

## Product datasheet for **RC234815**

### **EZH2 (NM\_001203247) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EZH2 (NM_001203247) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EZH2
Synonyms:	ENX-1; ENX1; EZH2b; KMT6; KMT6A; WVS; WVS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC234815 representing NM\_001203247  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGCCAGACTGGGAAGAAATCTGAGAAGGGACCAGTTTGTGGCGGAAGCGTGTAAAATCAGAGTACA  
TGGACTGAGACAGCTCAAGAGGTTTCAGACGAGCTGATGAAGTAAAGAGTATGTTTAGTTCCAATCGTCA  
GAAAATTTTGGAAAGAACGGAAATCTTAAACCAAGAATGGAAACAGCGAAGGATACAGCCTGTGCACATC  
CTGACTTCTGTGAGCTCATTGCGCGGGACTAGGGAGTGTTCGGTGACCAGTGACTTGGATTTTCCAACAC  
AAGTCATCCCATTAAGACTCTGAATGCAGTTGCTTCAGTACCCATAATGTATTCTTGGTCTCCCCTACA  
GCAGAATTTTATGGTGAAGATGAAACTGTTTTACATAACATTCCCTATATGGGAGATGAAGTTTLAGAT  
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TGATGATGGAGACGATCCTGAAGAAAGAGAAGAAAAGCAGAAAGATCTGGAGGATCACCGAGATGATAAA  
GAAAGCCGCCACCTCGGAAATTTCTTCTGATAAAAATTTTGAAGCCATTTCTCAATGTTCCAGATA  
AGGGCACAGCAGAAGAACTAAAGGAAAAATATAAAGAAGTACCCGAACAGCAGCTCCCAGGCCACTTCC  
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ACACTTATAAGCGGAAGAACACAGAAACAGCTCTAGACAACAAACCTTGTGGACCACAGTGTACCAGCA  
TTTGGAGGGAGCAAAGGAGTTTGTCTGCTCTCACCGCTGAGCGGATAAAGACCCCAACAAACGTTCA  
GGAGCCCGCAGAAGAGGACGGCTTCCCAATAACAGTAGCAGGCCAGCACCCCAACATTAATGTGCTGG  
AATCAAAGGATACAGACAGTATAGGGAAGCAGGGACTGAAACGGGGGGAGAGAACAATGATAAAGAAGA  
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CGCTGCAAAGCACAGTGAACACCAAGCAGTGCCCGTGTACCTGGCTGTCCGAGAGTGTGACCCTGACC  
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CCTGTGCAGAAAATGAATTCATCTCAGAATACTGTGGAGAGATTATTTCTCAAGATGAAGCTGACAGAA  
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AACCCGCAAGGTAACAAAATTCGTTTTGCAAATCATTGGTAAATCAAACCTGCTATGCAAAAAGTTATG  
ATGGTTAACGGTATCACAGGATAGGATTTTTTGCCAAGAGAGCCATCCAGACTGGCGAAGAGCTGTTTT  
TTGATTACAGATACAGCCAGGCTGATGCCCTGAAGTATGTGGCATCGAAAGAGAATGGAATCCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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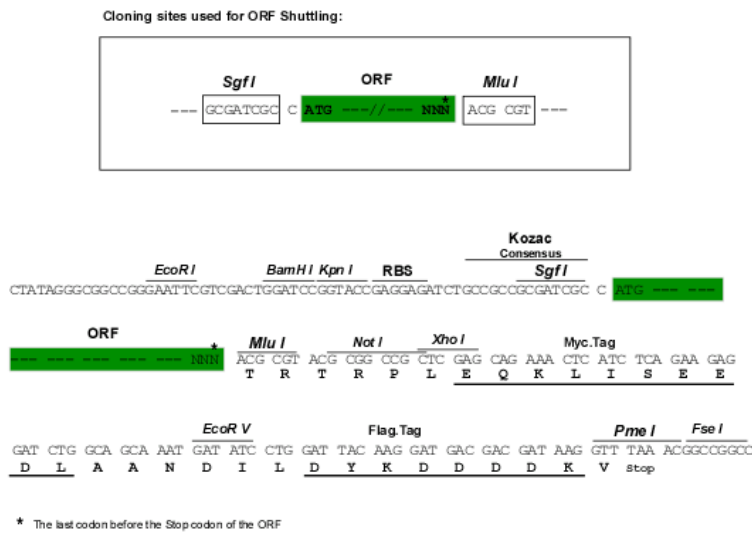
Protein Sequence: >RC234815 representing NM\_001203247  
Red=Cloning site Green=Tags(s)

MGQTGKKSEKGPVCWRKRKVKSEYMLRQLKRFRRADEVKSMFSSNRQKILERTEILNQEWKQRRIQPVHI  
LTSVSSLRGTRECSVTSDLDFPTQVIPLKTLNAVASVPIIMYSWSPLQQNFMEDETVLHNIPYMGDEVL  
QDGTFFIEELIKNYDGKVGHDRECGFINDEIFVELVNALGQYNDNDDDDDDGDDPEEREKQKDL  
EDHRDDKESRPPKFFPSDKIFEAISSMFPDKGTAELKEKYEKELTEQQLPGALPPECTPNIDGPNAKSVQRE  
QSLHSFHTLFCRRCFKYDCFLHPFHATPNTYKRKNTETALDNKPCGPQCYQHLEGAKEFAAALTAERIKTPPKRP  
GRRRGRPLPNNSSRPSTPTINVLESKDTSDREAGTETGGENNDKEEEEEKDETSSESSEANSRCQTP  
IKMKPNIPEPPEVIEWSGAEASMRVLIIGTYDNFCAIARLIGTKTCRQVYEFVKESSIIAPAPAEDVDTPPR  
KKKRKHRLWAAHCRKIQLKKGSSNHVYNYQPCDHPRQPCDSSPCVIAQNFCFKCQCSSECQNRFPGC  
RCKAQCNKQCPCYLAVRECDPDLCLTCGAADHWDSKNVSKNCISIQRGSKKHLLAPSDVAGWGIFIKD  
PVQKNEFISEYCGEIIISQDEADRRGKVYDKYMCSFLFNLNNDVVDATRKGNKIRFANHSVNPNCYAKVM  
MVNGDHRIGIFAKRAIQTGEELFFDYRYSQADALKYVGIEREMEIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001203247

ORF Size: 2238 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:**

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\\_001203247.2](#)

**RefSeq Size:** 2708 bp

**RefSeq ORF:** 2241 bp

**Locus ID:** 2146

**UniProt ID:** [Q15910](#)

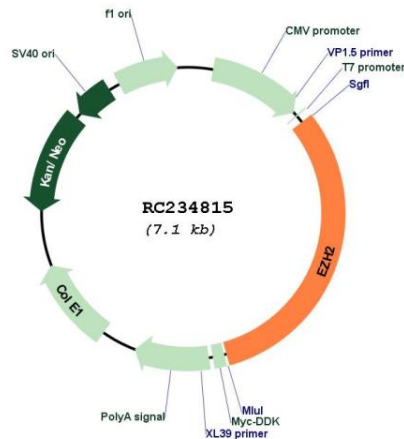
**Cytogenetics:** 7q36.1

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 85.8 kDa

**Gene Summary:** This gene encodes a member of the Polycomb-group (PcG) family. PcG family members form multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. This protein associates with the embryonic ectoderm development protein, the VAV1 oncoprotein, and the X-linked nuclear protein. This protein may play a role in the hematopoietic and central nervous systems. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Feb 2011]

### Product images:



Circular map for RC234815