

Product datasheet for **RC202871**

BMI1 (NM_005180) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Tag: Myc-DDK
 Symbol: BMI1
 Synonyms: flvi-2/bmi-1; FLV12/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
 ACTTCATTGATGCCACAACCATAATAGAATGTCTACATTCCTTCTGTAAAACGTGATTGTTTCGTTACCT
 GGAGACCAGCAAGTATTGCCTATTTGTGATGTCCAAGTTCACAAGACCAGACCACTACTGAATATAAGG
 TCAGATAAAACTCTCCAAGATATTGTATACAAATTAGTTCAGGGCTTTTCAAAAATGAAATGAAGAGAA
 GAAGGGATTTTTATGCAGCTCATCCTTCTGCTGATGCTGCCAATGGCTTAATGAAGATAGAGGAGAGGT
 TGCAGATGAAGATAAGAGAATTATAACTGATGATGAGATAATAAGCTTATCCATTGAATCTTTGACCAG
 AACAGATTGGATCGGAAAAGTAAACAAAGACAAAGAGAAATCTAAGGAGGAGGTGAATGATAAAAGATACT
 TACGATGCCAGCAGCAATGACTGTGATGCACTTAAGAAAGTTTCTCAGAAGTAAATGGACATACCTAA
 TACTTTCCAGATTGATGTCATGTATGAGGAGGAACCTTTAAAGGATTATTATACACTAATGGATATTGCC
 TACATTTATACCTGGAGAAGGAATGGTCCACTTCCATTGAAATACAGAGTTCGACCTACTGTAAAAGAA
 TGAAGATCAGTCACCAGAGAGATGGACTGACAAATGCTGGAGAACTGGAAAGTACTCTGGGAGTGACAA
 GGCCAACAGCCCAGCAGGAGGTATCCCTCCACCTCTTCTGTTGCCTAGCCCCAGTACTCCAGTGCAG
 TCTCCTCATCCAGTTTCTCACATTTCCAGTACTATGAATGGAACCAGCAACAGCCCCAGCGGTAACC
 ACCAATCTTCTTTGCCAATAGACCTCGAAAATCATCAGTAAATGGGTCATCAGCAACTTCTTCTGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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

MHRTRTRIKITELNPHLMCVLCGGYFIDATTIIECLHSFCKTCIVRYLETISKYCPICDVQVHKTRPLLNIR
 SDKTLQDIVYKLVPLFKNEMKRRRDFYAAHPSADAANGSNEDRGEVADEDKRIITDDEIISLSIEFFDQ
 NRLDRKVNKDKKESKEEVNDKRYLRCPAAMTVMHLRKFRLRSKMDIPNTFQIDVMYEEELKDYITLMDIA
 YIYTWRNRNGPLPLKYRVRPTCKRMKISHQRDGLTNAGELESDSGSDKANSFAGGIPSTSSCLPSPSTPVQ
 SPHPQFPHISSTMNGTSNSPSGNHQSSFANRPRKSSVNGSSATSSG

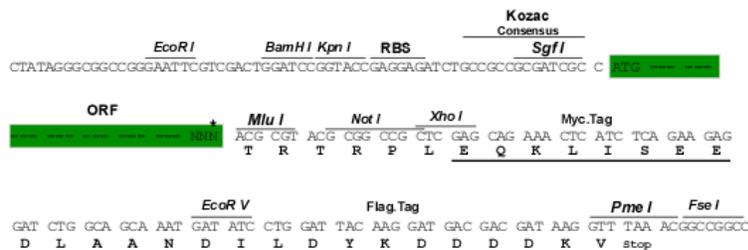
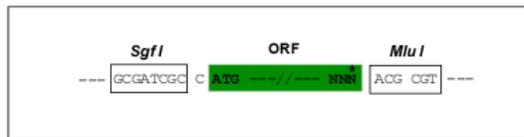
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005180

ORF Size: 978 bp

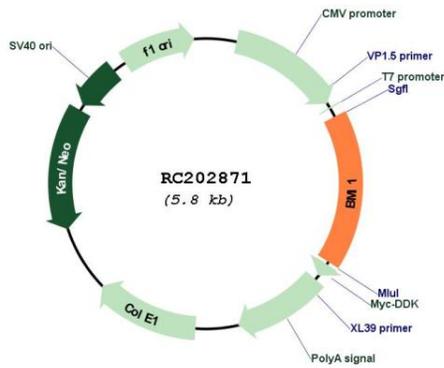
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

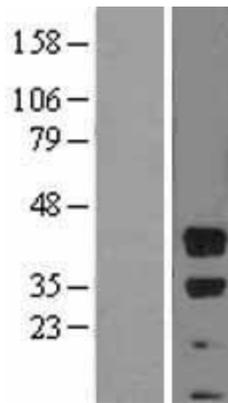
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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 (COMMD3) 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]).