

Product datasheet for **RR213677**

Bora (NM_001013997) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bora (NM_001013997) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bora
Synonyms:	RGD1309522
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR213677 representing NM_001013997
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAGATGTCAGCGAATTAATAATGCAATAACACCAGCAACTCCAGGAAGGATCCCTGTTTTAAATC
 CCTTTGAAAGTCCAGTGATTATTCTAATCTCCATGAACAAACCCTTGCTAGTCCTTCTGTCTTTAAGTC
 CACAAAATACCAACTCCAGGGGAATTTAGGTGGTCTATTGATCAGCTGGCTGTAATAAATCCTGTAGAA
 ATAGACCCAGAGGAGATTCATCGTCAGGCTTCTACTTAAGTCTTTCTCGAATAGATAAAGATGTGGAAG
 ACAAAGACAAAAGGCCATTGAAGAGTTTTTACTAAAGATGTCATTGTGCCCTCGCCCTGGACCGATCA
 TGATGGAAAACAGCCTCCGAGCTTCATCCAGTAAATGCCTAACTAGCAATGGTACTCTCCTGTTGGG
 AAAAAGCCGAGTCTCCCTTCTCAGAAATGCAATGCTGCCTGCCAGACTCTGTTGTCTCTTCTGTGGATT
 TTAATTTGGAAGCCGTATTAGGAGACTACTTTAGAGCGGATGACTCTGTGGACCAATCTCCCGGAACT
 CAGTTCTTCGTCTCTCAGGAGAAAGCTCTTTTAGACGTGAATGGGAGCATCTCCGACTCCTTACCTTCA
 GCTTCTCCAGAAGTCTCCCAACAGTGCCCGAGGATCTCTTGAGGGACAGTTTTCTTCCAGCCCCATTC
 AGAACAAATGCAAAAAAGTACAGTTTGGGAAGCTTAACCACCAGCCATCGGCTATCTGTTACCTACGTT
 CTCACCAATTGCACTTCAAGTAGGAAAGACACCACTGTGACAGCACAGGAAGTTTACATTTATTCTCCT
 GAAGCTTCTCTGGAGGAAGTTCTACTGGGATTGCTAATCCAAGCATCAGGAGTCCATATATAGATGGCT
 GCTCACCAATTAATAATTTGGTCTCCTCGGGACTCAGAGGTGGTCTCAGTATTTGTCGTCAGTATTTCG
 GGTACCTTTTGTCTTGAGACTCACAGTGAAGTGAAGAAGACAACGTTTCTCCACAGATGTGGCTGCA
 CTGGGCACAAATGCTGTGGCAGCCCCCTTCCAGCAGTTGGACTGTGAGCCTTTGGCTTGTGGCGACCTT
 TCGTTGTCAGTGCCATGCCTGTCACTCAGAGTCACTAGTACCTGTGAGAAAAGACCTAGGCTGCTGGG
 GGACTTTGAAAGTGAAGGGACCATGACACCGTGGATATGGTCGATCCGATAGACACAGCGGATGAAAGC
 ACGTGGATAAAAAGAGCCCGTGGTAATGGGAATTCACCCATGGCTGAGTTTGTGAGTGAATTCCTTCA
 GCATTGAGAACTCCACATGTGCATGTACCTCTTGCAGAGAGCAGTGTCTGCCCTGTGAAAGCAGTAA
 TGTCCAGATGGACAGTGGCTATAACACACAGACTTGTGGAAGTAATCACTGATATTGTTGGGACAGAA
 AGCTACTGCAAAGAAAATGTCACACAGTCTTTGAAGCACAAATGAAACCTCAAGTTAATAACATAAAGC
 AAGATCACACTGTGCAGAGGTGTGGATGAAAACATAAGTCCATCTCAGTGCAGCAGCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213677 representing NM_001013997
 Red=Cloning site Green=Tags(s)

MGDVSELKMQITPATPGRIPVLPNFESPDSYLNHEQTLASPSVFKSTKLPTEGFRWSIDQLAVINPVE
 IDPEEIHRQASYLSL SRIDKDVEDKRQKAIEEFFTKDVI VSPWTDHDGKQPSELHPSKCLTSNGDSPVG
 KKPSPSPQKCNAAQC TLLSLPVDFNLEAVLGDYFRADDSVDQSPGNLSSSSLRRKFLFDVNGSISDSLPS
 ASPRSPNSARGSLQGFSSSPIQNNAKKYSLSLTTSPSAICSPTFSPIALQVGKTPLEHRKFTFHSP
 EASSGGSSTGIANPSIRSPYIDGCSPIKNWSPRGLRGGPQYLSLIRVPFALETHSEDEEDNVSSTDVAA
 LGTNAVAAPLQQLDCEPLACGDPFVVSAMPVTQSQSSTCEKDLGLLGFESERDHTVDMVDPIDTADES
 TWIKEPVGNGNSPMAEFVSGIAFSIENSHMCSPLAESSVLPCESSNVQMDSGYNTQTCGSNITDIVGTE
 SYCKENVTSFEAQMKPQVNNIKQDHTVQRCWMKTTSPSQCSSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001013997

ORF Size: 1602 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_001013997.1](#), [NP_001014019.1](#)

RefSeq Size: 2109 bp

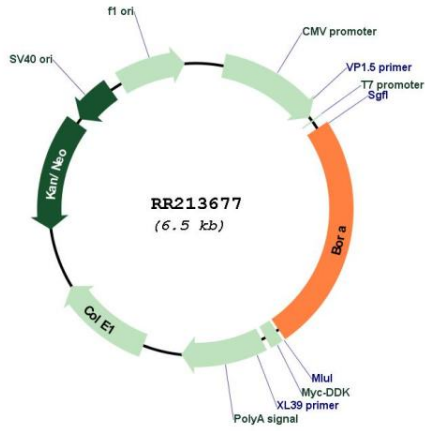
RefSeq ORF: 1605 bp

Locus ID: 306102

UniProt ID: [Q5M864](#)

Cytogenetics: 15q21
 MW: 57.6 kDa
 Gene Summary: Required for the activation of AURKA at the onset of mitosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR213677