

Product datasheet for **RG238520**

BORA (NM_001286747) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BORA (NM_001286747) 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:

>RG238520 representing NM_001286747.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAACAACTCTCGCCAGTCTTCTGTTTTTAAATCAACAAAATTACCAATAGATAAAGATGTGGAA
GACAAAAGACAAAAGCCATTGAAGAGTTTTTCACTAAAGATGCATCGTACCCTCCTTGGACTGAT
CATGAAGGGAAACAGCTTTCACAATGTCATTCCAGTAAATGCACTAACATAAATAGTGACTCTCCAGTT
GGAAAAAGCTGACCATTATTCTGAGAAAAGCGATGCTGCTTGTGACACATTGCTGTCTTTCCTGTG
GATTTTAAATTTAGAAAATATATTAGGTGACTATTTTAGAGCTGATGAATTTGCAGATCAATCTCCTGGA
AACCTCAGTTCTTCATCCCTCAGAAGAAAGCTGTTTTTAGATGGGAACGGAAGCATCTCCGACTCCTTA
CCTTCGGCTTCTCCCGAAGTCTCACAGTGGTGTCAAACATCACTAGAGATGTTTTATTCAATAGAT
TTGTCTCTGTAAAGTGTAGGAGCCCTTGCAGACACCAAGTTCGGGGCAGTTTTCTTAGCCCTATT
CAGGCTAGTGCAAAAAATACAGCTTGGGAAGCATAACTAGTCTTCGCCTATTTCTTACCACATTTTC
TCACCAATTGAATTTAGATAGGAGAGACTCCACTCTCAGAACAAGGAAGTTTACTGTTTATTCTCCT
GATGCTTCATCTGGAACAAATTCTAATGGGATAACTAATCCGTGTATCAGAAGTCTTATATAGATGGC
TGCTCGCCAATTAATAATTTGGTCTCCTATGAGACTTCAGATGTATAGTGGTGGTACTCAGTATCGGACC
TCAGTGATTAGATACCTTTTACTCTTGAGACTCAAGGTGAAGATGAGGAAGATAAAGAGAATATTCCT
TCCACAGATGTCTCATCACCCGCATGGATGCTGCTGGAATACACCTACGGCAGTTTAGTAAATGAGGCT
TCTACCATGGTACACATTTGGTTGTGACTGCCATGTCTGTTACACAAAATCAGTCCAGTCTTCTGAG
AAAGAATTAGCACTGTTGCAGGATGTTGAAAGGGAGAAAGACAATAACACTGTGGATATGGTTGATCCT
ATAGAGATAGCAGATGAGACCATTGGATTAAGGAGCCGGTTGATAATGGCAGTTTACCCATGACTGAT
TTTGTAAGTGGCATTGCCTTCAGTATTGAAAACCTCATATGTGCATGTCACCTTGTGAAAGCAGT
GTCAATTCCTTGTGAAAGCAGTAACATTCAGATGGATAGTGGCTATAATACGCAGAATTGTGGAAGCAAT
ATTATGGATACAGTTGGGGCAGAAAGTTACTGCAAGAAAGTGTGCACAAAATGTGAAGTTGAGAGT
AAATCTCAAGCATTAATATGAAGCAAGACCACACAACACAGAGGTGTTGGATGAAAACAGCAAGCCCT
TTTCAATGCAGCAGTCCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238520
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MNKLSPVLLFLNQNYQIDKDVEDKRQKAIEEFFTKDVI VSPWTDHEGKQLSQCHSSKCTNINSDSPV
GKKLTIHSEKSDAACQTL LSLPVDNFLENILGDYFRADEFADQSPGNLSSSSLRRKFLFDGNGSISDSL
PSAPSPHSGVQTSLEMFYSIDLSPVKCRSPLQTPSSGQFSSSPIQASAKKYSLSGITSPISSPTF
SPIEFQIGETPLSEQRKFTVHSPDASSGTNSNGITNPCIRSPYIDGCSPIKNWSPMRLQMYSGGTQYRT
SVIQIPFTLETQGEDEEDKENIPSTDVSSPAMDAAGIHLRQFSNEASTHGTHLVVTAMSVTQNQSSASE
KELALLQDVEREKDNNTVDMVDP IEIADETTWIKEPVDNGSLPMTDFVSGIAFSIENSHMCMSPLAESS
VIPCESSNIQMDSGYNTQNGSNIMDTVGAESYCKESDAQTCEVESKSQLAFNMKQDHTTQRCWMKTASP
FQCSSP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

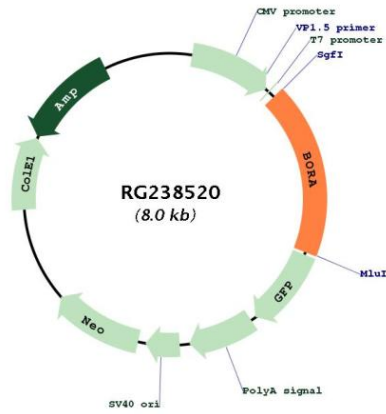
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


- ACCN:** NM_001286747
- ORF Size:** 1467 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_001286747.1](#), [NP_001273676.1](#)
- RefSeq Size:** 2847 bp
- RefSeq ORF:** 1470 bp
- Locus ID:** 79866
- UniProt ID:** [Q6PGQ7](#)
- Cytogenetics:** 13q21.33
- Protein Families:** Druggable Genome
- MW:** 53.9 kDa
- Gene Summary:** 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]

Product images:



Circular map for RG238520