

## Product datasheet for **MR226936**

### **Bmi1 (NM\_007552) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bmi1 (NM\_007552) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Bmi1  
**Synonyms:** AW546694; Bmi-1; Pcgf4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR226936 representing NM\_007552  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCATCGAACACCAGAATCAAGATCACTGAGCTAAATCCCCACTTAATGTGTGTCTGTGTGGAGGGT  
ACTTCATTGATGCCACTACCATAATAGAATGTCTACATTCCTTCTGTAAAACATGTATTGTACGTTACTT  
GGAGACCAGCAAGTATTGCCTATTTGTGATGTCCAGGTTACAAAACCAGACCACTCCTGAACATAAGG  
TCAGATAAAACTCTTCAAGATATTGTATACAAATTAGTCCCAGGGCTTTTCAAAAATGAGATGAAGAGAA  
GAAGAGATTTTTATGCAGCTCACCCGTGAGCTGATGCTGCCAATGGCTCCAATGAAGACCGAGGAGAAGT  
TGCAGATGAGGAGAAGAGGATTAACTGATGATGAGATAATAAGCTTGTCTATTGAGTTCTTTGATCAG  
AGCAGATTGGATCGGAAAAGTAAATAAAGAGAAGCCTAAGGAAGAGGTGAATGATAAAAGGTACTTACGAT  
GCCCAGCAGCAATGACTGTGATGCACTTGAGAAAGTTTCTCAGGAGTAAAATGGACATACCCAATACTTT  
CCAGATTGACGTCATGTATGAAGAGGAACCTTTAAAGGATTACTACACGCTAATGGACATTGCCTACATT  
TATACCTGGAGAAGAAATGGCCCACTACCTTTGAAATACAGAGTTCGGCCAATTGCAAAAGAATGAAGA  
TGAGTCACCAGAGGGATGGACTGACGAATGCTGGAGAGCTGGAAGTGACTCTGGGAGTGACAAGGCCAA  
CAGCCCAGCCGGAGGTGTTCCCTCCACCTCTTCTGTTTGCCAGTCCCAGCACTCCAGTGCACTCTCCT  
CACCCACAGTTCCTCACATTTCCAGTACCATGAATGGAACAGCAACAGCCCCAGTGCTAACCCAAT  
CTTCCTTGGCAGTAGACCTCGAAAATCATCACTAAATGGGTATCAGCAACTTCATCTGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR226936 representing NM\_007552  
Red=Cloning site Green=Tags(s)

MHRTRRIKITELNPHLMCVLCGGYFIDATTIIECLHSFCKTCIVRYLETISKYCPICDVQVHKTRPLLNIR  
 SDKTLQDIVYKLVPLFKNEMKRRRDFYAAHPSADAANGSNEDRGEVADEEKRIITDDEIISLSIEFFDQ  
 SRLDRKVNKEKPKKEEVNDKRYLRCPAAMVMHLRKFRLRSKMDIPNTFQIDVMYEEELKDYITLMDIAYI  
 YTWRRNGPLPLKYRVRPTCKRMKMSHQRDGLTNAGELESDSGSDKANSPAGGVPSTSSCLPSPSTPVQSP  
 HPQFPHISSTMNGTNSPNSANHQSSFASRPRKSSSLNGSSATSSG

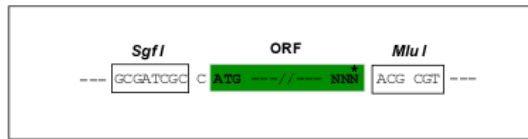
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1813\\_a09.zip](https://cdn.origene.com/chromatograms/ja1813_a09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_007552

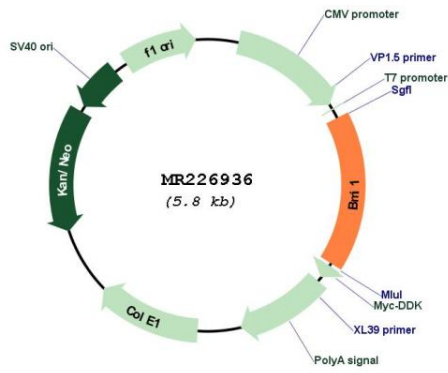
**ORF Size:** 972 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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_007552.4</a> , <a href="#">NP_031578.2</a>
<b>RefSeq Size:</b>	3594 bp
<b>RefSeq ORF:</b>	975 bp
<b>Locus ID:</b>	12151
<b>UniProt ID:</b>	<a href="#">P25916</a>
<b>Cytogenetics:</b>	2 12.9 cM
<b>MW:</b>	37.2 kDa
<b>Gene Summary:</b>	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. The complex composed of RNF2, UB2D3 and BMI1 binds nucleosomes, and has activity only with nucleosomal histone H2A. In the PRC1-like complex, regulates the E3 ubiquitin-protein ligase activity of RNF2/RING2 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226936