

## Product datasheet for **RG234798**

### **EZH2 (NM\_001203248) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EZH2 (NM_001203248) 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)



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**ORF Nucleotide  
Sequence:**

>RG234798 representing NM\_001203248  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCCAGACTGGGAAGAAATCTGAGAAGGGACCAGTTTGTGGCGGAAGCGTGTAAAATCAGAGTACA  
 TGGGACTGAGACAGCTCAAGAGTTTCAGACGAGCTGATGAAGTAAAGAGTATGTTTAGTTCCAATCGTCA  
 GAAAAATTTGGAAAGAACGGAAATCTTAAACCAAGAATGGAAACAGCGAAGGATACAGCCTGTGCACATC  
 CTGACTTCTTGTTCGGTGACCAGTGACTTGGATTTTCCAACACAAGTCATCCATTAAAGACTCTGAATG  
 CAGTTGCTTCAGTACCCATAATGTATTCTTGGTCTCCCTACAGCAGAATTTTATGGTGGAAAGTAAAC  
 TGTTTTACATAACATTCCTTATATGGGAGATGAAGTTTTAGATCAGGATGGTACTTTTCATTGAAGAACTA  
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 AGTTGGTGAATGCCCTTGGTCAATATAATGATGATGACGATGATGATGATGGAGACGATCCTGAAGAAAG  
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 TCTGATAAAATTTTTGAAGCCATTTCTCAATGTTCCAGATAAGGGCACAGCAGAAGAACTAAAGGAAA  
 AATATAAAGAAGCTCACCGAACAGCAGCTCCAGGGCAGCTTCTCCTGAATGTACCCCAACATAGATGG  
 ACCAAATGCTAAATCTGTTTCAGAGAGAGCAAAGCTTACACTCCTTTCATACGCTTTTCTGTAGGCGATG  
 TTTAAATAGACTGCTTCTACATCCTTTTCATGCAACACCCAACACTTATAAGCGGAAGAACACAGAAA  
 CAGCTCTAGACAACAACCTTGTGGACCACAGTGTACCAGCATTTGGAGGGAGCAAAGGAGTTTGTCTGC  
 TGCTCTCACCGCTGAGCGGATAAAGACCCCAACAAACGTCAGGAGGCCGAGAAGAGGACGGCTTCCC  
 AATAACAGTAGCAGGCCAGCACCCCAACATTAATGTGCTGGAATCAAAGGATACAGACAGTGAAGGG  
 AAGCAGGGACTGAAACGGGGGGAGAGAACAATGATAAAGAAGAAGAAGAGAAGAAAGTAAACTTCGAG  
 CTCTCTGAAGCAAATTCGCGGTGCAACACCAATAAAGATGAAGCAAATATTGAACCTCCTGAGAAT  
 GTGGAGTGGAGTGGTGTGAAGCCTCAATGTTTAGAGTCTCATTGGCACTTACTATGACAATTTCTGTG  
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 GGCACCATCTGACGTGGCAGGCTGGGGATTTTTATCAAAGATCCTGTGCAGAAAAATGAATTCATCTCA  
 GAATACTGTGGAGAGATTATTTCTCAAGATGAAGCTGACAGAAGAGGGAAAGTGTATGATAAATACATGT  
 GCAGCTTTCTGTTCAACTGAACAATGATTTTGTGGTGGATGCAACCCGCAAGGGTAACAAAATTCGTTT  
 TGCAAATCATTTCGGTAAATCCAACTGCTATGCAAAAGTTATGATGGTTAACGGTGTACACAGGATAGGT  
 ATTTTTGCCAAGAGGCCATCCAGACTGGCGAAGAGCTGTTTTTTGATTACAGATACAGCCAGGCTGATG  
 CCCTGAAGTATGTCGGCATCGAAAGAGAAATGGAATCCCT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG234798 representing NM\_001203248  
Red=Cloning site Green=Tags(s)

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MGQTGKKSEKGPVCWRKRVKSEYMRLRQLKRFRADEVKSMFSSNRQKILERTEILNQEWKQRRIQPVHI
LTSCSVTSDLDFPTQVIPLKTLNAVASVPIMYSWSPLQQNFMVEDETVLHNIPLYMGDEVLDQDGTFFI EEL
IKNYDGKVGHDRECGFINDEIFVELVNALGQYNDDDDDDDDPEEREKQKDL EDHRDDKESRPPRKF
SDKIFEAISSMFPDKGTA EELKEKYKELTEQQLPGALPPECTPNIDGPNKSVQREQLHSFHTLFCRRC
FKYDCFLHPFHATPNTYKRKNTETALDNKPCGPQCYQHLEGAKEFAAALT AERIKTPPKRPGRRRGR
LPNNSSRPSTPTINVLESKDTSDREAGTETGGENNDKEEEEKDETS SSSSEANSRCQTPIKMKPIEPPEN
VEWSGAEASMFVRLIGTYD NFC AIARLIGTKTRQVYEFVYKES SIIAPAPAEDVDTPPRKKRKHRLW
AAHCRKIQLKKGSSNHVYNYQCDHPRQPCDSSCPCVIAQNFCEKFCQCSSECQNRFPGCRCQAQCN
TKQPCPYLAVRECDPDLCLTCGAADHWDSKNVSKNC SIQRGSKHLLLAPSDVAGWGI FIKDPVQKNEFIS
EYCGEII SQDEADRRGKVYDKYMC SFLFNLNDFVVDATRKGNKIRF ANHSVNPNCYAKVMMVNGDHRIG
IFAKRAIQTGEELFFDYRYSQADALKYVGIEREMEIP
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001203248

**ORF Size:** 2211 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\\_001203248.2](#)

**RefSeq Size:** 2681 bp

**RefSeq ORF:** 2214 bp

**Locus ID:** 2146

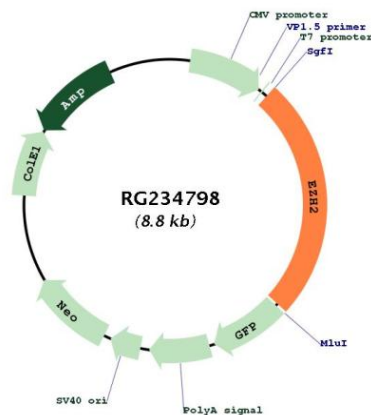
**UniProt ID:** [Q15910](#)

**Cytogenetics:** 7q36.1

**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 RG234798