

## Product datasheet for **RG204016**

### **BOP1 (NM\_015201) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BOP1 (NM_015201) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BOP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG204016 representing NM\_015201  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGGTTCGCGGGGTGCGGGGCGCACGGCGGCCGAGCGTGCAGCCGGAGAAGCGGGGTCTGAGC  
CGAACTGGAGCCTGAGCCCGAGCCGGAGCCCCCTCCTCTGCACCTCTCCTCTCAGCCACAGCACCGG  
CAGCGATTCTGGCGTCTCCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAGATTCCGGCAGTGACAGC  
AGTGAGGATGATGACGAAGGCGACGAGGAGGGAGAGGACGGAGCCCTTGATGACGAGGGCCACAGTGGGA  
TAAAAAGACCACTGAGGAGCAGGTGCAGGCCAGCACTCCTTGCCCGAGGACAGAGATGGCGAGCGCCC  
GATTGGGGATGAGTATGCGGAGGACAGCTCTGATGAGGAGGACATCCGGAACACGGTGGGCAACGTGCC  
TTGGAGTGGTACGATGACTTCCCCACGTGGGCTACGACCTGGATGGCAGGCGCATCTACAAGCCCTGC  
GGACCCGGGATGAGCTGGACCAGTTCCTGGACAAGATGGACGATCCTGACTACTGGCGCACCGTGCAGGA  
CCCGATGACAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCCTGGTGCAGGGGCTGCAGAGTGGC  
CAGTTTGGGGATGTGGGCTTCAACCCCTATGAGCCGGCTGTCGACTTCTCAGCGGGGACGTCATGATCC  
ACCCGGTGACCAACCGCCCGGCCGACAAGCGCAGCTTCATCCCCTCCCTGGTGGAGAAGGAGAAGGTCTC  
TCGCATGGTGCACGCCATCAAGATGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCACCCCGACTTC  
TATGACCTGTGGGCCAGGAGGACCCCAACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGCTCCCA  
AGCTGGCCCTGCCAGGCCACGCCGAGTCGTACAACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCG  
CTTGGCGTGGGAACAGCAGGAGCCAGGCCAGAGGAAGCTGAGCTTTTTGCCACGCAAGTTCGAGCCTG  
CGGGCCGTGCCTGCCTACGGACGCTTCATCCAGGAACGCTTCGAGCGCTGCCTTGACCTGTACCTGTGCC  
CACGGCAGCGCAAGATGAGGGTGAATGTAGACCTGAGGACCTCATCCCCAAGCTGCCTCGGCCGAGGGA  
CCTGCAGCCCTTCCCCAGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACCTTGTCCGGTGCCTCAGT  
GTCTCTCCTGGGGCCAGTGGCTGGTTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCTGGGAGGTGGCCA  
CTGCCCGTGTGTGAGGACTGTTCCCGTGGGGGCGTGGTGAAGAGTGTGGCCTGGAACCCAGCCCCGC  
TGTCTGCCTGGTGGTGCAGCCGTGGAGGACTCGGTGCTGCTGCTGAACCCAGCTCTGGGGACCGGCTG  
GTGGCGGCAGCACAGATCAGCTGTTGAGCGCCTTCGTCGCCCTGAGGAGCCCCCTTGCAGCCGGCCC  
GCTGGCTGGAGGCTCAGAGGAGGAGCGCAAGTGGGCTGCGGCTGCGCATCTGCCACGGGAAGCCAGT  
GACGCAGGTGACCTGGCACGGCGTGGGACTACCTGGCCGTGGTGTGCCACCCAAGGCCACACCCAG  
GTGCTGATTCACCAGCTGAGCCGTGCGCGCAGCCAGAGTCCGTTCCGCCAGCCACGGACAGGTGCAGC  
GAGTGGCCTTCCACCCTGCCCGGCCCTTCTGTTGGTGGCGTCCAGCGCAGCGTCCGCCTTACCACCT  
GCTGCGCCAGGAGCTACCAAGAAGCTGATGCCCAACTGCAAGTGGGTGTCCAGCCTGGCGGTGCACCT  
GCAGGTGACAACGTCTGTGGGAGCTACGATAGCAAGCTGGTGTGGTTTGACCTGGATCTTTCCACCA  
AGCCATACAGGATGCTGAGACACCACAAGAAGGCTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACT  
CTTTGCGTCAGGCTCGGACGACGGCAGTGTATCGTCTGCCATGGCATGGTGTACAATGACCTTCTGCAG  
AACCCCTTGTGGTGGCCGTCAAGGTGCTGAAGGGACACGTGCTGACCCGAGATCTGGGAGTGTGGAGC  
TCATCTTCCACCCACCCAGCCGTGGTCTTCTCCTCGGGGCAGACGGGACTGTCCGCCTTCCACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG204016 representing NM\_015201  
 Red=Cloning site Green=Tags(s)

```
MAGSRGAGRTAAPSVRPEKRRSEPELEPEPEPEPPLLCTSPLSHSTGSDSGVSDSEESVFSGLEDSGSDS
SEDDDEGDEEGEDGALDDEGHSGIKKTEEQVQASTPCPRTEMASARIGDEYAEDSSDEEDIRNTVGNVP
LEWYDDFFPHVGYDLDRRIYKPLRTRDELQFLDKMDDPDYWRVQDPMTGRDLRLTDEQVALVRRLQSG
QFGDVGFNYPYPAVDFFSGDVMIHVPVTRNRPADKRSFIPSLVEKEKVSVMVHAIKMGWIQPRRPRDPTPSF
YDLWAQEDPNAVLGRHKMHVPAPKLALPGHAESYNPPPEYLLSEEERLAWEQQEPGERKLSFLPRKFPSL
RAVPAYGRFIQERFERCLDLYLCPRQRKMRVNVDPEDLIPKLP RPRLDQPFPTCQALVYRGHSDLVRCLS
VSPGGQWLVS GSDGSLRLWEVATARCVRTVPVGGVVKVSAWNPSPAVCLVAAAVEDSVLLLNPALGDRL
VAGSTDQLLSAFVPPEEPLQPARWLEAEEERQVGLRLRICHGKPVTVQVWHGRGDYLAVVLTATQHTQ
VLIHQLSRRRSQSPFRRSHGQVQVAFHPARPFLVASQRSVRLYHLLRQELTKKLPNCKWVSSLAVHP
AGDNVICGSYD SKLVWFDDLSTKPYRMLRHHKKALRAVAFHPRYPLFASGSDGDSVIVCHGMVYNDLLQ
NPLLVPVKVLKGHVLRDLGVLDVIFHPTQPWFVSSGADGTVRLFT
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015201

**ORF Size:** 2238 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\\_015201.3](#), [NP\\_056016.1](#)

**RefSeq Size:** 2422 bp

**RefSeq ORF:** 2241 bp

**Locus ID:** 23246

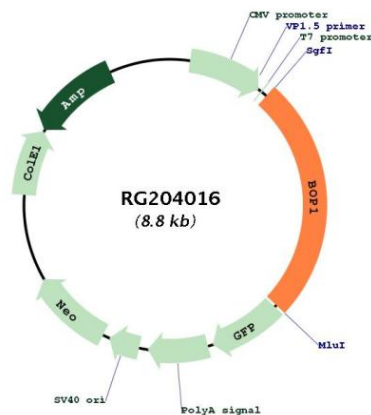
**UniProt ID:** [Q14137](#)

**Cytogenetics:** 8q24.3

**Domains:** WD40

**Gene Summary:** Component of the PeBoW complex, which is required for maturation of 28S and 5.8S ribosomal RNAs and formation of the 60S ribosome.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG204016