDRLNSMLPEGERLEPFSMKPDRELRL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

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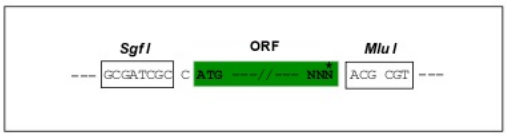
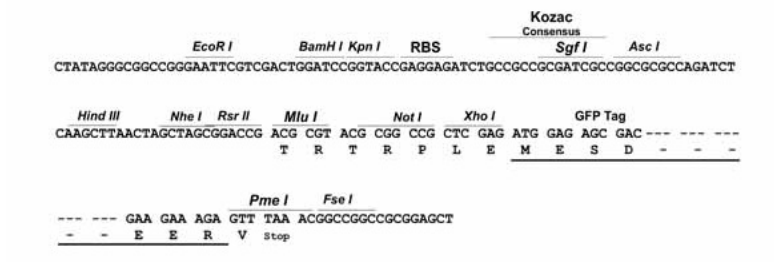
Cloning Scheme:





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:	NM_001300742.3
RefSeq Size:	1701 bp
RefSeq ORF:	534 bp
Locus ID:	118426
UniProt ID:	Q969J3
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]

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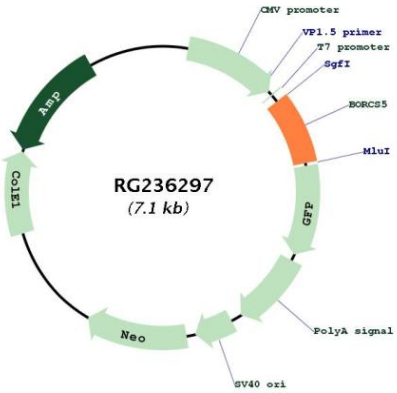
Product images:



Circular map for RG236297

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