

## Product datasheet for **MG210344**

### **Bop1 (NM\_013481) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bop1 (NM_013481) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bop1
Synonyms:	AU020183; AW146150; D18861; Erb1p; Kiaa0124; mKIAA0124
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210344 representing NM\_013481  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGGGGCGTGTGGTAAGCCCCACATGTCACCGGCATCGCTGCCGGGAAACGACGTTTGAACCTG  
ATCAGGAGCTGCAGATACAAGAGCCTCCTCCTCAGCGATCCTGACTCCAGTCTCTCTGACAGCGAGGA  
GAGTGTGTTTTAGCCCTCGAAGATTCGGGCAGTACTCGAGTGAGGAAGACACTGAAGGAGTGCCCGGA  
TCCAGCGGTGACGAAGACAACCATAGGGCAGAGGAGACCTCTGAGGAGCTGGCACAGGCTGCCCTCTTT  
GCTCAAGGACAGAGGAAGCAGGTGCTCTGGCCCAAGATGAATAAAGAGGACAGCTCTGATGAGGAGGA  
CATTTCGGAACACTGTGGCAATGTGCCCTGGCATGGTACGATGAATCCACATGTGGTTATGACCTG  
GATGGCAAACGTATCTACAAGCCCCTGCGGACACGAGATGAGCTCGACCAGTTTCTGGACAAAATGGATG  
ACCCAGATTTCTGGCGCACTGTGAAGACAAGATGACAGGGCGTATCTGCGGCTAACTGATGAGCAGGT  
TGCCCTGGTACACCGGCTTCAGAGAGGCCAGTTCCGGAGATTCAGGCTTCAATCCCTATGAGCCAGCTGTG  
GACTTCTTCAGCGGTGACATCATGATCCACCCTGTGACCAACCGCCAGCTGACAAGCGTAGTTTCATCC  
CATCCCTAGTTGAAAAGGAGAAGGTGTCTCGAATGGTACATGCCATCAAGATGGGGTGGATCAAGCCTCG  
ACGGCCCCACGACCCACCCCTAGCTTCTATGACCTGTGGGCCAGGAGGATCCGAATGCTGTGTTGGGA  
CGCCACAAGATGCATGTGCCTGCCCAAGCTGGCCTTGCTGGCCATGCCGAGTCTTACAACCCACCTC  
CCGAGTACCTGCCACTGAGGAGGAGCGCTCGGCGTGGATGCAGCAGGAGCCTGTGGAGAGGAAGCTTAA  
CTTCTTGCCACAGAAATCCCCAGCTTGAGGACAGTGCCTGCTTACAGCCGCTTCATCCAGGAGCGTTTC  
GAGCGCTGCCTCGATTTGTATCTGTGCCACGGCAACGCAAGATGAGGGTGAATGTGGACCCGAAGACC  
TCATCCCCAAACTCCCTCGGCCAAGAGACCTTCAGCCTTCCCTGTGTGCCAGGCCCTCGTACAGGGG  
CCACAGCGACCTTGTCCGTTGCCTCAGTGTCTCGCCAGGGGCCAGTGGCTAGCTTCAGGTTTCAGACGAT  
GGCAGCTTGAAGCTCTGGGAGGTGGCCACTGCCCGCTGTATGAAGACTGTACATGTTGGAGGTGTGGTGC  
GGAGCATCGCCTGGAACCCCAATCCTACCATATGCCTGGTAGCTGCTGCCATGGATGATGCCGTGTTGCT  
GCTGAACCCAGCCCTGGGGGACCGGCTGCTGGTGGCAGCACAGACCAGCTGCTGGAAGCCTTCACTCCA  
CCTGAGGAGCCAGCTCTGCAGCTGCCCGGTGGCTAGAGGTCTCGGAGGAAGAGCACCAGAGGGGTCTGC  
GCCTACGCATCTGCCACAGCAAACCAAGTACACAGGTGACCTGGCATGGGCGAGGGGACTATTTGGCGGT  
GGTGTGTCTAGTCAAGAGCACACGCAAGTGTCTTACCAGGTGAGCAGGAGGCGCAGCCAGAGCCCCG  
TTCGCGCCGAGCCACGGCAGGTGCAGTGTGTGGCCTTCCATCCCTCCCGCCCTTCTGCTCGTGGCCT  
CCCAGCGCAGCATCCGCATTTACCACCTGCTGCGCCAGGAGCTAACCAAGAAGCTGATGCCCAACTGCAA  
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GTGTGGTTTACCTGGATCTTTCCACCAAGCCATACAAAGTGTGAGGCACCACAAGAAGGCCTTGGCGG  
CTGTGGCCTTCCACCCCGATACCCACTCTTGCATCCGGCTCAGACGACGGCAGTGTTATCGTGTGCCA  
TGGCATGGTGTACAATGACCTGCTGCAGAACCCATTGCTGGTGCCTGTCAAGGTGCTGAAAGGACACACC  
CTGACCCGAGATCTGGGTGTTCTGGATGTGGCCTTCCACCCACACAGCCGTGGGTCTTCTCCTCCGGGG  
CAGATGGCACCATTGACTCTTCAGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG210344 representing NM\_013481  
 Red=Cloning site Green=Tags(s)

