

## Product datasheet for **SC101257**

### **EZH2 (NM\_152998) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EZH2 (NM_152998) Human Untagged Clone
Tag:	Tag Free
Symbol:	EZH2
Synonyms:	ENX-1; ENX1; EZH2b; KMT6; KMT6A; WVS; WVS2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC101257 sequence for NM\_152998 edited (data generated by NextGen Sequencing)

```

ATGGGCCAGACTGGGAAGAAATCTGAGAAGGGACCAGTTTGTGGCGGAAGCGTGTAAAA
TCAGAGTACATGCGACTGAGACAGCTCAAGAGGTTTCAGACGAGCTGATGAAGTAAAGAGT
ATGTTTAGTTCCAATCGTCAGAAAATTTTGAAAGAACGGAAATCTTAAACCAAGAATGG
AAACAGCGAAGGATACAGCCTGTGCACATCCTGACTTCTGTGAGCTCATTGCGCGGGACT
AGGGAGGTGGAAGATGAAACTGTTTTACATAACATTCCTTATATGGGAGATGAAGTTTTA
GATCAGGATGGTACTTTTCATTGAAGAATAATAAAAAATTATGATGGGAAAGTACACGGG
GATAGAGAATGTGGGTTTATAAATGATGAAATTTTTGTGGAGTTGGTGAATGCCCTTGGT
CAATATAATGATGATGACGATGATGATGATGGAGACGATCCTGAAGAAAGAGAAGAAAAG
CAGAAAGATCTGGAGGATCACCGAGATGATAAAGAAAGCCGCCACCTCGGAAATTTCT
TCTGATAAAAATTTTGAAGCCATTTCTCAATGTTTCCAGATAAGGGCACAGCAGAAGAA
CTAAAGGAAAAATATAAAGAACTACCGAACAGCAGCTCCAGGGCAGCTTCTCCTGAA
TGTACCCCAACATAGATGGACCAATGCTAAATCTGTTTCAGAGAGCAAAAGCTTACAC
TCCTTTCATACGCTTTTCTGTAGCGGATGTTTTAAATATGACTGCTTCTACATCCTTTT
CATGCAACACCCAACACTTATAAGCGGAAGAACACAGAAACAGCTCTAGACAACAACCT
TGTGGACCACAGTGTTACCAGCATTGGAGGGAGCAAAGGAGTTTGTGCTGCTCTCACC
GCTGAGCGGATAAAGACCCCAACAAACGTCAGGAGGGCCGAGAAGAGGACGGCTTCCC
AATAACAGTAGCAGGCCAGCACCCCAACATTAATGTGCTGGAATCAAAGGATACAGAC
AGTGATAGGGAAGCAGGGACTGAAACGGGGGAGAGAACAATGATAAAGAAGAAGAAGAG
AAGAAAGATGAACTTCGAGCTCCTCTGAAGCAAATTCGGTGTCAAACACCAATAAAG
ATTGAAGCCAAATATTGAACCTCTGAGAATGTGGAGTGGAGTGGTGTGAAGCCTCAATG
TTTAGAGTCCCTCATTGGCACTTACTATGACAATTTCTGTGCCATTGCTAGGTTAATTGGG
ACCAAAACATGTAGACAGGTGTATGAGTTTAGAGTCAAAGAATCTAGCATCATAGCTCCA
GCTCCCGCTGAGGATGTGGATACTCCTCCAAGGAAAAAGAGGAAACACCGGTTGTGG
GCTGCACACTGCAGAAAGATACAGCTGAAAAAGGACGGCTCCTCTAACCATGTTTACAAC
TATCAACCCTGTGATCATCCACGGCAGCCTTGTGACAGTTCGTGCCCTTGTGTATAGCA
CAAAATTTTGTGAAAAGTTTGTCAATGTAGTTCAGAGTGTCAAACCGCTTCCGGGA
TGCCGCTGCAAAGCACAGTGCAACCAAGCAGTGCCCGTGTACCTGGCTGTCCGAGAG
TGTGACCCTGACCTCTGTCTTACTTGTGGAGCCGCTGACCATTGGGACAGTAAAAATGTG
TCCTGCAAGAAGTGCAGTATTCAGCGGGCTCCAAAAGCATCTATTGCTGGCACCATCT
GACGTGGCAGGCTGGGGGATTTTATCAAAGATCCTGTGCAGAAAAATGAATTCATCTCA
GAATACTGTGGAGAGATTATTTCTCAAGATGAAGCTGACAGAAGAGGGAAAGTGTATGAT
AAATACATGTGCAGCTTTCTGTTCAACTTGAACAATGATTTTGTGGTGGATGCAACCCGC
AAGGGTAACAAAATTCGTTTTGCAAATCATTCCGTAATCCAACTGCTATGCAAAAGTT
ATGATGGTTAACGGTGATCACAGGATAGGTATTTTGGCAAGAGAGCCATCCAGACTGGC
GAAGAGCTGTTTTTGTATTACAGATACAGCCAGGCTGATGCCCTGAAGTATGTCGGCATC
GAAAGAGAAATGGAATCCCTTGA
    
```

