

Product datasheet for **SC128144**

EZH2 (NM_004456) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EZH2 (NM_004456) Human Untagged Clone
Tag:	Tag Free
Symbol:	EZH2
Synonyms:	ENX-1; ENX1; EZH2b; KMT6; KMT6A; WVS; WVS2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_004456 edited
TCCGGTCGCGTCCGACACCCGGTGGGACTCAGAAGGCAGTGGAGCCCCGGCGCGCGCGGC
GGCGGCGCGCGGGGGCGACGCGCGGGAACAACGCGAGTCGGCGCGCGGGACGAAGAATAA
TCATGGGCCAGACTGGGAAGAAATCTGAGAAGGGACCAGTTTGTGGCGGAAGCGTGTA
AATCAGAGTACATGCGACTGAGACAGCTCAAGAGGTTCCAGACGAGCTGATGAAGTAAAGA
GTATGTTTAGTTCCAATCGTCAGAAAATTTGGAAAGAACGGAATCTTAAACCAAGAAT
GGAAACGCGAAGGATACAGCCTGTGCACATCCTGACTTCTGTGAGCTCATTGCGCGGGA
CTAGGGAGTGTTCCGGTGACCAGTGACTTGGATTTTCCAACACAAGTCATCCCATTAAAGA
CTCTGAATGCAGTTGCTTCAGTACCCATAATGTATTCTTGGTCTCCCCTACAGCAGAATT
TTATGGTGAAGATGAACTGTTTTACATAACATTCTTATATGGGAGATGAAGTTTTAG
ATCAGGATGGTACTTTCATTGAAGAACTAATAAAAAATTATGATGGGAAAGTACACGGGG
ATAGAGAATGTGGGTTTATAAATGATGAAATTTTGTGGAGTTGGTGAATGCCCTTGGTC
AATATAATGATGATGACGATGATGATGATGGAGACGATCCTGAAGAAAGAGAAGAAAAGC
AGAAAGATCTGGAGGATACCGAGATGATAAAGAAAGCCGCCACCTCGGAAATTTCTT
CTGATAAAATTTTGAAGCCATTTCTCAATGTTTCCAGATAAAGGCACAGCAGAAGAAC
TAAAGGAAAAATATAAGAACTACCGAACAGCAGCTCCAGGCCACTTCTCCTGAAT
GTACCCCAACATAGATGGACCAATGCTAAATCTGTTCCAGAGAGAGCAAAGCTTACACT
CCTTTCATACGCTTTTCTGTAGGCGATGTTTTAAATATGACTGCTTCTCATCGTAAGT
GCAATTATTCTTTTCATGCAACACCCAACACTTATAAGCGGAAGAACACAGAAACAGCTC
TAGACAACAACTTTGTGGACCACAGTGTACCAGCATTTGGAGGGAGCAAAGGAGTTTG
CTGCTGCTCTCACCGTGAGCGGATAAAGACCCCAAAAACGTCCAGGAGGCCGAGAA
GAGGACGGCTTCCAATAACAGTAGCAGGCCAGCAGCCCAACCAATTAATGTGCTGGAAT
CAAAGGATACAGACAGTATAGGGAAGCAGGGACTGAAACGGGGGAGAGAACAATGATA
AAGAAGAAGAAGAGAAGAAGATGAAACTTCGAGCTCCTCTGAAGCAAATTTCTCGGTGTC
AAACACCAATAAAGATGAAGCAAAATTTGAACCTCCTGAGAATGTGGAGTGGAGTGGTG
CTGAAGCCTCAATGTTTAGAGTCTCATTGGCACTTACTATGACAATTTCTGTGCCATTG
CTAGGTTAATTTGGGACCAAAACATGTAGACAGGTGTATGAGTTTAGAGTCAAAGAATCTA
GCATCATAGTCCAGCTCCCGCTGAGGATGTGGATACTCCTCAAAGGAAAAAGAAGGA
AACACCGTTGTGGGCTGCACACTGCAGAAAGATACAGCTGAAAAAGGACGGCTCCTCTA
ACCATGTTTACAATATCAACCCTGTGATCATCCACGGCAGCCTTGTGACAGTTCGTGCC
CTTGTGTGATAGCACAAAATTTTGTGAAAAGTTTGTCAATGTAGTTCAGAGTGTCAA
ACCGCTTTCCGGGATGCCGCTGCAAAGCACAGTGCAACCAAGCAGTGCCCGTGTACC
