

Product datasheet for **MG210461**

Ezh1 (BC007135) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ezh1 (BC007135) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ezh1
Synonyms:	mKIAA0388
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG210461 representing BC007135
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGAAAAATGGATATAGCAAGTCCCCAACTTCCAATGCATCACATACTGGAAAAGAAAAGTAAAT
 CTGAGTATATGCGGCTTCGACAGCTCAAACGGCTCCAGGCAAATATGGGAGCAAAGGCTCTGTATGTGGC
 AAATTTTGCAAAGTTCAAGAAAAACCCAAATCCTCAATGAAGAGTGGAAGAACTTCGTGTCCAGCCT
 GTTCAGCCAATGAAGCCCGTGAGTGGGCACCTTTTCTGAAAAAGTGTACCATAGAGAGCATTTCACAG
 GGTTTCGACAGCCAGGATATGTTGATGCGGTCTCTGAACACTGTTGCACTGGTTCCCATCATGTATTCTG
 GTCCTCTCCAGCAGAATTCATGGTGAAGATGAGACGGTTTTGTGCAATATTCATACATGGGTGAC
 GAGGTGAAGGAAGAAGATGAGACTTTCATCGAAGAGCTGATCAATAACTATGATGGCAAAGTCCACGGT
 AAGAAGAGATGATCCCTGGATCTGTGCTGATCAGCGATGCTGTGTTTCTGGAGCTGGTGGATGCCCTCAA
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 GACCTGCCGGTAACAAGAAAACGGAAAGCCATGCTATCGAAGGCAACAAAAAGAGTTCCAAGAAAACAGT
 TTCCAATGCATGATCTTCAGCGCCATTGCGTCCATGTTTCTGAGAATGGTGTCCCTGACGACATGAA
 GGAGAGGTATCGAGAGCTGACAGAGATGTGACACCCCAATGCACTTCCCCCTCAGTGCACACCCAACATC
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 GGAAATCAAGATTGAGCCAGAACCGTGTGGCACAGACTGCTTCTTTTGTGGAAGGAGCAAAGGAGTAC
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 TGTAGTGGATGCTACCCGAAAGGAAACAAAATTCGCTTTGCAAACCATTCAGTGAACCCCAACTGTTAT
 GCCAAAGTGGTTATGGTGAATGGAGATCACCGCATTGGGATCTTTGCCAAGAGAGCAATTCAGGCTGGCG
 AAGAGCTCTTCTTTGATTATAGGTACAGCCAAGCTGATGCCCTCAAGTATGTGGGCATCGAGAGGGAAAC
 GGACGTCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210461 representing BC007135
Red=Cloning site Green=Tags(s)

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MRKMDIASPPTSKCITYWKRKVKSEYMRLRQLKRLQANMGAKALYVANFAKVQEKQILNEEWKLRVQP
VQPMKPVSQHPFLKKCTIESIFPGFDSQDMLMRLSLNTVALVPIMYSWSPLQONFMEDETVLCNIPYMGD
EVKEEDEFIEELINNYDGKVHGEEMIPGSQLISDAVFLLELDALNQYSDEEEDGHNDPSDGKQDSDKE
DLPVTRKRKRHAIEGNKSSKKQFPNDMIFSAIASMFPENGVPDDMKERYRELTEMSDPNALPPQCTPNI
DGPNAKSQREQSLHSFHTLFCRRCFKYDCFLHPFHATPNVYKRKNKEIKIEPEPCGTDCFLLEGAKEY
AMLHNPRSKCSGRRRRRHPVVSASCSNASASAMAETKEGSDRDTGNDWASSSEANSRCQTPTKQKASP
APAQLCVVEAPSEPVWGTGAEESLFRVFGHYFNNFCSIARLLGKTCKQVQFAYVESLILKLPTDELM
NPAQKKRKRHLWAAHCRKIQLKDDNSTQVYNYQPCDHPDRPCDSTCPCIMTQNFCEKFCQPCDQNR
FPGCRCKTQCNTKQCPCYLAVRECDPLCLTCGASEHWDCKVVSCKNCSIQRGLKHHLLAPSDVAGWT
FIKESVQKNEFISEYCGELISQDEADRRGKVDKYMSSFLFNLNDFVVDATRKGKIRFANHSVNPNCY
AKVVMVNGDHRIGIFAKRAIQAGEELFFDYRYSQADALKYVGIERETDVF
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC007135

ORF Size: 2252 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: [BC007135](#), [AAH07135](#)

RefSeq Size: 4179 bp

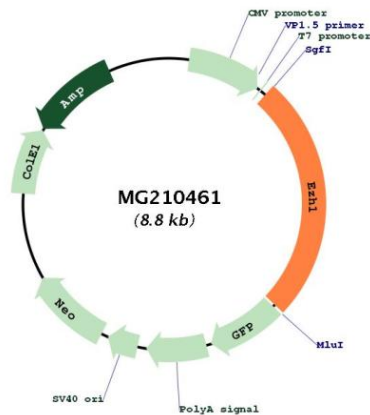
RefSeq ORF: 2252 bp

Locus ID: 14055

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]

Product images:



Circular map for MG210461