

Product datasheet for **MR208906**

Zmynd11 (BC022945) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zmynd11 (BC022945) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zmynd11
Synonyms:	2210402G22Rik; BS69
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR208906 representing BC022945
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTC**CCGAGTCCACGGTATGCATCCCAAAGAGACCACCCGCAGCTGAGCTTAGCTGTGAAAGATGGTC**
 TTATTGTCGAAACTCTAACAGTGGGCTGCAAAGGTTCAAAGCTGGTATTGAACAGGAAGGATATTGGTT
 ACCAGGAGATGAGATTGACTGGGAAACAGAAACTCATGACTGGTATTGTTTTGAATGCCATTTGCCTGGA
 GAGGTGTTGATATGTGACCTGTGTTTTCGTGTGTATCATTCCAAGTGTGTTGTCTGATGAGTTCAGGCTTA
 GAGACAGCAGTAGTCACTGGCAGTGGCCAGTTGCAGGAGCATTAAAGAAGAAGCACTCTAACAGCAGGA
 AATGGGCACCTACTTGAGGTTTCATCGTCTCCCGCATGAAGGAGCGGGCTATAGACCTTAATAAGAAAGGA
 AAGGACAGTAAGCATCCTATGTACCGGAGGCTGGTCCACTCAGCTGTTGACGTCCCTACCATAACAAGAGA
 AGGTGAATGAGGGGAAGTACCGGAGTTACGAGGAGTTCAGGCTGACGCACAGCTGCTTCTCCACAACAC
 AGTGATCTTCTATGGAGCAGACAGTGAAGCAAGCGGACATTGCACGGATGTTATATAAAGACACGTGTCAC
 GAGCTGGACGAGCTGCAGCTTTGCAAGAACTGCTTCTATCTGTCAAACGCACGGCCCGACAACCTGGTTCT
 GCTACCCTTGATACCTAATCATGAGCTGGTTGGGCTAAAATGAAAGGTTTTGGGTTTTGGCCAGCCAA
 AGTCATGCAGAAAGAAGACAATCAAGTGGATGTTTCGCTTCTTTGGCCATCACCACAGAGAGCCTGGATT
 CCTTCTGAAAACATCCAGGATATCACGGTCAATGTTCCACCGACTGCACGTGAAGCGCAGCATGGGCTGGA
 AGAAGGCTGTGACGAGCTGAACTGCATCAGCGCTTCTCCGTGAAGGAAGGTTCTGGAAGTCTAAGAA
 TGAGGACCGAGGTGAGGAAGAGGAGCAATCCAGTATCTCCTCCACAGTAACGAGCAGCTGAAGGTCCT
 CAAGGCCAAGAGCAAAAGAAAGGACGACGTAATCAGAGTGTGGAGCCAAAAAGGAAGAACCCGAGCCAG
 AAACGGAAAGCAGTAAGTCCAGCCAGGAAATCCCAACAATGCCTCAGCCAATTGAGAGGGTGTCAAGTGC
 AACCCAGACCAAGAAGTTAAGTGCCTTCTCCACGAAATGCTGCATCGAAGCACTCAGACGACGAGCGAC
 GCGTCTGTGACGAGCATGTGCCACGACAAGTACACCAAAATTTTTAATGACTTTAAAGACAGGATGAAGT
 CGGACCACAAGCGTGAACAGAGAGAGTGGTCCGTGAAGCGCTGGAAAAGTTGCGTTCTGAAATGGAAGA
 AGAAAAAGACAAGCCGTAACAAAGCTGTGGCCAACTGCAGGGCGAGATGGACAGAAAGTGAAGCAG
 GTGAAGGAAAAGTGAAGGAAGAATTTGTAGAGGAGATCAAGAAGCTAGCGGCGCAGCACAAGCAGCTCA
 TTTCTCAGACCAAGAAGAAGCAGTGGTGTACAACGTGAGGAGGAGGCCATGTACCCTGCTGCTGGAA
 CACGTCTACTGCTCCATCAAGTCCAGCAAGAGCACTGGCACGCAGAGCACAAGCGCACCTGCCCGCG
 AAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208906 representing BC022945
 Red=Cloning site Green=Tags(s)

MSRVHGMHPKETTRQLSLAVKDGLIVETLTVGCKGSKAGIEQEGYWLPGDEIDWETETHDWCYFECHLPG
 EVLICDLCFRVYHSKCLSDREFLRDSSSHWQCPVCRSIIKKKHSNKQEMGTYLRFIVSRMKERAIDLNKKG
 KDSKHPMYRRLVHSAVDVPTIQEKVNEGKYRSYEEFKADAQLLLHNTVIFYGADSEQADIARMLYKDTCH
 ELDELQLCKNCFYLSNARPDNWFYCIPNHEL VWAKMKGF GFWPAKVMQKEDNQVDVRFHGHQRAWI
 PSENIQDITVNVHRLHVKRSMGWKACDELELHQRFLREGRFWKSKNEDRGEEEAESSISSTSNEQLKVT
 QEPRAKKGRNQSVPEPKKEPEPETEA VSSSQEIPTMPQPIERVS VSTQTKKL SASSPRLHRSTQTTS
 GVCQSMCHDKYTKIFNDFKDRMKS DHKRETERVVREALEKLRSEMEEKRVAVNKAVANLQ GEMDRKCKQ
 VKEKCKEEFVEEIKKLAQHKQLISQTKKKQWCYNCEEEAMYHCCWNTSYCSIKCQEQEHWHAEHKRTCRR
 KR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

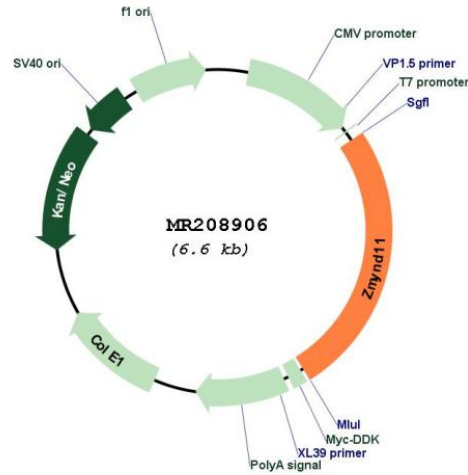
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC022945
 ORF Size: 1686 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:	BC022945.1
RefSeq Size:	3011 bp
RefSeq ORF:	1688 bp
Locus ID:	66505
Cytogenetics:	13 A1
MW:	110.3 kDa
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]