

## Product datasheet for **RG202871**

### BMI1 (NM\_005180) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BMI1 (NM_005180) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BMI1
Synonyms:	flvi-2/bmi-1; FLVI2/BMI1; PCGF4; RNF51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202871 representing NM_005180 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCATCGAACACGAGAATCAAGATCACTGAGCTAAATCCCCACCTGATGTGTGTGCTTTGTGGAGGGT  
ACTTCATTGATGCCACAACCATAATAGAATGTCTACATTCCTTCTGTAAAACGTGTATTGTTGTTACCT  
GGAGACCAGCAAGTATTGCCTATTTGTGATGTCCAAGTTCACAAGACCAGACCACTACTGAATATAAGG  
TCAGATAAACTCTCCAAGATATTGTATACAAATTAGTCCAGGGCTTTTCAAAAATGAAATGAAGAGAA  
GAAGGGATTTTTATGCAGCTCATCCTTCTGCTGATGCTGCCAATGGCTCTAATGAAGATAGAGGAGAGGT  
TGCAGATGAAGATAAGAGAATTAACTGATGATGAGATAATAAGCTTATCCATTGAATCTTTGACCAG  
AACAGATTGGATCGGAAAGTAAACAAAGACAAAGAGAAATCTAAGGAGGAGGTGAATGATAAAAGATACT  
TACGATGCCAGCAGCAATGACTGTGATGCACTTAAGAAAGTTTCTCAGAAGTAAATGGACATACCTAA  
TACTTTCCAGATTGATGTATGATGAGGAGGAACCTTTAAAGGATTATTATACACTAATGGATATTGCC  
TACATTTATACCTGGAGAAGGAATGGTCCACTTCCATTGAAATACAGAGTTCGACCTACTGTAAAAAGAA  
TGAAGATCAGTCACCAGAGAGATGGACTGACAAATGCTGGAGAACTGGAAAGTACTCTGGGAGTGACAA  
GGCCAACAGCCCAGCAGGAGGTATCCCTCCACCTCTTCTGTTGCCTAGCCCCAGTACTCCAGTGCAG  
TCTCCTCATCCACAGTTTCCCTCACATTTCCAGTACTATGAATGGAACCAGCAACAGCCCCAGCGGTAAAC  
ACCAATCTTCTTTGCCAATAGACCTCGAAAATCATCAGTAAATGGGTATCAGCAACTTCTTCTGGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202871 representing NM\_005180  
 Red=Cloning site Green=Tags(s)

MHRTRRIKITELNPHLMCVLCGGYFIDATTIIECLHSFCKTCIVRYLETISKYCPICDVQVHKTRPLLNIR  
 SDKTLQDIVYKLVPLGFKNEMKRRRDFYAAHPSADAANGSNEDRGEVADEDKRIITDDEIISLSIEFFDQ  
 NRLDRKVNKDKESKEEVNDKRYLRCPAAMTVMHLRKFRLRSKMDIPNTFQIDVMYEEELPKDYITLMDIA  
 YIYTWRNGPLPLKYRVRPTCKRMKISHQRDGLTNAGELESDSGSDKANSFAGGIPSTSSCLPSPSTPVQ  
 SPHPQFPHISSSTMNGTSNSPSGNHQSSFANRPRKSSVNGSSATSSG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005180

**ORF Size:** 978 bp

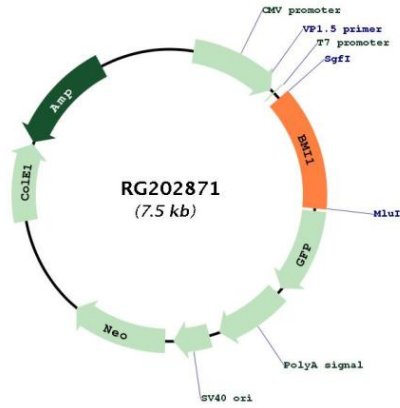
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](#)

**OTI Annotation:** 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>	<u><a href="#">NM_005180.9</a></u>
<b>RefSeq Size:</b>	3251 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	648
<b>UniProt ID:</b>	<u><a href="#">P35226</a></u>
<b>Cytogenetics:</b>	10p12.2
<b>Domains:</b>	RING
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<b>Gene Summary:</b>	This gene encodes a ring finger protein that is major component of the polycomb group complex 1 (PRC1). This complex functions through chromatin remodeling as an essential epigenetic repressor of multiple regulatory genes involved in embryonic development and self-renewal in somatic stem cells. This protein also plays a central role in DNA damage repair. This gene is an oncogene and aberrant expression is associated with numerous cancers and is associated with resistance to certain chemotherapies. A pseudogene of this gene is found on chromosome X. Read-through transcription also exists between this gene and the upstream COMM domain containing 3 (COMMD3) gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RG202871