

Product datasheet for **RR211701**

Ezh1 (NM_001107051) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ezh1 (NM_001107051) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ezh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR211701 representing NM_001107051
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATATAGCAAGTCCCCAACTTCCAATGCATCACATACTGGAAAAGAAAGGTGAAATCTGAATACA
 TCGGGCTGCGGCAGCTCAAACGGCTTCAGGCAAATATGGGGCAAAGGCTCTGTATGTGGCAAATTTTGC
 AAAAGTTCAAGAAAAACCCAAATCCTCAATGAAGAGTGAAGAAACTTCGCGTCCAGCCTGTTCAGCCA
 ATGAAGCCTGTGAGTGGGCACCCCTTTTCTGAAAAAGTGTACCATAGAGAGCATTTTCCCAGGTTTGTACA
 GCCAGGATATGTTGATGAGGCTCTGAACACAGTTGCATTGGTTCCAATCATGTATTCTGGTCCCTCT
 CCAGCAGAACTTCATGGTGGAGGATGAGACGGTTTTGTGCAATATTCCTACATGGGTGATGAGGTGAAG
 GAGGAAGACGAACTTTCATCGAGGAGCTGATCAACAATATGACGGCAAAGTCCATGGTGAAGAAGAGA
 TGATCCCTGGGTCTGTGCTGATCAGCGATGCTGTGTTTCTGGAGTTGGTAGATGCCCTCAATCAGTACTC
 GGATGAGGAGGAGGAAGGCCACAATGACACCTCCGATGAAAAGCAGGATGACAGCAAAGAGGACCTGCCA
 GTGACAAGAAAGCGAAACGCCATGCTATTGAAGGCAACAAAAGAGCTCCAAGAAACAGTTTCCAATG
 ACATGATCTTCAGCGCCATTGCTTCCATGTTCCCGGAGAATGGTGTCCCTGACGACATGAAGGAGAGGTA
 TCGAGAGCTGACAGAGATGTCGGACCCCAATGCACTTCCCTCAGTGCACACCCAAATCGATGGCCCC
 AATGCTAAGTCAGTGCAGCGGGAGCAGTCTCTGCACTCTTCCACACCCTGTTCTGTGCGCGCTGTTTTA
 AATACGACTGCTTCCCTCACCCCTTCCACGCCACCCCTAATGTGTACAAAAGGAAGAACAGAGAAATCAA
 GATTGAGCCAGAACCATGTGGTGCAGACTGCTTCCCTTGGCTGGAAGGAGCAAAGGAGTACGCCATGCTG
 CATAACCCCTCGTCCAAGTGTCTGCGCGCCGCCGCAAGGCACCCAGTGGTCACTGCTTCCCTGTTCCA
 ATACATCCGCTCTGCTATGGCCGAGACTAAAGAAGGAGACAGTACAGAGACACTGGCAATGACTGGGC
 CTCAGTTCTTTCAGAGGCTAACTCTCGCTGTGACACCCACGAAACAGAAAGTGTCCAGCCCCACCT
 CAGCTCTGTGTTGTGGAAGCTCCCTCAGAGCCCGTGAATGGACTGGAGCTGAAGAATCTTTTTCCGAG
 TCTTCCATGGCACCTACTTCAACAACCTTCTGCTCAATAGCCAGGCTTCTGGGGACAAAGACATGCAACA
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 CAGAAGAAGAAAAGAAAACACAGGTTGTGGCTGCGCACTGCAGGAAAATTCAGCTGAAGAAAGACAACA
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 CATCATGACCCAGAACTTTTGTGAAAAGTTCTGCCAGTGCAGCCAGACTGCCAGAACCGCTTCCCTGGT
 TGTGCTGTAAGACTCAGTGAATACCAAGCAGTGTCTTGTACTTGGCCGTTCTGTGAGTGTACCCTG
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 CCAGCGTGGCCTCAAAAAGCACCTGCTGCTGGCCCTTCCGATGTGGCCGGATGGGGCACCTTCATCAAG
 GAGTCTGTGAGAAGAACGAATTCATTTCTGAATACTGTGGTGAAGTCACTCTCAGGATGAGGCTGATC
 GACGAGGGAAGTCTATGATAAATATGTCCAGCTTCTTCAACCTCAACAATGATTTTGTAGTGGGA
 TGCTACCCGAAAGGAAACAAAATTCGCTTTCGCAACCATTCAGTGAACCCCACTGTTATGCCAAAGTG
 GTCATGGTGAATGGAGATCACCGCATTGGGATCTTTCGAAGAGAGCAATTCAGGCTGGCGAAGAGCTCT
 TCTTTGATTATAGGTACAGCCAAGCTGATGCCCTCAAGTATGTGGCATCGAAAGGGAACCGGACGCTCT
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211701 representing NM_001107051
 Red=Cloning site Green=Tags(s)

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MDIASPPTSKCITYWKRKVKSEYMRLRQLKRLQANMGAKALYVANFAKVQEKQTQILNEEWKCLRVPVQP
MKPVSGHPFLKKCTIESIFPGFDSQDMLMRLSLNTVALVPIMYSWSPLQQNFMVEDET VLCNIPYMGDEVK
EEDETFIEELINNYDGKVHGEEMIPGSLVLSDAVFLELVDALNQYSDEEEEGHNDTSDGKQDDSKEDLP
VTRKRKRHAIIEGNKSSKKQFPNDMIFSAIASMFPENGVPPDDMKERYRELTMSDPNALPPQCTPNIDGP
NAKSVQREQSLHSFHTLFCRRCFKYDCFLHPFHATPNVYKRKNREIKIEPEPCGADCFLWLEGAKEYAML
HNPRSKCSGRRRRRHPVVSASCSNTSASAMAETKEGSDRDTGNDWASSSSEANSRCQTPTKQKASPAPP
QLCVVEAPSEPVEWTGAEE SLFRVFHGTYFNNFCSIARLLGKTCKQVFQFAVKESLILKLPDEL MNPS
QKKKRKHRLWAAHCRKIQLKDDNNSTQVYNYQPCDHPDRPCDSTCPCIMTQNFCEKFQCQSPDCQNRFP
CRCKTQCNTKQPCYLA VRECDPDLCLTCGASEHWDCVVSCKNCSIQRGLKHHLLAPSDVAGWGTFIK
ESVQKNEFISEYCGELISQDEADRRGKVYDKYMSSFLNLNDFVVDATRKGNKIRFANHSVNPNCYAKV
VMVNGDHRIGIFAKRAIQAGEELFFDYRYSQADALKYVGIERETDVF
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001107051

ORF Size: 2241 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_001107051.1](#), [NP_001100521.1](#)

RefSeq Size: 4245 bp

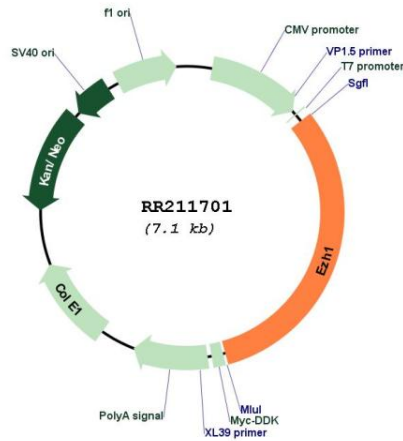
RefSeq ORF: 2244 bp

Locus ID: 303547

Cytogenetics: 10q31

MW: 85.3 kDa

Product images:



Circular map for RR211701