

Product datasheet for **RC204016**

BOP1 (NM_015201) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BOP1 (NM_015201) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BOP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204016 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGTTCGCGGGTTCGCGGGCGCACGGCGCCGAGCGTGCAGCCGGAGAAGCGGGTCTGAGC
 CCGAACTGGAGCCTGAGCCCGAGCCGAGCCCCCTCCTCTGCACCTCTCCTCTCAGCCACAGCACCGG
 CAGCGATTCTGGCGTCTCCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAGATTCCGGCAGTGACAGC
 AGTGAGGATGATGACGAAGGCGACGAGGAGGGAGAGGACGGAGCCCTTGATGACGAGGGCCACAGTGGGA
 TAAAAAGACCACTGAGGAGCAGGTGCAGGCCAGCACTCCTTGCCCGAGGACAGAGATGGCGAGCGCCCG
 GATTGGGGATGAGTATGCGGAGGACAGCTCTGATGAGGAGGACATCCGGAACACGGTGGGCAACGTGCC
 TTGGAGTGGTACGATGACTTCCCCACGTGGGCTACGACCTGGATGGCAGGCGCATCTACAAGCCCTGCG
 GGACCCGGGATGAGCTGGACCAGTTCCTGGACAAGATGGACGATCCTGACTACTGGCGCACCGTGCAGGA
 CCCGATGACAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCCTGGTGCAGGGCGCTGCAGAGTGGC
 CAGTTTGGGGATGTGGGCTTCAACCCCTATGAGCCGGCTGTCGACTTCTCAGCGGGGACGTCATGATCC
 ACCCGGTGACCAACCGCCCGGCCGACAAGCGCAGCTTCATCCCCTCCCTGGTGGAGAAGGAGAAGGTCTC
 TCGCATGGTGCACGCCATCAAGATGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCACCCCGAGCTTC
 TATGACCTGTGGGCCAGGAGGACCCCAACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGCTCCCA
 AGCTGGCCCTGCCAGGCCACGCCGAGTCGTACAACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCG
 CTTGGCGTGGGAACAGCAGGAGCCAGGCCAGAGGAAGCTGAGCTTTTTGCCACGCAAGTTCGGAGCCTG
 CGGGCCGTGCCTGCCTACGGACGCTTCATCCAGGAACGCTTCGAGCGCTGCCTTGACCTGTACCTGTGCC
 CACGGCAGCGCAAGATGAGGGTGAATGTAGACCTGAGGACCTCATCCCCAAGCTGCCTCGGCCGAGGGA
 CCTGCAGCCCTTCCCCAGGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACCTTGTCCGGTGCCTCAGT
 GTCTCTCCTGGGGCCAGTGGCTGGTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCTGGGAGGTGGCCA
 CTGCCCGTGTGTGAGGACTGTTCCCGTGGGGGCGTGGTGAAGAGTGTGGCCTGGAACCCAGCCCGC
 TGTCTGCCTGGTGGTGCAGCCGTGGAGGACTCGGTGCTGCTGCTGAACCCAGCTCTGGGGACCGGCTG
 GTGGCGGGCAGCACAGATCAGCTGTTGAGCGCCTTCGTCGCCCTGAGGAGCCCCCTTGCAGCCGGCCC
 GCTGGCTGGAGGCTCAGAGGAGGAGCCCAAGTGGGCTGCGGCTGCGCATCTGCCACGGGAAGCCAGT
 GACGCAGGTGACCTGGCACGGCGTGGGACTACCTGGCCGTGGTGTGCCACCCAAGGCCACACCCAG
 GTGCTGATTCACCAGCTGAGCCGTGCGCGCAGCCAGAGTCCGTTCCGCCAGCCACGGACAGGTGCAGC
 GAGTGGCCTTCCACCCTGCCCGGCCCTTCTGTTGGTGGCGTCCAGCGCAGCTCCGCCTTACCACCT
 GCTGCGCCAGGAGCTACCAAGAAGCTGATGCCCAACTGCAAGTGGGTGTCCAGCCTGGCGGTGCACCT
 GCAGGTGACAACGTCTGTGGGAGCTACGATAGCAAGCTGGTGTGGTTTGACCTGGATCTTTCCACCA
 AGCCATACAGGATGCTGAGACACCACAAGAAGGCTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACT
 CTTTGGCTCAGGCTCGGACGACGGCAGTGTATCGTCTGCCATGGCATGGTGTACAATGACCTTCTGCAG
 AACCCCTTGTGGTGGCCGTCAAGGTGCTGAAGGGACACGTGCTGACCCGAGATCTGGGAGTGTGGAGC
 TCATCTTCCACCCACCCAGCCGTGGTCTTCTCCTCGGGGCAGACGGGACTGTCCGCCTTCCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204016 protein sequence
Red=Cloning site Green=Tags(s)

