

Product datasheet for **MG223905**

Zmynd11 (NM_144516) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zmynd11 (NM_144516) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zmynd11
Synonyms:	2210402G22Rik; BS69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223905 representing NM_144516
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACGTTTAAACAAAAGACGACAGGCGGATACAAAAGCTATCCAGCATCTTTGGGCAGCCATTGAAA
 TTATCAGAAATCAGAAGCAGATTGCCAACATTGATCGTATTACAAAGTATATGTCCCAGTCCACGGTAT
 GCATCCCAAAGAGACCACCCGCCAGCTAGCTTAGCTGTGAAAGATGGTCTTATTGTGAAAACCTTAACA
 GTGGGCTGCAAAGGTTCAAAGCTGGTATTGAACAGGAAGGATATTGGTTACCAGGAGATGAGATTAGCA
 TTAAGAAGAAGCACTCTAACAAGCAGGAAATGGGCACCTACTTGAGGTTTCATCGTCTCCCGAATGAAGGA
 GCGGGCTATAGACCTTAATAAGAAAGGAAAGGACAGTAAGCATCCTATGTACCGGAGGCTGGTCCACTCA
 GCTGTTGACGTCCTACCATAACAAGAGAAGGTGAATGAGGGGAAGTACCGGAGTTACGAGGAGTTCAAGG
 CTGACGCACAGCTGCTTCTCCACAACACAGTGATCTTCTATGGAGCAGACAGTGAGCAGGCGGCATTGC
 ACGGATGTTATATAAAGACACGTGTCACGAGCTGGACGAGCTGCAGCTTTGCAAGAACTGCTTCTATCTG
 TCAAACGCACGGCCGACAACTGGTTCTGCTACCTTGCATACCTAATCATGAGCTGGTTTGGGGCTAAAA
 TGAAGGTTTTGGGTTTTGGCCAGCCAAAGTCATGCAGAAAGAAGACAATCAAGTGGATGTTTCGCTTCTT
 TGGCCATCACCACCAGAGAGCCTGGATTCTTCTGAAAACATCCAGGATATCACGGTCAATGTTCCACCGA
 CTGCACGTGAAGCGCAGCATGGGCTGGAAGAAGGCCTGTGACGAGCTGGAAGTGCATCAGCGCTTCTCTC
 GTGAAGGAAGGTTCTGGAAGTCTAAGAATGAGGACCGAGGTGAGGAAGAGGCAGAATCCAGTATCTCCTC
 CACCAGTAACGAGCAGCTGAAGTCACTCAAGAGCCAAGAGCAAAGAAAGGACGACGTAATCAGAGTGTG
 GAGCCCAAAAAGGAAGAACCAGCCAGAAACGGAAGCAGTGAGTCCAGCCAGGAAATCCCCACAATGC
 CTCAGCCAATTGAGAGGTTGTCAGTGTCAACCCAGACCAAGAAGTTAAGTGCCTTCCCCACGAATGCT
 GCATCGAAGCACTCAGACGACGAGCGACGGCTGTGTCAGAGCATGTGCCACGACAAGTACACCAAAATT
 TTTAATGACTTTAAAGACAGGATGAAGTCGACCACAAGCGGAAACAGAGAGAGTGGTCCGTGAAGCGC
 TGGAAAAGTTGCGTTCTGAAATGGAAGAAGAAAAAGACAGGCCGTGAACAAAGCTGTGGCCAGCCTGCA
 GGGCGACATGGACAGAAAGGTAAGCAGCTGAAGGAGAAGTGAAGGAAGAGTTTGTAGAGGAGATCAAG
 AAGCTAGCGGCGCAGCACAAGCAGCTCATTTCCAGACCAAGAAGAAGCAGTGGTGTACAACCTGTGAGG
 AGGAGGCCATGTACCACTGCTGCTGGAACACGTCCTACTGCTCCATCAAGTGCCAGCAGGAGCACTGGCA
 CGCAGAGCACAAGCGCACCTGCCGCCGAAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223905 representing NM_144516
 Red=Cloning site Green=Tags(s)

MARLTKRRQADTKAIQHLWAAIEIIRNQKQIANIDRITKYMSRVHGMHPKETTRQLSLAVKDGLIVETLT
 VGCKGSKAGIEQEGYWLPGEIISIKKKHSNKQEMGTYLRFIVSRMKERAIDLNKKGKDSKHPMYRRLVHS
 AVDVPTIQEKVNEGKYRSYEEFKADAQLLLHNTVIFYGADSEQADIARMLYKDTCHELDELQLCKNCFYL
 SNARPDNWFYCPCIPNHELWAKMKGFVPAKVMQKEDNQVDVRFVGHHRQAWIPSENIQDITVNVHR
 LHVKRSMGWKKACDELELHQRFLREGRFWVSKNEDRGEAAESSISSTSNQLKVTQEPRAKGRNQSV
 EPKKEPEPETEAVSSSQEIPMPQPIERVSVSTQTKLSASSPRLHRSTQTTSDGVCQSMCHDKYTKI
 FNDFKDRMKS DHKRETERVVREALEKLRSEMEEEKRQAVNKAVASLQGDMDRKGKQLKEKCKEKFVEEIK
 KLAQAQHKQLISQTKKKQWCYNCEEEAMYHCCWNTSYCSIKCQEQEHWAHEHKRTCRKR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_144516

ORF Size: 1644 bp

OTI Disclaimer: 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.

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](#)

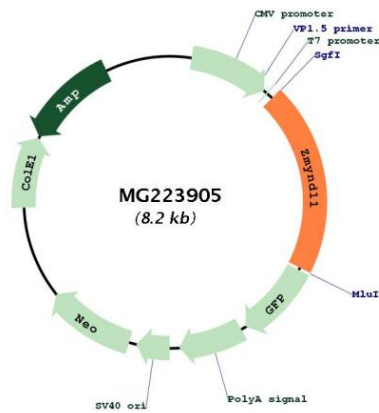
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_144516.4</u>
RefSeq Size:	3846 bp
RefSeq ORF:	1647 bp
Locus ID:	66505
Cytogenetics:	13 A1
Gene Summary:	Chromatin reader that specifically recognizes and binds histone H3.3 trimethylated at 'Lys-36' (H3.3K36me3) and regulates RNA polymerase II elongation. Does not bind other histone H3 subtypes (H3.1 or H3.2). Colocalizes with highly expressed genes and functions as a transcription corepressor by modulating RNA polymerase II at the elongation stage (PubMed:24590075). Binds non-specifically to dsDNA (By similarity). Acts as a tumor-suppressor by repressing a transcriptional program essential for tumor cell growth (PubMed:24590075).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223905