

Product datasheet for **RG202367**

EZH1 (NM_001991) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | EZH1 (NM_001991) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | EZH1 |
| Synonyms: | KMT6B |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG202367 representing NM_001991
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATACCAATCCCCTACCTCCAATGTATCACTTACTGAAAAGAAAAGTGAAATCTGAATACA
 TCGGACTTCGACAACCTTAACCGCTTCAGGCAAATATGGGTGCAAAGCCTTTGTATGTGGCAAATTTTGC
 AAAGGTTCAAGAAAAAACCAGATCCTCAATGAAGAATGGAAGAAGCTTCGTGTCCAACCTGTTTCAGTCA
 ATGAAGCCTGTGAGTGGACACCCCTTTTCTCAAAAAGTGTACCATAGAGAGCATTTTCCCGGGATTTGCAA
 GCCAACATATGTTAATGAGGTCCTGAACACAGTTGCATTGGTCCCATCATGTATTCTGGTCCCCTCT
 CCAACAGAACCTTATGGTAGAAGATGAGACGGTTTTGTGCAATATTCCTACATGGGAGATGAAGTGAAA
 GAAGAAGATGAGACTTTTATTGAGGAGCTGATCAATAACTATGATGGGAAAGTCCATGGTGAAGAAGAGA
 TGATCCCTGGATCCGTTCTGATTAGTGATGCTGTTTTTCTGGAGTTGGTCGATGCCCTGAATCAGTACTC
 AGATGAGGAGGAGGAAGGCACAATGACACCTCAGATGAAAAGCAGGATGACAGCAAAGAAGATCTGCCA
 GTAACAAGAAAGAGAAAGCGACATGCTATTGAAGGCAACAAAAGAGTTCCAAGAAACAGTTCCCAAATG
 ACATGATCTTCAGTGCAATTGCCTCAATGTTCCCTGAGAATGGTGTCCCAGATGACATGAAGGAGAGGTA
 TCGAGAATAACAGAGATGTGACACCCCAATGCACTTCCCCTCAGTGCACACCCCAACATCGATGGCCCC
 AATGCCAAGTCTGTGACGCGGGAGCAATCTCTGCACTCCTTCCACACACTTTTTTCCCGGCGCTGCTTTA
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 ATGCCTCAGCCTCTGCTGTGGCTGAGACTAAAGAAGGAGACAGTGACAGGGACACAGGCAATGACTGGGC
 CTCAGTTCTTTCAGAGGCTAACTCTCGCTGTGACTCCCAAAAACAGAAGGCTAGTCCAGCCCCACCT
 CAACTCTGCGTAGTGGAAGCACCTCGGAGCCTGTGGAATGGACTGGGGCTGAAGAATCTTTTTTCGAG
 TCTTCCATGGCACCTACTTCAACAACCTTCTGTTCAATAGCCAGGCTTCTGGGGACCAAGCGTGCAAGCA
 GGTCTTTCAGTTTGCAGTCAAAGAATCACTTATCCTGAAGCTGCCAACAGATGAGCTCATGAACCCCTCA
 CAGAAGAAGAAAAGAACACAGATTGTGGGCTGCACACTGCAGGAAGATTCAGCTGAAGAAGATAACT
 CTTCCACACAAGTGTACAACCTACCAACCCTGCGACCACCAGACCCTGTGACAGCACCTGCCCTG
 CATCATGACTCAGAATTTCTGTGAGAAGTTCTGCCAGTGAACCCAGACTGTGAGAAATCGTTTCCCTGGC
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 CCAGCGTGGACTTAAGAAGCACCTGCTGTGGCCCCCTCTGATGTGGCCGGATGGGGCACCTTCATAAAG
 GAGTCTGTGAGAAGAAGCAATTCATTTCTGAATACTGTGGTGAAGCTCATCTCTCAGGATGAGGCTGATC
 GACGCGGAAAGGTCTATGACAAAACATGTCCAGCTTCTCTTCAACCTCAATAATGATTTTGTAGTGGA
 TGCTACTCGGAAAGGAAACAAAATTCGATTTGCAAATCATTGAGTGAATCCCAACTGTTATGCCAAAGTG
 GTCATGGTGAATGGAGACCATCGGATTGGGATCTTTGCCAAGAGGGCAATTCAGCTGGCGAAGAGCTCT
 TCTTTGATTACAGGTACAGCCAAGCTGATGCTCTCAAGTACGTGGGGATCGAGAGGGAGACCGACGTCCT
 T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202367 representing NM_001991
 Red=Cloning site Green=Tags(s)

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MEIPNPPTSKCITYWKRKVKSEYMRLRQLKRLQANMGAKALYVANFAKVQEKQTQILNEEWKCLRVPVQS
MKPVSGHPFLKKCTIESIFPGFASQHMLMRLSLNTVALVPIMYSWSPLQQNFMVEDET VLCNIPYMGDEVK
EEDETFIEELINNYDGKVHGEEMIPGSVLI SDAVFLELVDALNQYSDEEEEGHNDTSDGKQDDSKEDLP
VTRKRKRHAIIEGNKSSKKQFPNDMIFSAIASMFPENGV PDDMKERYRELTMSDPNALPPQCTPNIDGP
NAKSVQREQLHSFHTLFCRRCFKYDCFLHPFHATPNVYKRKNKEIKIEPEPCGTDCFLLEGAKEYAML
HNPRSKCSGRRRRRHIVSASCSNASASAVAETKEGSDRDTGNDWASSSSEANSRCQTPTKQKASPAPP
QLCVVEAPSEPVEWTGAEESLFRV FHGYFNNFCSIARLLGKTCKQVFQFAVKESLILKLPDEL MNPS
QKKKRKHRLWAAHCRKIQLKDNSSTQVYNYQPCDHPDRPCDSTCPCIMTQNFCEKFQCQNPDCQNRFPG
CRCKTQCNTKQCPCYLAVRECDPDLCLTCGASEHWDCKVVSCKNCSIQRGLKHHLLAPSDVAGWGTFIK
ESVQKNEFISEYCGELISQDEADRRGKVYDKYMSSFLFNLNDFVVDATRKGNKIRFANHSVNPNCYAKV
VMVNGDHRIGIFAKRAIQAGEELFFDYRYSQADALKYVGIERETDVL
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

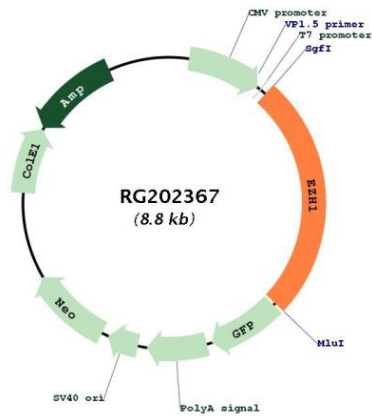


ACCN: NM_001991

ORF Size: 2241 bp

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| 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: | <p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p> |
| Components: | <p>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).</p> |
| 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_001991.5 |
| RefSeq Size: | 4640 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: | <p>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]</p> |

Product images:



Circular map for RG202367