TGCTGTCCGAGAGTGTGACCCTGACCTCTGTCTTACTTGTGGAGCCGCTGACCATTTGG
ACAGTAAAAATGTGCTCCTGCAAGAACTGCAGTATTCAGCGGGGCTCCAAAAAGCATCTAT
TGCTGGCACCATCTGACGTGGCAGGCTGGGGGATTTTTATCAAAGATCCTGTGCAGAAA
ATGAATTCATCTCAGAATACTGTGGAGAGATTATTTCTCAAGTGAAGCTGACAGAAGAG
GGAAAGTGATGATAAATACATGTGCAGCTTTCTGTTCAACTTGAACAATGATTTTGTGG
TGGATGCAACCCGCAAGGGTAACAAAATTCGTTTTGCAAATCATTGCGTAAATCCAACT
GCTATGCAAAAAGTTATGATGGTTAACGGTGATCACAGGATAGGTATTTTGGCAAGAGAG
CCATCCAGACTGGCGAAGAGCTGTTTTTGGATTACAGATACAGCCAGGCTGATGCCCTGA
AGTATGTCGGCATCGAAAGAGAAATGGAATCCCTTGACATCTGTACTCCTCCTCCCTCCT
CCTCTGAAACAGCTGCCTTAGCTTCAGGAACCTCGAGTACTGTGGCAATTTAGAAAAAG
AACATGCAGTTTGAATTTCTGAATTTGCAAAGTACTGTAAGAATAATTTATAGTAATGAG
TTTTAAAAATCACTTTTTATTGCCTTCTCACCAGCTGCAAAGTGTTTTGTACCAGTGAAT
TTTTGCAATAATGCAGTATGGTACATTTTTCACTTTGAATAAAGAATACTTGAACCTTGA
AAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004456 unedited</p> <pre>GTCAGATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGTCGCGTCCGAC ACCCGGTGGGACTCAGAAGGCAGTGGAGCCCCGGCGGGCGGCGGCGGCGGGGGC GACGCGGGGAACAACGCGAGTCGGCGCGGGGACGAAGAATAATCATGGCCAGACTGG GAAGAAATCTGAGAAGGGACCAGTTTGTGGCGGAAGCGTGTAAAATCAGAGTACATGCG ACTGAGACAGCTCAAGAGGTTTCAGACGAGCTGATGAAGTAAAGAGTATGTTTAGTTCCAA TCGTCAGAAAAATTTGGAAAGAACGGAATCTTAAACCAAGAATGGAAACAGCGAAGGAT ACAGCCTGTGCACATCCTGACTTCTGTGAGCTCATTGCGCGGGACTAGGGAGTGTTCCGT GACCAGTGACTTGGATTTTCCAACACAAGTCATCCCATTAAGACTCTGAATGCAGTTGC TTCAGTACCATAATGTATTCTTGGTCTCCCCTACAGCAGAATTTTATGGTGGAAGATGA AACTGTTTTACATAACATTCTTATATGGGAGATGAAGTTTTAGATCAGGATGGTACTTT CATTGAAGAACTAATAAAAAATTATGATGGGAAAGTACACGGGGATAGAGAATGTGGTT TATAAATGATGAAATTTTGTGGAGTTGGTGAATGCCCTTGGTCAATATAATGATGATGA CGATGATGATGATGGAGACGATCCTGAAGAAAGAGAAAGAAAGCAGAAAGATCTGGAGGG ATCACCAGATGATAAGAAAGCCGCCACCTCGGAAATTTNCTTCTGATAAAAATTTTGG AAGCCATTTC</pre>
Restriction Sites:	Please inquire
ACCN:	NM_004456
Insert Size:	2700 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_004456.3 , NP_004447.2
RefSeq Size:	2695 bp
RefSeq ORF:	2256 bp
Locus ID:	2146
UniProt ID:	Q15910
Cytogenetics:	7q36.1
Domains:	myb_DNA-binding, SET
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<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 (1) encodes the longest isoform (a).</p>