

Product datasheet for **SC118923**

EZH1 (NM_001991) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EZH1 (NM_001991) Human Untagged Clone
Tag:	Tag Free
Symbol:	EZH1
Synonyms:	KMT6B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001991, the custom clone sequence may differ by one or more nucleotides

```

ATGGAATACCAATCCCCTACCTCCAAATGTATCACTTACTGGAAAAGAAAAGTGAAATCTGAATACA
TGGCACTTCGACAACTTAAACGGCTTCAGGCAAAATATGGGTGCAAAGGCTTTGTATGTGGCAAATTTTGC
AAAGGTTCAAGAAAAACCAGATCCTCAATGAAGAATGGAAGAAGCTTCGTGTCCAACCTGTTTCAGTCA
ATGAAGCCTGTGAGTGGACACCCTTTTCTCAAAAAGTGTACCATAGAGAGCATTTCCTCCGGGATTTGCAA
GCCAACATATGTTAATGAGGTCACTGAACACAGTTGCATTGGTTCCCATCATGATTCTGGTCCCCTCT
CCAACAGAACTTTATGGTAGAAGATGAGACGGTTTTGTGCAATATTCCCTACATGGGAGATGAAGTGAAA
GAAGAAGATGAGACTTTTATTGAGGAGCTGATCAATAACTATGATGGGAAAGTCCATGGTGAAGAAGAGA
TGATCCCTGGATCCGTTCTGATTAGTGATGCTGTTTTTCTGGAGTTGGTCGATGCCCTGAATCAGTACTC
AGATGAGGAGGAGGAAGGGCACAATGACACCTCAGATGGAAAGCAGGATGACAGCAAAGAAGATCTGCCA
GTAACAAGAAAGAGAAAGCGACATGCTATTGAAGGCAACAAAAGAGTTCCAAGAAACAGTTCCCAATG
ACATGATCTTCAGTGCAATTGCCTCAATGTTCCCTGAGAATGGTGTCCCAGATGACATGAAGGAGAGGTA
TCGAGAATAACAGAGATGTCAGACCCCAATGCACTTCCCCTCAGTGCACACCCAAACATCGATGGCCCC
AATGCCAAGTCTGTGCAGCGGGAGCAATCTCTGCACTCCTTCCACACACTTTTTTGGCCGGCCTGCTTTA
AATACGACTGCTTCCCTCACCTTTTTCATGCCACCCTAATGTATATAAACGCAAGAATAAAGAAATCAA
GATTGAACCAGAACCATGTGGCAGACTGCTTCCCTTTGCTGGAAGGAGCAAAGGAGTATGCCATGCTC
CACACCCCGCTCCAAGTGTCTGGTCGTGCGCGGAGAAAGGCACCACATAGTCAGTGTCTCCTGCTCCA
ATGCCTCAGCCTGTCTGTGGCTGAGACTAAAGAAGGAGACAGTGACAGGGACACAGGCAATGACTGGGC
CTCCAGTTCTTCAGAGGCTAACTCTCGCTGTGCACTCCACAAAACAGAAGGCTAGTCCAGCCCCACCT
CAACTCTGCGTAGTGGAAGCACCTCGGAGCCTGTGGAATGGACTGGGGCTGAAGAATCTCTTTTTTCGAG
TCTTCCATGGCACCTACTTCAACAACCTTCTGTTCAATAGCCAGGCTTCTGGGGACCAAGACGTGCAAGCA
GGTCTTTTCAGTTTGCAGTCAAAGAATCACTTATCTCTGAAGCTGCCAACAGATGAGCTCATGAACCCCTCA
CAGAAGAAGAAAAGAACACAGATTGTGGGCTGCACACTGCAGGAAGATTGAGCTGAAGAAAGATAACT
CTTCCACACAAGTGTACAACCTACCAACCCTGCGACCACCAGACCCGCCCCGTGACAGCACCTGCCCTG
CATCATGACTCAGAATTTCTGTGAGAAGTTCTGCCAGTGAACCCAGACTGTCAGAATCGTTTCCCTGGC
TGTCGCTGTAAGACCCAGTGCAATACCAAGCAATGTCCTTGCTATCTGGCAGTGCAGAGATGTGACCCTG
ACCTGTGTCTCACCTGTGGGCCTCAGAGCACTGGGACTGCAAGGTGGTTTCTGTAAAACTGCAGCAT
CCAGCGTGGACTTAAGAAGCACCTGCTGTGCCCCCTCTGATGTGGCCGGATGGGGCACCTTCATAAAG
GAGTCTGTGCAGAAGAACGAATTCATTTCTGAATACTGTGGTGAAGCTCATCTCTCAGGATGAGGCTGATC
GACGCGAAAGGTCTATGACAAATACATGTCCAGCTTCTCTTCAACCTCAATAATGATTTTGTAGTGGA
TGCTACTCGGAAAGGAAACAAAATTCGATTTGCAATCATTGAGTGAATCCCAACTGTTATGCCAAAGTG
GTCATGGTGAATGGAGACCATCGGATGGGATCTTTGCCAAGAGGGCAATTAAGCTGGCGAAGAGCTCT
TCTTTGATTACAGGTACAGCCAAGCTGATGCTCTCAAGTACGTGGGGATCGAGAGGGAGACCGACGCTCT
TTAG
    
```

Restriction Sites: NotI-NotI
ACCN: NM_001991
Insert Size: 4470 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001991.3](#), [NP_001982.2](#)

RefSeq Size: 4654 bp

RefSeq ORF: 2244 bp

Locus ID: 2145

UniProt ID: [Q92800](#)

Cytogenetics: 17q21.2

Domains: myb_DNA-binding, SET

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: EZH1 is a component of a noncanonical Polycomb repressive complex-2 (PRC2) that mediates methylation of histone H3 (see MIM 602812) lys27 (H3K27) and functions in the maintenance of embryonic stem cell pluripotency and plasticity (Shen et al., 2008 [PubMed 19026780]). [supplied by OMIM, Mar 2009]