Clone variation with respect to NM\_152998.2

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_152998 unedited  
 CCCCGGGTGCGGATTTATGTATACGATCTCACTATAGGGCGGCCGGAATTCGCACGAGG  
 GTCCGACACCCGGTGGGACTCATAAGGCAGTGGAGCCCCGGCGGGCGGGCGGGCGCG  
 CGGGGGCGACGCGCGGGAACAACGCGAGTCGGCGCGGGGACGAAGAATAATCATGGGCC  
 AGACTGGGAAGAAATCTGAGAAGGGACCAGTTTGTGGCGGAAGCGTGAAAAATCAGAGT  
 ACATGCGACTGAGACAGCTCAAGAGGTTTCAGACGAGCTGATGAAGTAAAGAGTATGTTTA  
 GTTCCAATCGTCAGAAAATTTTGGAAAGAACGGAATCTTAAACCAAGAATGGAAACAGC  
 GAAGGATACAGCCTGTGCACATCCTGACTTCTGTGAGCTATTGCGCGGGACTAGGGAGG  
 TGGAAGATGAAACTGTTTTACATAACATTCTTATATGGGAGATGAAGTTTTAGATCAGG  
 ATGGTACTTTTCATTGAAGAACTAATAAAAAATTATGATGGGAAAGTACACGGGGATAGAG  
 AATGTGGGTTTATAAATGATGAAATTTTTGTGGAGTTGGTGAATGCCCTTGGTCAATATA  
 ATGATGATGACGATGATGATGATGGAGACGATCCTGAAGAAAGAGAAGAAAAGCAGAAAG  
 ATCTGGAGGATCACCGAGATGATAAAGAAAGCCGCCACCTCGGAAATTTCTTCTGATA  
 AAATTTTTGAAGCATTTCCTCAATGGTTCAGATNAGGGCACAGCAGAAGAACTAAAGG  
 GAAAATATAAAGAACTCACCCGACAGCAGCTCCAGGCGCACTTNNCTGATGTACC  
 CCACATAGATGGACCAATGCTAAATCTGTTTCAGAGAGAGCAAAGCTTACACTNCTNTCA  
 TACGCTTTTCTGTAGA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_152998 unedited  
 NGGACTCGGGATGGCACTCCCCGTTCCAGGATAGCACTGAGGCAGGGTCACAGGGCTGCC  
 ACCCGGGTTCTGTTTCAGGAAACAGCTATGACCGCGCCGCAATCTATAGTCGAGTTTTTT  
 TTTTTTTTTTTGACAAGTTCAAGTTTTCTTTATTCAAAGTTGAAAAATGTACCATACTG  
 CATTATTGCAAAAATTCCTGGTACAAAACACTTTGCTTCTGGTGAAGCAATAAAAA  
 GTTGATTTTTAAACTCATTACTATAAATTATTCTTACAGTACTTTGCAAATTCAGAAATTT  
 CAAACTGCATGTTCTTTTTCTAAATTGCCACAGTACTCGAGGTTCTGAAGCTAAGGCA  
 GCTGTTTCAGAGGAGGGGGAAGAGGTAGCAGATGTCAAGGGATTTCCATTTCTCTTTTCG  
 ATGCCGACATACTTCAGGGCATCAGCCTGGCTGTATCTGTAATCAAAAAACAGCTCTTCG  
 CCAGTCTGGATGGCTCTCTTGGCAAAAATACCTATCCTGTGATCACCGTTAACCATCATA  
 ACTTTTGCATAGCAGTTTGGATTTACCGAATGATTTGCAAAACGAATTTTGTACCCTTG  
 CGGGTTGCATCCACCACAAAATCATTGTTCAAGTTGAACAGAAAGCTGCACATGATTTA  
 TCATACACTTTCCCTCTTCTGTGAGCTTCTGAGAAATAATCTCTCCACAGTATTCT  
 GAGATGAATTCATTTTTCTGCACAGGATCTTTGATAAAAAATCCCCAGCCTGCCACGTCA  
 GATGGTGGCCAGCATATATGCTTTTTGGAGCCACGCTGATACTGCAGTTCTTGCAGGAA  
 CATTTTTACTGTCCCAATGGTACAGCGGCTTACAGTAAGACAGAGGTCAGGGTCACACTC  
 TCGGACN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_152998

**Insert Size:**

2600 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_152998.1</a> , <a href="#">NP_694543.1</a>
<b>RefSeq Size:</b>	2563 bp
<b>RefSeq ORF:</b>	2124 bp
<b>Locus ID:</b>	2146
<b>UniProt ID:</b>	<a href="#">Q15910</a>
<b>Cytogenetics:</b>	7q36.1
<b>Domains:</b>	myb_DNA-binding, SET, Dnaj
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon and an in-frame segment in the coding region, as compared to variant 1. The resulting isoform (b) lacks two internal segments, as compared to isoform a.</p>