MAGSRGAGRTAAPSVRPEKRRSEPELEPEPEPEPLLLCTSPLSHSTGSDSGVSDSEESVFSGLEDSGSDS
 SEDDDGEDEEGEDGALDDEGHSGIKKTTTEEQVQASTPCPRTEMASARIGDEYAEDSSDEEDIRNTVGNVP
 LEWYDDFPHVGYDLDRRIYKPLRTRDELQFLDKMDDPDYWRVQDPMTGRDLRLTDEQVALVRRLQSG
 QFGDVGFNPYEPAVDFFSGDVMIHVPTNRPADKRSFIPSLVEKEKVS RMVHAIKMGWIQPRRPRDPTPSF
 YDLWAQEDPNAVLGRHKMHVPAPKLALPGAESYNPPPEYLLSEEERLAWEQEPGERKLSFLPRKFPSL
 RAVPAYGRFIQERFERCLDLYLCPRQRKMRVNVDPEDLIPKLP RPRDLQPFPTCQALVYRGHSDLVRCLS
 VSPGGQWL VSGSDDGSLRLWEVATARCVRTVPVGGVVKVSAWNPSPAVCLVAAAVEDSVLLLNPALGDRL
 VAGSTDQLL SAFVPPEEPLQPARWLEAEEERQVGLRLRICHGKPVTVQVWHGRGDYLA VVLTATQHTQ
 VLIHQLSRRRSQSPFRRSHGQVQVAFHPARPFLLVASQRSVRLYHLLRQELTKKLPNCKWVSSLA VHP
 AGDNVICGSYDKLVWFDDLSTKPYRMLRHHKKALRAVAFHPRYPLFASGSDGDSVIVCHGMVYNDLLQ
 NPLLVPVKVLKGHVLRDLGVLDVIFHPTQPWFVSSGADGTVRLFT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6156_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

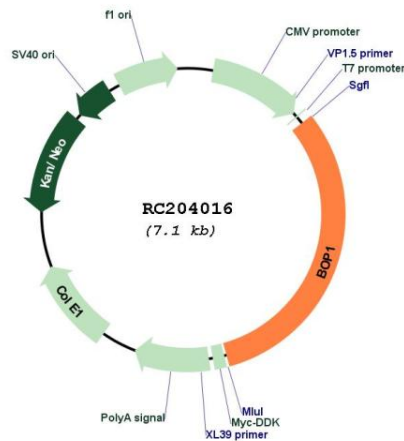
ACCN: NM_015201

ORF Size: 2238 bp

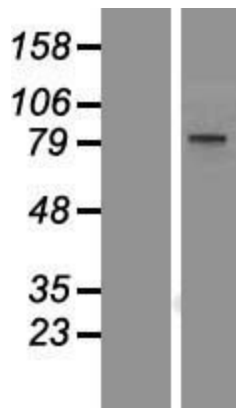
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

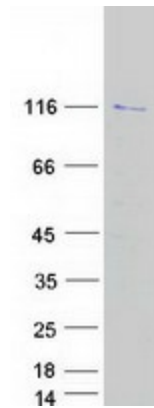
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_015201.3, NP_056016.1</u>
RefSeq Size:	2422 bp
RefSeq ORF:	2241 bp
Locus ID:	23246
UniProt ID:	<u>Q14137</u>
Cytogenetics:	8q24.3
Domains:	WD40
MW:	83.6 kDa
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 RC204016



Western blot validation of overexpression lysate (Cat# [LY414723]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204016 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BOP1 protein (Cat# [TP304016]). The protein was produced from HEK293T cells transfected with BOP1 cDNA clone (Cat# RC204016) using MegaTran 2.0 (Cat# [TT210002]).