

## Product datasheet for MR231693

### Brpf1 (NM\_001282128) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Brpf1 (NM_001282128) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Brpf1
Synonyms:	4833438B11Rik; 4930540D11Rik; Brpf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231693 representing NM_001282128 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGTGGACTTTGACGTGAAGACCTTCTGCCACAATTTGCGGGCAACTAAGCCACCATATGAGTGCC  
CTGTGGAGACTTGCCGCAAGGTTTACAAGAGTTACAGTGGTATCGAGTACCACCTGTACCACTATGACCA  
CGACAGCCACCACCCACAGCAGACCCCACTGCGCAAGCACAAAAAGAAAGGGCGCCAGTCACGACCA  
GCCAACAAGCAGTCACCCAGCCCTCTGAAGTCTCACAGTCACAGGCCGAGAGGTGATGAGCTATGCTC  
AGGCCAGCGCATGGTAGAAGTGGACCTTCATGGCCGTGCCACCGAATCAGCATCTTTGACAACCTGGA  
TGTGGTGTGAGAGGATGAGGAGGCCCTGAGGAGGCCCTGAGAAATGGCAGCAACAAGGAAAACACTGAG  
ACACCTGCGGCTACACCTAAGTCAGGCAAGCATAAGAACAAGGAGAAAACGAAAAGACTCTAACACCACC  
ATCACAGCGCTCCTGCCAGTGCTGCTCCAAAATTGCTGAGGTGGTGTATCGTGAGCTAGAGCAAGATAC  
CCCTGACGCACCACCCGGCCCACTTCTACTACCGGTACATCGAGAAATCTGCAGAGGAGCTGGATGAG  
GAGGTGGAGTATGACATGGATGAAGAGGACTATATCTGGCTGGATATCATGAATGAGCGCGGAAGACTG  
AGGGTGAAGTCCCATCCACAAGAGATCTTTGAGTACTTAATGGACCGTTTGGAGAAGGAGTCTGACTT  
TGAGAGTCACAATAAAGGTGACCCCAATGCACTAGTGGATGAAGATGCCGTGTGCTGTATCTGCAATGAT  
GGCGAGTGCCAGAACAGCAATGTTATCCTCTTCTGTGACATGTGTAACCTGGCTGTGACCCAGGAGTGCT  
ACGGTGTCCCCTATATCCCTGAAGGCCAGTGGCTGTGCCCGCTTGCCTGCAGTCACCTTCTCGTGCAAT  
GGATTGTGCTCTGTGCCCAATAAAGGGTGGTGCCTTCAAGCAGACAGATGATGGCCGCTGGGCCACCGTG  
GTGTGTGCCTTGTGGATCCCTGAGGTTTCTTTGCCAACACAGTCTTCTAGAACCTATTGACAGCATTG  
AGCACATCCACCAGCTCGTGGAAGCTCACCTGCTACATTTGTAACAGCGGGGCTCTGGAGCCTGCAT  
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ACATCCACACACCCCAAGTTCTGCTCGTCGCTGCCCTGCCCTATCCACAGTGAGGGTGAAGGAAGA  
GGATGAAGAAGAAGATGAGGGTAAAAGCTGGAGCTCAGAGAAGGTCAAGAAGGCCAAGGCCAAGTCTCGG



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ATTAAGATGAAGAAAGCTCGGAAGATCTTGGCAGAGAAGAGGGCAGCAGCACCTGTGGTGTCCGTGCCCT  
GCATCCCGCCACACAGGCTCAGTAAGATCACCAACCGCCTGACCATCCAGAGGAAGAGCCAGTTCATGCA  
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GGGAACCAGCCAGTGAAGAAGAGTTTCTTGGTGTACCGTAATGACTGCAACCTTCCCCGAAGCAGCTCAG  
ACTCTGAGTCCAGCAGCAGCAGCAGCAGCAGTGCAGCCTCAGACCGGACCAGCACAACCTCCCTCAAAACA  
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CCGAGGCTATCCATCATACCCAGCTCTGATCATTGATCCAAAGATGCCCCGAGAAGGTATGTTCCACCAT  
GGGGTTCCATCCCTGTACCACCACTGGAGTTCTAAAACCTGGGGAACAAATGACACAGGAAGCCCGAG  
AGCATCTACCTCGTTCTTTCTTTGACAACAAACGAACCTGGCAGTGGCTGCCCGGACTAAGCTTGT  
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TCAGTGCAGATTGCTTACCACAGGGCTCTGCAGCACCGAAGCAAGGTGCAGGGTGCAGAGCAGCGGAGA  
CCAGCGATAGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231693 representing NM\_001282128  
 Red=Cloning site Green=Tags(s)

