

Product datasheet for **MG226936**

Bmi1 (NM_007552) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bmi1 (NM_007552) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Bmi1
Synonyms: AW546694; Bmi-1; Pcgf4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226936 representing NM_007552
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCATCGAACAACCAGAATCAAGATCACTGAGCTAAATCCCCACTTAATGTGTGTCTGTGTGGAGGGT
 ACTTCATTGATGCCACTACCATAATAGAATGTCTACATTCCTTCTGTAAAACATGTATTGTACGTTACTT
 GGAGACCAGCAAGTATTGTCTATTTGTGATGTCCAGGTTACAAAACCAGACCACTCCTGAACATAAGG
 TCAGATAAAACTCTTCAAGATATTGTATACAAATTAGTCCCAGGGCTTTTCAAAAATGAGATGAAGAGAA
 GAAGAGATTTTTATGCAGCTCACCGTCAGCTGATGCTGCCAATGGCTCCAATGAAGACCGAGGAGAAGT
 TGCAGATGAGGAGAAGAGGATTAACTGATGATGAGATAATAAGCTTGTCTATTGAGTTCTTTGATCAG
 AGCAGATTGGATCGGAAAGTAAATAAAGAGAAGCCTAAGGAAGAGGTGAATGATAAAAGGTACTTACGAT
 GCCCAGCAGCAATGACTGTGATGCACTTGAGAAAGTTTCTCAGGAGTAAAATGGACATACCCAATACTTT
 CCAGATTGACGTCATGTATGAAGAGGAACCTTTAAAGGATTACTACACGCTAATGGACATTGCCTACATT
 TATACCTGGAGAAGAAATGGCCCACTACCTTTGAAATACAGAGTTCGGCCAACCTTGCAAAGAATGAAGA
 TGAGTCACCAGAGGGATGGACTGACGAATGCTGGAGAGCTGGAAGTGACTCTGGGAGTGACAAGGCCAA
 CAGCCCAGCCGGAGGTGTTCCCTCCACCTCTTCTGTTGCCCAGTCCCAGCACTCCAGTGCAGTCTCCT
 CACCCACAGTTCCTCACATTTCCAGTACCATGAATGGAACAGCAACAGCCCCAGTGTCAACCACCAAT
 CTTCTTTGCCAGTAGACCTCGAAAATCATCACTAAATGGGTATCAGCAACTTCATCTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226936 representing NM_007552
 Red=Cloning site Green=Tags(s)

MHRTRRIKITELNPHLMCVLCGGYFIDATTIIECLHSFCKTCIVRYLETISKYCPICDVQVHKTRPLLNIR
 SDKTLQDIVYKLVPLFKNEMKRRRDFYAAHPSADAANGSNEDRGEVADEEKRIITDDEIISLSIEFFDQ
 SRLDRKVNKEKPKKEEVNDKRYLRCPAAMTVMHLRKFRLRSKMDIPNTFQIDVMYEEELPKDYITLMDIAYI
 YTWRRNGPLPLKYRVRPTCKRMKMSHQRDGLTNAGELESDSGSDKANSPAGGVPSTSSCLPSPSTPVQSP
 HPQFPHISSTMNGTNSNPSANHQSSFASRPRKSSSLNGSSATSSG

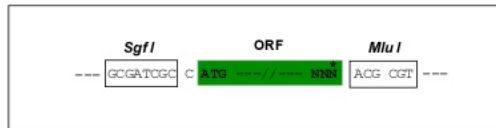
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1409_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_007552

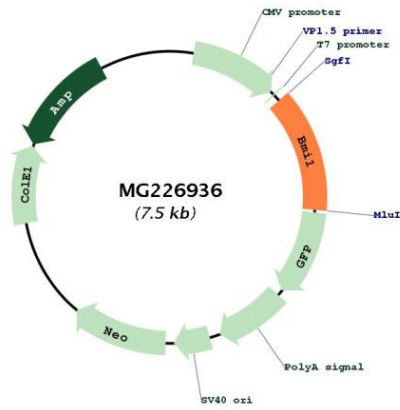
ORF Size: 972 bp

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 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](#)

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.
RefSeq:	NM_007552.4 , NP_031578.2
RefSeq Size:	3594 bp
RefSeq ORF:	975 bp
Locus ID:	12151
UniProt ID:	P25916
Cytogenetics:	2 12.9 cM
Gene Summary:	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 MG226936