

Product datasheet for **MG208886**

Zmynd11 (BC058999) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zmynd11 (BC058999) 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:

>MG208886 representing BC058999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTC**CCGAGTCCACGGTATGCATCCCAAAGAGACCACCCGCAGCTGAGCTTAGCTGTGAAAGATGGTC**
 TTATTGTCGAAACTCTAACAGTGGGCTGCAAAGGTTCAAAGCTGGTATTGAACAGGAAGGATATTGGTT
 ACCAGGAGATGAGATTGACTGGGAAACAGAAACTCATGACTGGTATTGTTTTGAATGCCATTTGCCTGGA
 GAGGTGTTGATATGTGACCTGTGTTTTCGTGTGTATCATTCCAAGTGTGTTGTCTGATGAGTTCAGGCTTA
 GAGACAGCAGTAGTCACTGGCAGTGGCCAGTTGCAGGAGCATTAAAGAAGAAGCACTCTAACAAAGCAGGA
 AATGGGCACCTACTTGAGGTTTCATCGTCTCCCGAATGAAGGAGCGGGCTATAGACCTTAATAAGAAAGGA
 AAGGACAGTAAGCATCCTATGTACCGGAGGCTGGTCCACTCAGCTGTTGACGTCCCTACCATAACAAGAGA
 AGGTGAATGAGGGGAAGTACCGGAGTTACGAGGAGTTCAGGCTGACGCACAGCTGCTTCCCAACAAC
 AGTGATCTTCTATGGAGACAGTGAAGCAGCGGACATTGCACGGATGTTATATAAAGACACGTGTCACGAG
 CTGGACGAGCTGCAGCTTGAAGAAGTCTTCTATCTGTCAAACGCACGGCCGACAACCTGGTTCTGCT
 ACCCTTGCAATCAATCATGAGCTGGTTGGGCTAAAATGAAAGGTTTTGGGTTTTGGCCAGCCAAAGT
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 TCTGAAAACATCCAGGATATCACGGTCAATGTTACCGACTGCACGTGAAGCGCAGCATGGGCTGGAAGA
 AGGCTGTGACGAGCTGGAAGTGCATCAGCGCTTCTCCGTGAAGGAAGGTTCTGGAAGTCTAAGAATGA
 GGACCGAGGTGAGGAAGAGGCAGAATCCAGTATCTCTCCACCAGTAACGAGCAGCTGAAGGTCACTCAA
 GAGCCAAGAGCAAAGAAAGGACGACGTAATCAGAGTGTGGAGCCAAAAAGGAAGAACCAGCCAGAAA
 CGGAAGCAGTGAAGTCCAGCCAGGAAATCCCAACAATGCCTCAGCCAATGAGAGGGTGTGAGTCAAC
 CCAGACCAAGAAGTTAAGTGCCTTCCCAACGAATGCTGCATCGAAGCACTCAGACGACGAGCGACGGC
 GTCTGTGACAGCATGTGCCACGCAAGTACACCAAAATTTTTAATGACTTTAAAGACAGGATGAAGTCGG
 ACCACAAGCGGAAACAGAGAGAGTGGTCCGTGAAGCGCTGAAAAAGTTGCGTTCTGAAATGGAAGAAGA
 AAAAAGACAGGCCGTGAACAAAGCTGTGGCCAGCTGCAGGGCGACATGGACAGAAAGGGTAAGCAGCTG
 AAGGAGAAGTGAAGGAAGAGTTTGTAGAGGAGATCAAGAAGCTAGCGGCGCAGCACAAGCAGCTCATT
 CCCAGACCAAGAAGAAGCAGTGGTGTACAACGTGAGGAGGAGGCCATGTACCACTGCTGCTGGAACAC
 GTCCTACTGCTCCATCAAGTCCAGCAGGAGCACTGGCACGCAGAGCACAAGCGCACCTGCCCGCGAAG
 AGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208886 representing BC058999
 Red=Cloning site Green=Tags(s)

MSRVHGMHPKETTRQLSLAVKDGLIVETLTVGCKGSKAGIEQEGYWLPGDEIDWETETHDWCYFECHLPG
 EVLIDCLCFRVYHSHKLSDEFRLRDSSSHWQCPVCRSIIKKHNSNKQEMGTYLRFIVSRMKERAIDLNKKG
 KDSKHPMYRRLVHSAVDVPTIQEKVNEGKYRSYEEFKADAQLLLHNTVIFYGDSEQADIARMLYKDTCHE
 LDELQLCKNCFYLSNARPDNWFYCIPNHELWAKMKGFVWPAKVMQKEDNQVDVRFVGHHRQAWIP
 SENIQDITVNVHRLHVKRSMGWKKACDELELHQRFLREGRFWKSKNEDRGEAAESSISSTSNEQLKVTQ
 EPRAKKGRRNQSVPEPKKEPEPEAVSSSQEIPMPQPIERVSVSTQTKKLSASSPRMLHRSTQTTSDG
 VCQSMCHDKYTKIFNDFKDRMKS DHKRE TERVVREALEKLRSEMEEEKRQAVNKAVASLQGDMDRKGKQL
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 R

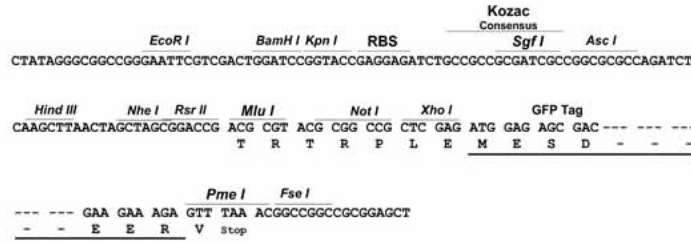
TRTRPLE – GFP Tag – V

Restriction Sites:

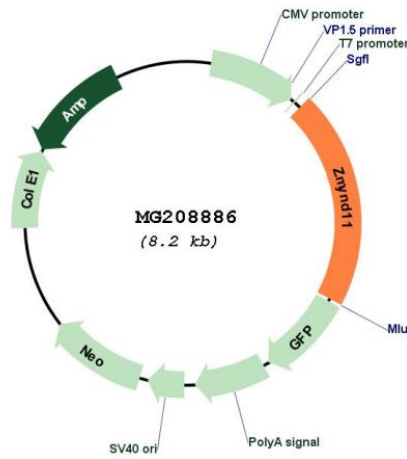
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC058999
 ORF Size: 1685 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:	<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:	BC058999 , AAH58999
RefSeq Size:	4107 bp
RefSeq ORF:	1685 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]