

## Product datasheet for MC205641

### Ezh1 (NM\_007970) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ezh1 (NM_007970) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ezh1
Synonyms:	ENX-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

#### Fully Sequenced ORF:

>BC007135  
GGATGGAGGATCTTGCCATTCGCTGCAGAACAGAGGTACATTATAAAGTCAACACTTCCGCTGCATTC  
CATGAGGAAAATGGATATAGCAAGTCCCCAAGTCCAAATGCATCACATACTGGAAAAGAAAAGTGAAA  
TCTGAGTATATGCGGCTTCGACAGCTCAAACGGCTCCAGGCAAATATGGGAGCAAAGGCTCTGTATGTGG  
CAAATTTTGC AAAAGTTCAAGAAAAAACCCAAATCCTCAATGAAGAGTGGAAAGAACTTCGTGTCCAGCC  
TGTTCCAGCCAATGAAGCCGTGAGTGGGCACCCTTTTCTGAAAAAGTGTACCATAGAGAGCATTTTCCCA  
GGGTTTCGACAGCCAGGATATGTTGATGCGGTCTCTGAACACTGTTGCACTGGTCCCATCATGTATTCTT  
GGTCCCCCTCCAGCAGAATTTTCATGGTGAAGATGAGACGGTTTTGTGCAATATTCATACATGGGTGA  
CGAGGTGAAGGAAGAAGATGAGACTTTTCATCGAAGAGCTGATCAATAACTATGATGGCAAAGTCCACGGT  
GAAGAAGAGATGATCCCTGGATCTGTGCTGATCAGCGATGCTGTGTTTCTGGAGCTGGTGGATGCCCTCA  
ACCAGTACTCTGATGAGGAGGAGGACGGGCACAACGACCCTCCGATGGAAAGCAAGACGACAGCAAAGA  
GGACCTGCCGGTAACAAGAAAACGGAAGCGCCATGCTATCGAAGGCAACAAAAGAGTTCCAAGAAACAG  
TTTCCAAATGACATGATCTTCAGCGCCATTGCGTCCATGTTTCCCTGAGAATGGTGTCCCTGACGACATGA  
AGGAGAGGTATCGAGAGCTGACAGAGATGTCAGACCCCAATGCACTTCCCCCTCAGTGCACACCCCAACAT  
CGATGGCCCCAACGCCAAGTCAAGTGCAGCGGGAGCAGTCTCTGCACTCTTTCCACACCCTTTTCTGCCGG  
CGCTGTTTTAAATATGACTGCTTCCCTTACCCTTTCCACGCCACCCCAATGTATATAAGCGCAAGAACA  
AGGAAATCAAGATTGAGCCAGAACCCTGTGGCAGACAGTCTTCTTTTGTGCTGGAAGGAGCAAAGGAGTA  
CGCCATGCTGCACAACCCTCGGTCCAAGTGTCTGGGCGCCGCCGGAAGGCACCCAGTGGTCAAGTGTCT  
TCCTGCTCCAATGCATCAGCTTCTGCTATGGCTGAAACTAAAGAAGGAGACAGTGATAGAGACACTGGCA  
ATGACTGGGCCTCCAGTTCTTCAGAGGCTAACTCTGCTGTGAGACCCCAACGAAACAGAAAAGCCAGTCC  
AGCCCCAGCTCAGCTCTGTGTTGTGGAAGCCCCCTCAGAGCCGGTGAATGGACCGGAGCCGAAGAATCT  
CTTTTCCGAGTCTTCCACGGCACCTATTTCAACAACCTTCTGCTCAATAGCCAGGCTTCTGGGGACAAAGA  
CATGCAAGCAGGTCTTTTCAAGTTTGCAGTCAAAGAATCACTTATCCTAAAGCTGCCAACAGATGAGCTCAT  
GAACCCTGCACAGAAGAAGAAAAGAAAACACAGGTTGTGGGCCGCACACTGCAGGAAAATTCAGCTGAAG  
AAAGATAACAATTCTACACAAGTGTATAACTACCAACCCTGTGACCACCCAGACCCGTCCTGTGACAGCA  
CATGCCCTGCATCATGACCCAGAACTTTTGTGAAAAGTCTGCCAGTGCAGCCAGACTGCCAGAAATCG  
CTTTCTGTTGCTGCTGTAAGACTCAGTGCAATACCAAGCAATGTCATGCTACTTGGCAGTTCGTGAG



