

Product datasheet for **RC202871**

BMI1 (NM_005180) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMI1 (NM_005180) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BMI1
Synonyms:	flvi-2/bmi-1; FLVI2/BMI1; PCGF4; RNF51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202871 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCGAACACGAGAATCAAGATCACTGAGCTAAATCCCCACCTGATGTGTGTGCTTTGTGGAGGGT
ACTTCATTGATGCCACAACCATAATAGAATGTCTACATTCCTTCTGTAAAACGTGTATTGTTTCGTTACCT
GGAGACCAGCAAGTATTGCCTATTTGTGATGTCCAAGTTCACAAGACCAGACCACTACTGAATATAAGG
TCAGATAAAACTCTCCAAGATATTGTATACAAATTAGTCCAGGGCTTTTCAAAAATGAAATGAAGAGAA
GAAGGGATTTTTATGCAGCTCATCCTTCTGCTGATGCTGCCAATGGCTCTAATGAAGATAGAGGAGAGGT
TGCAGATGAAGATAAGAGAATTAACTGATGATGAGATAATAAGCTTATCCATTGAATCTTTGACCAG
AACAGATTGGATCGGAAAAGTAAACAAAGACAAAGAGAAAATCTAAGGAGGAGGTGAATGATAAAAGATACT
TACGATGCCAGCAGCAATGACTGTGATGCACTTAAGAAAGTTTCTCAGAAGTAAAATGGACATACCTAA
TACTTTCCAGATTGATGTATGATGAGGAGGAACCTTTAAAGGATTATTATACACTAATGGATATTGCC
TACATTTATACCTGGAGAAGGAATGGTCCACTTCCATTGAAATACAGAGTTCGACCTACTTGTAAAAGAA
TGAAGATCAGTCACCAGAGAGATGGACTGACAAATGCTGGAGAACTGGAAAGTACTCTGGGAGTGACAA
GGCCAACAGCCCAGCAGGAGGTATCCCTCCACCTCTTCTGTTGCCTAGCCCCAGTACTCCAGTGCAG
TCTCCTCATCCACAGTTTCTCACATTTCCAGTACTATGAATGGAACCAGCAACAGCCCCAGCGGTAAAC
ACCAATCTTCTTTGCCAATAGACCTCGAAAATCATCAGTAAATGGGTATCAGCAACTTCTTCTGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202871 protein sequence
Red=Cloning site Green=Tags(s)

MHRTRRIKITELNPHLMCVLCGGYFIDATTIIECLHSFCKTCIVRYLETISKYCPICDVQVHKTRPLLNIR
 SDKTLQDIVYKLVPLFKNEMKRRRDFYAAHPSADAANGSNEDRGEVADEKRIITDDEIISLSIEFFDQ
 NRLDRKVNKDKEKSKEEVNDKRYLRCPAAMTVMHLRKFRLRSKMDIPNTFQIDVMYEEELKDYITLMDIA
 YIYTWRNGPLPLKYRVRPTCKRMKISHQRDGLTNAGELESDSGSDKANSFAGGIPSTSSCLPSPSTPVQ
 SPHPQFPHISSTMNGTNSNSPSGNHQSSFANRPRKSSVNGSSATSSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6054_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005180

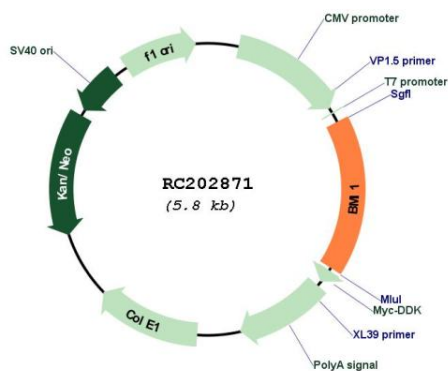
ORF Size: 978 bp

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 or by calling 301.340.3188 option 3 for pricing and delivery.

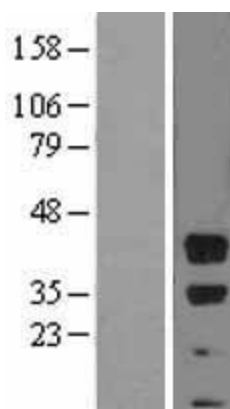
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_005180.9
RefSeq Size:	3435 bp
RefSeq ORF:	981 bp
Locus ID:	648
UniProt ID:	P35226
Cytogenetics:	10p12.2
Domains:	RING
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
MW:	36.9 kDa
Gene Summary:	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 (COMM3) gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RC202871



Western blot validation of overexpression lysate (Cat# [LY401584]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202871 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).