

Product datasheet for **RR208660**

Zmynd10 (NM_001004284) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zmynd10 (NM_001004284) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zmynd10
Synonyms:	MGC94352
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208660 representing NM_001004284 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGACCTGGAGCTGCTGCTGCCTGGGGAGGCTGAGGTGCTGGTGCAGGGCCTGCACAGCTTCCAGC
TTCGGGAGATGGGATCTGAAGGGTGGAGTAAGCAACATGAGAACCTGGAGAAGTTGAACATGCAAGCCAT
CCTCGATGCAACTGTCAGCCAGGCTGAGCCCATCCAGAACTGTTGGTCAACCCACGGGAAGATCCCAACG
CTGGTGGAGGAGCTGATTGCTGTGGAGATGTGGAACAGAAAGGTGTTCCCGGTGCTGTGCCGGCTGGAGG
ACTTCAAGCCCCAGAACACCTTCCCATATACATGGTGGTACATCATGAGGCCTCCATCATCAATCTCCT
AGAGACAGTATTCTCCACAAGGAAGTGTGTAATCAGCAGATGACACGGTCTTGGACCTAGTAGACTAC
TGCCACCACAAGCTGATACTGCTAGTGGCTCGGAAAGGCGGTGGTACCTGTCTGAGGAAGAACGGTTCC
AGGACAGTACCCCTATGCAAGAGCTGCAGAAGCAGGCAGAGATGATGGAGTTTGAGATCTCCCTGAAAGC
CCTCTCCGTGCTTCGATACATCACAGATTGCATGGATAGCCTCTCCCTGAGCACACTGAACCGAATGCTT
ACCACACAACTTGCCTGCTCCTGGTGAAGTCTAGAGCACAGTCCCTGGAGCCGGCGGAAGGAG
GCAAGCTGCAGCATTTTGAGAGTGGCCGATGGCAGACAGTGGCCCCCTCAGAGCATCAAAAGCTGAACAA
ACTGGATGGGCAAGTATGGATCGCCTTGTACAATCTACTGCTCAGTCTGAGGCCCGAACCCGTTACTGC
CTTACAAACTTTGCCAAGGGACAGCTGCTTAAGCTTCAGGCCTTCTCACCAGACACTGCTTGACCAGC
TGCCCAACCTTGCTGATCTGAAGAGTTTCTGGCCACCTGGCCCTGGTTGAAACTCAACCCCTAAGAA
GGACCTAGTGTAGAACAGATCCAGAAATCTGGGATCGGCTGGAGCGAGAGAACAAGGCAAGTGGCAG
GCTATCGCAAGCACCAGCTTCAGCACGTATTAGCCTCTCCGAGAAGGATCTTCGCCAACAAGCACAGA
GGTGGGCTGAAACCTACAGGCTGGACGCTCTAGAGGCTGTAGCTCCGGAGAGGCCCGCTGTGCCTACTG
CAGTGGCAGGCCCTCAAGCGCTGCTCCAGATGCCAGAAAGTGTGGTATTGCTGCAGGGAGTGTCAAGTC
AAGCACTGGGAGAAGCACGGAAGACGTGTGTTCTAGCAGCCAGGGTGACAGAGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208660 representing NM_001004284
 Red=Cloning site Green=Tags(s)

MGDLELLLPGAEVLVQGLHSFQLREMGSEGWSKQHENLEKLNMQAILDATVVSQAEPQELLVTHGKIPT
 LVEELIIVEMWKQKVPVLCRLDFKPQNTFPIYVVHHEASIIINLLETVFFHKEVCESADDTVLDLVDY
 CHRKLILLVARKGGDLSEEERFQDSTPMQELQKQAEMMEFEISLKALSVLRYITDCMDSLSTLNRML
 TTHNLPCLLVELLEHSWRSRREGGKLQHFESGRWQTVAPSEHQKLNKLDGQVWIALYNLLLSPEARTRYC
 LTNFAKGLLKLQAFLLDTLLDQLPNLADLKSFLAHLALVETQPPKDLVLEQIPEIWDRLERENKQKQWQ
 AIAKHQLQHVFSLEKDLRQQAQRWAETYRLDVLEAVAPERPRCAICYSAEASKRCSRCQKVWYCCRECQV
 KHWEKHGKTCVLAAGDRAK

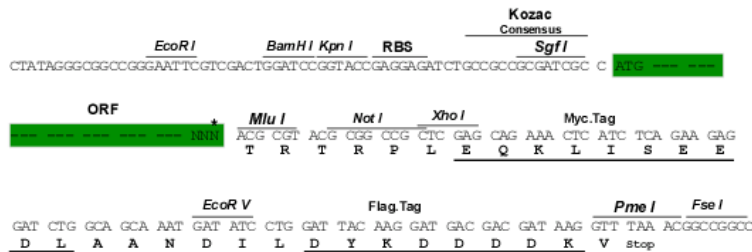
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

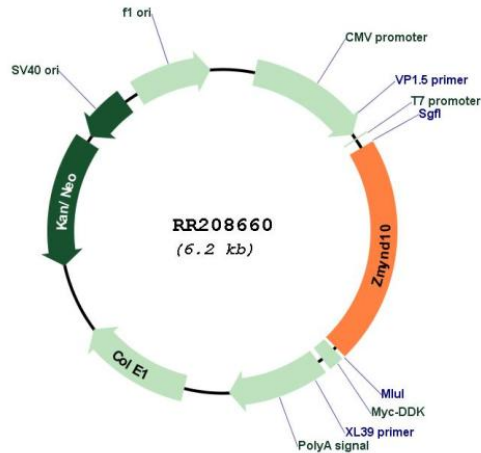
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001004284

ORF Size:	1320 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:	NM_001004284.1 , NP_001004284.1
RefSeq Size:	1754 bp
RefSeq ORF:	1323 bp
Locus ID:	363139
UniProt ID:	Q6AXZ5
Cytogenetics:	8q32
MW:	50.7 kDa
Gene Summary:	Plays a role in axonemal structure organization and motility. Involved in axonemal pre-assembly of inner and outer dynein arms (IDA and ODA, respectively) for proper axoneme building for cilia motility (By similarity). May act by indirectly regulating transcription of dynein proteins (By similarity).[UniProtKB/Swiss-Prot Function]