MGVDFDVKTFCHNLRA TKPPYECPVETCRKVYKSYSGIEYHLHYHDHDSPPPPQQTPLRKHKKKGRQSRP  
 ANKQSPSPSEVSQSPGREVMYSYAQAQRMVEVDLHGRVHRISIFDNL DVVSEDEE APEEAPENGSNKENTE  
 TPAATPKSGKHKNKEKRKDSNHHSAPASAAPKLPEVVYRELEQDTPDAPRPTSYYRYIEKSAEELDE  
 EVEYDMDEEDIWLDIMNERRKTEGVSPIPQEIFEYLMDRLEKESYFESHNKGDPNALVDEDAVCCICND  
 GECQNSNVILFCDCMNLAVHQECYGVPIPEGQWL CRRCLQSPSRAVDCALCPNKGAFKQTD DGRWAHV  
 VCALWIPEVCFANTVFLEPIDSIEHI PPARWKLTCYICKQRGSGACIQCHKANCYTA FHVTCACQAGLYM  
 KMPEVRETGANGTSFSVRKTAYCDIHTPPGSARRLPALSHSEGE EEEEEDEEGKSWSEKVKAKAKSR  
 IKMKKARKILA EKRAAAPVSVPCIPPHRLSKITNRLTIQRKSQFMQRLHSYWTLKRQSRNGVPLLRRLQ  
 THLQSQRNCEQVGRSD DKNWALKEQLKSWQRLRHDLERARLLVELIRKREKLKRETIKIQQIAMEMQLT  
 PFLILLRKTLEQLQEKDTGNIFSEVPV LSEVTELDVDPDYL DHIKKPMDFFTMKQNL EAYRYLNFDDFEE  
 DFNLIVSNCLKYNADTIFYRAAVRLREQGAVLRQARRQAEKMGIDFETGMHIPHNLAGDEVSHHTEDV  
 EEERLV LLENQKHLPV EEQLKLLERLDEVNASKQSVGRSRRAKMIKKEMTALRRKLAHQRETGRDGER  
 HGPSGRGNLTPHPAACDKDGTDSAAEESSQETS KGLGPNMSSTPAHEVGRRTSVLFSKKNPKTAGPPK  
 RPRGPPKNRESQMP SHGGSPVGPQP LIMGSLRQRKGRSPRPSSSDSDSDKSTEDPPMDLPANGFSS  
 GNQPVKKSFLVYRND CNLPRSSDSESSSSSSSAASDRSTTPSKQGRGKPSFSRGTFPEDSSED TSGT  
 ENEAYSVGTGRGVGHSMVRKSLGRGAGW LSEDESDPLDALDLVWAKCRGYPSYPALIIDPKMPREGMFHH  
 GVP I PVPPLV LKLG EQMTQEA REHLV L V L F FDNKRTWQWL PRTKL VPLGVNQDL DKEKMLEGRKSNIRK  
 SVQIAYHRALQHR SKVQGEQSSETSDSD

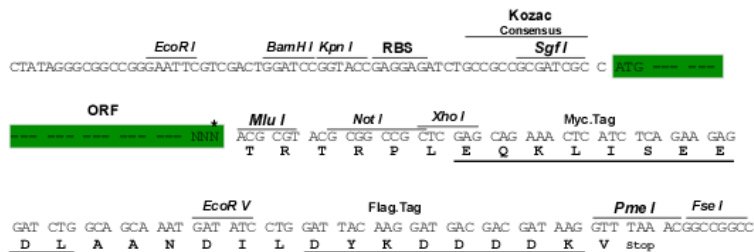
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



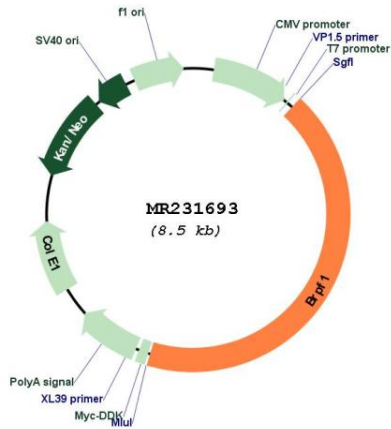
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001282128

**ORF Size:** 3654 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_001282128.1</a> , <a href="#">NP_001269057.1</a>
<b>RefSeq Size:</b>	4796 bp
<b>RefSeq ORF:</b>	3657 bp
<b>Locus ID:</b>	78783
<b>Cytogenetics:</b>	6 E3
<b>MW:</b>	138.4 kDa
<b>Gene Summary:</b>	Component of the MOZ/MORF complex which has a histone H3 acetyltransferase activity. Preferentially mediates histone H3-K23 acetylation (PubMed:27939640). Positively regulates the transcription of RUNX1 and RUNX2 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231693