

## Product datasheet for **RG203359**

### **BORA (NM\_024808) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BORA (NM_024808) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BORA
Synonyms:	C13orf34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203359 representing NM\_024808  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGAGATGTCAAGGAATCAAAGATGCAATAACACCAGAACTCCAGGAAGGATCCCTGTTTTAAATC  
 CTTTTGAAAGTCCTAGTATTCTAATCTCCATGAACAACTCTGCCAGTCCTCTGTTTTAAATC  
 AACAAAATTACCAACTCCAGGAAATTTAGATGGTCTATTGATCAACTAGCTGTAATAAATCCTGTAGAA  
 ATAGACCCAGAAGATATTCATCGTCAAGCTTTATACTTAAGTCATTCTCGAATAGATAAAGATGTGGAAG  
 ACAAAGACAAAAAGCCATTGAAGAGTTTTCTACTAAAGATGTCATCGTACCCTCTCCTGGACTGATCA  
 TGAAGGGAACAGCTTTACAATGTCATTCCAGTAAATGCACTAACATAAATAGTGACTCTCCAGTTGGA  
 AAAAGCTGACCATTCTGAGAAAAGCGATGCTGCTGTGACAGATTGCTGTCTCTCTGTGGATT  
 TTAATTTAGAAAATATATTAGGTGACTATTTAGAGCTGATGAATTTGCAGATCAATCTCCTGGAACT  
 CAGTTCTTCATCCCTCAGAAGAAAGCTGTTTTAGATGGGAACGGAAGCATCTCCGACTCCTTACCTTCG  
 GCTTCTCCCGAAGTCTCACAGTGGTGTCAAACATCACTAGAGATGTTTTATTCAATAGATTTGTCTC  
 CTGTAAGTGTAGGAGCCCTTGACAGACACCAAGTTCGGGGCAGTTTTCTCTAGCCCTATTCAGGCTAG  
 TGCAAAAAATACAGCTTGGGAAGCATAACTAGTCCTTCGCTATTTCTCACCCACTTTCTACCAATT  
 GAATTTAGATAGGAGAGACTCCACTCTCAGAACAAGGAAGTTACTGTTCAATCTCCTGATGCTTCAT  
 CTGGAACAAATCTAATGGGATAACTAATCCGTGTATCAGAAGTCCTTATATAGATGGCTGCTCGCAAT  
 TAAAAATTGGTCTCCTATGAGACTTCAGATGTATAGTGGTGGTACTCAGTATCGGACCTCAGTGATTGAG  
 ATACCTTTACTCTTGAAGTCAAGGTGAAGTGAAGATAAAGAGAATATTCCTTCCACAGATGTCT  
 CATCACCCGCCATGGATGCTGCTGGAATACACCTACGGCAGTTTGTAGTAAAGGCTTCTACCCATGGTAC  
 ACATTTGGTGTGACTGCCATGTCTGTTACACAAAATCAGTCCAGTCTTCTGAGAAAGAATTAGCACTG  
 TTGAGGATGTTGAAAGGAGAAAGACAATAAAGTGTGGATATGGTTGATCCTATAGAGATAGCAGATG  
 AGACCACTGGATTAAGGAGCCGTTGATAATGGCAGTTTACCCATGACTGATTTTGAAGTGGCATTGCT  
 CTTGAGTATTGAAAAGTCTCATATGTGCATGTCACCTCTTGTGAAAGCAGTGTCTTCTGTGAAAGC  
 AGTAACATTGAGATGGATAGTGGCTATAATACGCAGAATTGTGGAAGCAATATTATGGATACAGTTGGG  
 CAGAAAGTACTGCAAAGAAAGTATGCACAAACATGTGAAGTTGAGAGTAAATCTCAAGCATTTAATAT  
 GAAGCAAGACCACACAACACAGAGGTGTGGATGAAAACAGCAAGCCCTTTTCAATGCAGCAGTCCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203359 representing NM\_024808  
 Red=Cloning site Green=Tags(s)

MGDVKESKMQITPETPGRIPVLNPFESPDYSNLHEQTLASPSVFKSTKLPKFRWSIDQLAVINPVE  
 IDPEDIHRQALYLSHSRIDKDVEDKRQKAIEEFFTKDVI VSPWTDHEGKQLSQCHSSKCTNINSDSPVG  
 KKLTIHSEKSDAACQTL LSLPVDFNLENILGDYFRADEFADQSPGNLSSSLRRKFLDGNISIDSLPS  
 ASPGSPHSGVQTSLEMFYSIDLSPVKCRSPLQTPSSGQFSSSPIQASAKKYSLSITSPSPSSPTFSPI  
 EFQIGETPLSEQRKFTVHSPDASSGTNSNGITNPCI RSPYIDGCSPIKNWSPMRLQMYSGGTQYRTSVIQ  
 IPFTLETQGEDEEDKENIPSTDVSSPAMDAAGIHLRQFSNEASTHGTHLVVTAMSVTQNSASEKELAL  
 LQDVEREKDNNVTDMVDPIEIADETTWIKEPVDNGSLPMTDFVSGIAFSIENSHMCMSP LAESSVIPCES  
 SNIQMDSGYNTQNCGSNIMDTVGAESYCKESDAQTCEVESKSQLAFNMKQDHTTQRCWMKTASPFQCSSP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_024808
<b>ORF Size:</b>	1677 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_024808.5</a>
<b>RefSeq Size:</b>	2803 bp
<b>RefSeq ORF:</b>	1680 bp
<b>Locus ID:</b>	79866
<b>UniProt ID:</b>	<a href="#">Q6PGQ7</a>
<b>Cytogenetics:</b>	13q21.33
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	BORA is an activator of the protein kinase Aurora A (AURKA; MIM 603072), which is required for centrosome maturation, spindle assembly, and asymmetric protein localization during mitosis (Hutterer et al., 2006 [PubMed 16890155]).[supplied by OMIM, Mar 2008]