

Product datasheet for **RG216079**

EZH2 (NM_152998) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EZH2 (NM_152998) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EZH2
Synonyms:	ENX-1; ENX1; EZH2b; KMT6; KMT6A; WVS; WVS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG216079 representing NM_152998
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCAGACTGGGAAGAAATCTGAGAAGGGACCAGTTTGTGGCGGAAGCGTGTAAAATCAGAGTACA
 TGGCGACTGAGACAGCTCAAGAGGTTTCAGACGAGCTGATGAAGTAAAGAGTATGTTTAGTTCCAATCGTCA
 GAAAAATTTGGAAAGAACGGAAATCTTAAACCAAGAATGGAAACAGCGAAGGATACAGCCTGTGCACATC
 CTGACTTCTGTGAGCTCATTGCGCGGGACTAGGGAGGTGGAAGATGAAACTGTTTTACATAACATTCCTT
 ATATGGGAGATGAAGTTTATAGTACAGGATGGTACTTTCATTGAAGAACTAATAAAAAATTATGATGGGAA
 AGTACACGGGGATAGAGAATGTGGGTTTATAAATGATGAAATTTTTGTGGAGTTGGTGAATGCCCTTGGT
 CAATATAATGATGATGACGATGATGATGATGGAGACGATCCTGAAGAAAGAGAAGAAAAGCAGAAAGATC
 TGGAGGATCACCGAGATGATAAAGAAAGCCGCCACCTCGGAAATTTCTTCTGATAAAAATTTTGAAGC
 CATTTCTCAATGTTTCCAGATAAGGGCACAGCAGAAGAACTAAAGGAAAAATATAAAGAACTCACCGAA
 CAGCAGCTCCCAGGCGCACTTCCCTCTGAATGTACCCCAACATAGATGGACCAATGCTAAATCTGTTC
 AGAGAGAGCAAAGCTTACACTCCTTTCATACGCTTTTCTGTAGGCGATGTTTTAAATATGACTGCTTCT
 ACATCCTTTTCATGCAACACCCAACACTTATAAGCGGAAGAACACAGAAACAGCTCTAGACAACAAACCT
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 TAAAGACCCCAACAAACGTCCAGGAGGCCGAGAAGAGGACGGCTTCCCAATAACAGTAGCAGGCCAG
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 GGTGTCAAACACCAATAAAGATGAAGCCAAATTTGAACCTCTGAGAATGTGGAGTGGAGTGGTGTCTGA
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 GCTGGGGGATTTTATCAAAGATCCTGTGCAGAAAAATGAATTCATCTCAGAATACTGTGGAGAGATTAT
 TTCTCAAGATGAAGCTGACAGAAGAGGGAAAGTGTATGATAAATACATGTGCAGCTTTCTGTTCAACTTG
 AACAAATGATTTTGTGGTGGATGCAACCCGCAAGGGTAACAAAATTCGTTTTGCAAATCATTCCGTAATC
 CAAACTGCTATGCAAAAGTTATGATGGTTAACGGTGATCACAGGATAGGTATTTTGGCAAGAGAGCCAT
 CCAGACTGGCGAAGAGCTGTTTTTTGATTACAGATACAGCCAGGCTGATGCCCTGAAGTATGTCCGCATC
 GAAAGAGAAATGGAAATCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216079 representing NM_152998
Red=Cloning site Green=Tags(s)

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MGQTGKKSEKGPVCWRKRKVKSEYMRLRQLKRFRADEVKSMFSSNRQKILERTEILNQEWKQRRIQPVHI
LTSVSSLRGTREVEDET VLNINPYMGDEVL DQDGT FIEELIKNYDGK VHGDRCEGF INDEIFVELVNALG
QYND DDDDDDDGDDPEERE EKQK DLEDHRDDKESRPPRFPSDKIFEAISSMFPDKGTA EELKEKYKELTE
QQLP GALPPECTPNIDGPN AKSVQRE QSLHSFHTLFCRRCFKYDCFLHPFHATPNTYKRKNTETALDNKP
CGPQCYQHLEGAKEFAAALTAERIKTPPKRPGGRRRRGRLPNNSSRPSTPTINVLESKDTDS DREAGTETG
GENNDKEEEEKDE TSSSEANSRCQTP IKMKPNIEPPENVEWSGAEASMF RVLIGTYDNFCAIARLIG
TKTCRQVYEFVRVKESSIIAPAPAEDVDTPPRKKRKHRLWAAHCRKIQLKKGSSNHVYNYQPCDHRPQP
CDSSCPCVIAQNFCEKFCQCSSECQNRFPGCRCKAQCN TKQCPCYLAVRECDPDLCLTCGAADHWDSKNV
SCKNC SIQRGSKHLLLAPSDVAGWGIFIKDPVQKNEFISEYCGEII SQDEADRRGKVYDKYMC SFLFNL
NND FVVDATRKGNKIRF ANHSVNPNCYAKVMMVNGDHRIGIFAKRAIQTGEELFFDYRYSQADALKYVGI
EREMEIP
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152998

ORF Size: 2121 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_152998.3](#)

RefSeq Size: 2563 bp

RefSeq ORF: 2124 bp

Locus ID: 2146

UniProt ID: [Q15910](#)

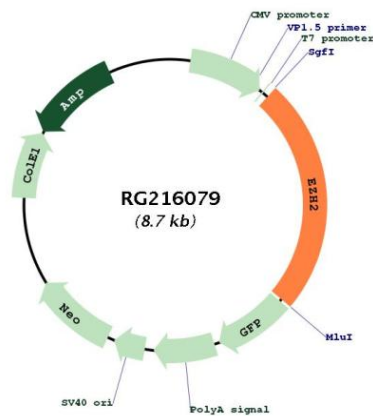
Cytogenetics: 7q36.1

Domains: myb_DNA-binding, SET, DnaJ

Protein Families: Druggable Genome, Transcription Factors

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 RG216079