

Product datasheet for MR226936L4

Bmi1 (NM_007552) Mouse Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids				
Product Name:	Bmi1 (NM_007552) Mouse Tagged Lenti ORF Clone				
Tag:	mGFP				
Symbol:	Bmi1				
Synonyms:	AW546694; Bmi-1; Pcgf4				
Mammalian Cell Selection:	Puromycin				
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)				
E. coli Selection:	Chloramphenicol (34 ug/mL)				
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226936).				
Restriction Sites:	Sgfl-Mlul				
Cloning Scheme:					
	Cloning sites used for ORF Shuttling:				
	Safi ORF Miuj				
	Sgf I ORF Mlu I GCG ATC GC ATG // NNN ACG CGT				

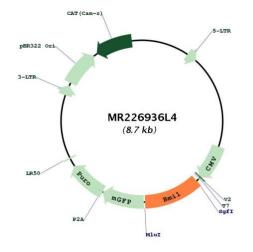
					Koz Conse	ak nsus			
EcoR I	Bam	ні	RBS		5	gf I		OR	F
CTATAGGGCGGCCGGGAATTCGTC	GACTGGA	rccggtac	GAGGAGA	TCTGC	coccoco	ATCGC	ATG	 	-
	Mlu I		Noti <u>X</u>	ho I	m	IGFP Ta	g		
NNŇ	ACG CGT	ACG CGG		GAG	ATG AGC M S		GC G -	 	
				-		-	-		_
GGA CTC AGA GTT TGG G L R V	i GTA GGA	AGC							

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



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Plasmid Map:



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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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).

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GRIGENE Bmi1 (NM_007552) Mouse Tagged Lenti ORF Clone – MR226936L4

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 007552.4, NP 031578.2</u>
RefSeq Size:	3594 bp
RefSeq ORF:	975 bp
Locus ID:	12151
UniProt ID:	<u>P25916</u>
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]