MAGACGKPHMSPASLPGKRRLEPDQELQIQEPPLLSDPDSSLSDSEESVFSGLSDSGSDSSEEDTEGVAG  
 SSGDEDNHRAEETSEELAQAAPLCSRTEEAGALAQDEYEEDSSDEEDIRNTVGNVPLAWYDEFPHVGYDL  
 DGKRIYKPLRTRDELDFLDKMDPDFWRTVQDKMTGRDLRLTDEQVALVHRLQRGQFGDSGFNPYEPAV  
 DFFSGDIMIHVPTNRPADKRSFIPSLVEKEKVSVMVHAIKMGWIKPRRPHDPTPSFYDLWAQEDPNAVLG  
 RHKMHVPAPKLALPGHAESYNPPPEYLPTEEERSAWMQQEPVERKLNFLPQKFPVSLRTVPAYSRLFQERF  
 ERCLDLYLCPQRKMRVNVDPEDLIPKLP RPRLDQFPVPCQALVYRGHSDLVRCLSVSPGGQWLASGSD  
 GTLKLWEVATARCMTVHVGGVRSIAWNPNTICLVAAAMDDAVLLNLPALGDRLLVGSTDQLLEAFTP  
 PEEPALQPARWLEVSEEHQRGLRLRICHSKPVTQVTHWGRGDYLA VVLSQEHTQVLLHQVSRRRSQSP  
 FRRSHGQVQCVAFHPSRPFLVASQRSIRIYHLLRQELTKKLM PNCKWVSSMAVHPAGDNIICGSYD SKL  
 VWFDLDLSTKPYKVLRHKKALRAVAFHPRYPLFASGSDDGSVIVCHGMVYNDLLQNPLLVPVKVLKGT  
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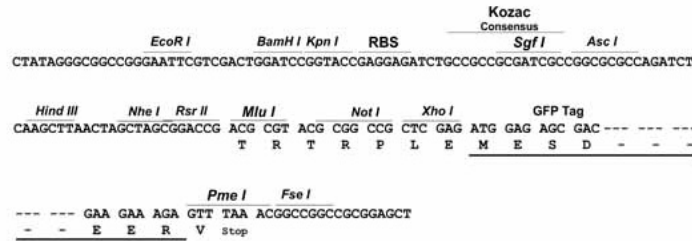
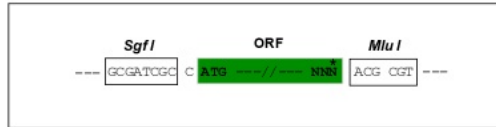
TRTRPLE - GFP Tag - V

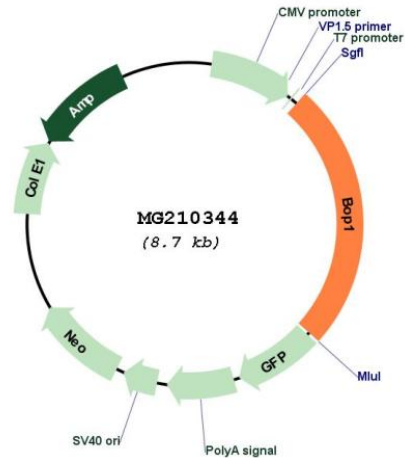
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_013481

**ORF Size:** 2196 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\\_013481.1](#), [NP\\_038509.1](#)

**RefSeq Size:** 2476 bp

**RefSeq ORF:** 2199 bp

**Locus ID:** 12181

UniProt ID: [P97452](#)

Cytogenetics: 15 35.91 cM

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]