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TGTGACCCTGACTTGTGCCTCACCTGTGGGCGCTCAGAGCACTGGGACTGTAAGGTGGTGTCTTGCAAAA  
 ACTGCAGCATCCAGCGTGGCCTCAAAAAGCACCTGCTGCTGGCCCTTCCGATGTGGCCGGATGGGGCAC  
 CTTTCATCAAGGAGTCTGTGCAGAAGAATGAATTCATTTCTGAATATTGTGGTGAGCTCATCTCAGGAT  
 GAGGCTGATCGTCGAGGGAAGGTCTATGATAAATACATGTCTAGCTTCTCTTCAACCTCAACAATGATT  
 TTGTAGTGGATGCTACCCGAAAAGGAAACAAAATTCGCTTTGCAAACCATTCAAGTGAACCCCACTGTTA  
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 GAAGAGCTCTTCTTTGATTATAGGTACAGCCAAGCTGATGCCCTCAAGTATGTGGGCATCGAGAGGGAAA  
 CGGACGTCTTCTAGCCCTCTGGGCCCCGTGCCAGTGTGTGGTGGCAGCACTGTCATGGCTTCAGGCACA  
 CACCAGTCTGCTCCAGCTCCTGCAATGTCTTCCATGCTGAGAAAACCCACCCACCCTGCATAACTAGGCC  
 TCCACTTTATTCCAAGGGGACACACTGCCTCAGGAGAGGGGAAACAGAGGCGGTGAAGACCTGGTCTCCC  
 AGGAGAGTTCAGATGTAAGAAGCTGCGCTCCCATGCCAGGAGGAGGAGATGGTGGGTGTGGGATAATGCC  
 AGGGCTTGAGTTTTCTCAGCTGCCAAGCCGGGACCCTCAGGAACCAACCAGTGTACCATTTTAGCTT  
 TCTCGATCAAGAGTTCATGTCACTGACTGTGCTCAGGGTTAAAGGTGAGCTGGCAAGCATTGCAGACA  
 GAACTCAAAGGGAGACATGTCTCCATGCCATCAAAGCAGGAATTAAGGATACAGGAAGGAAAACCTAAG  
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 GCAGGGTGGTTTTAGGCTCCCAGGACATGTGCCAGTGACCCACTCCTTCCAAGTTCAGGCTCAGTGGC  
 AACATGCCTAAGCTGCGGCTATGCCTGGTGGGAGTGAGTACTCGGGGTCAAGTGAAGCTGCAGCTGTCCC  
 TACCCTCCATTCTCAGCGGCTTGTCCATGGAGCAGCTTGTGCTTTCTCAGGGTAGCTGGGCCTAATC  
 TAGGCTAGAGGAAGATGTTGCTGGTCTGGTTACTCCCTGTCTGTAGTACCTGCTTGGTGTGTTTGT  
 GGGTGTGTGGGTGCCATTGCACATTTAGGAGTGTGTACAGTGCAGGGTAGACTGCCAGGCAGACCACC  
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 TTGAGCCAAGTCTCTGCCGAATCCACTTCTGAAGGAGGAAGAGGAGAGTGAAGATCCTGCAGTTTAA  
 TATCATTTTCTGAGAGGCAGGAGGAGCTGACTTGACACAAAAACAAAACACTAGTCAGCATAGCTACCTTG  
 TGTCTGGTGTGCTGAGAATAGGGGCTTGTGCTGGAAGGGCGTGGGTGGATACAGACTGCCCTAGAGTGT  
 TAGAATGGGGCACAAGCTCCTTGCTTCCCTGAAGAACCAGAGCTCCTGTGGCCCTTGCTAACCATTCCTT  
 CTCCCACACTGCCTCTTAGAGATTTGCATGGGACGTGCATGCTTGTGCACATACTCCTTCACTACTG  
 CAGGTCGGTGTGTGCCTCACACTCAGCACACTCTACAGCTCCTCTCCCCACACCCAGTTCTGAAACTGAC  
 ATCTGCTGGGGGTTATGTCTATTGTGTGTATCAGGGATACCCTCCAGCCTAACGATAGGCTCTGAATTA  
 CTCAGTCTCTGGGAAACCAGAGACTGGTGGAGGAGGGGCTGGTCATGAGGAATGCTTTAAAACATGTCGG  
 TTCTAGACTGAGCTCAGCCTTCCCTCAGCAGGCATCACTGGCAGCCCGCTCCCTCCGAGTTCAGGCCAA  
 TAATACTCATGCGCTCCAGCCGCCACTCTGGTTCCTGCTGTCTCTATTTTTAATGACGGGTTTACC  
 CCTCCTCTCCACTTCTGCCCCACGTACAGTGGTAGATAAAGTGAGGTGCTGTGGACTGGTGGGAACTGG  
 CGTACCTGCGGCTTAATTGCCAGTAAATTTCTTGCACCTTAAAGTCTGTGGCTTGTGACCTCTTATCTA  
 ATAAAGTGTTAAGACTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_007970
- Insert Size:** 2253 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).

**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:** [BC007135](#), [AAH07135](#)

**RefSeq Size:** 4179 bp

**RefSeq ORF:** 2253 bp

**Locus ID:** 14055

**UniProt ID:** [P70351](#)

**Cytogenetics:** 11 64.37 cM

**Gene Summary:** This gene encodes a member of the Polycomb-group (PcG) family. The encoded protein is interchangeable with the related Enhancer of zeste 2 (Ezh2) protein as a core component of the polycomb repressive complex 2 (PRC2), which methylates histone H3 at lysine 27 and results in the transcriptional repression of affected target genes. This complex is involved in carrying out cell-fate decisions during embryonic stem cell differentiation. [provided by RefSeq, Sep 2014]