

Product datasheet for **MG207003**

Zmynd10 (NM_053253) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zmynd10 (NM_053253) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zmynd10
Synonyms:	Blu
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG207003 representing NM_053253 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGACCTGGAAGTCTGCTGCCTGGGGAGGCTGAGGTGCTGGTGCGGGGCTGCGCAGTTCCAGC
TTCGGGAGATGGGCTCTGAAGGGTGAATAAGCAGCATGAGAGCCTGGAGAAGCTGAACATGCAAGCCAT
CCTTGATGCAACTATCAGCCAGGCTGAGCCATCCAGGAAGTCTAATCAACCATGGGAAGATCCCAACG
CTGGTGGAGGAGCTGATTGCGGTGGAGATGTGAAACAGAAGTTTTCCCTGTGCTGTGCCGGCTGGAGG
ACTTCAAGCCCCAGAATACCTTCCCATATACATGGTGGTACACCATGAGGCCTCCATCATCAATCTCCT
AGAGACAGTGTTCTTCCACAAGGAGGTGTGTGAGTCAGCTGATGACAAGGCTTTGGACCTAGTAGACTAT
TGCCACCACAAGCTGATACTGCTAGTGGCCCGAAAGGCGGTGGTACCTGTCTGAAGAAGAACAGTTCC
AGGACAGTACCCCTATGCAAGAGCTGCAAAAGCAGGCGGAGATGATGGAATTTGAGATATCCCTGAAAGC
CCTCTCGGTGCTTCGCTACATCAGACTGCGTGGATAGCCTTTCCCTGAGCACACTGAACCGCATGCTC
AGGACTCACAAGTGGCCCTGCCTCTTGGTGAAGTCTGGAGCACAGTCCCTGGAGCCGGCGGGTAGGAG
GCAAGCTGCAGCATTTTGAGAGTGGCCGATGGCAGACGGTGGCCCCCTCAGAGCAGCAAAAGCTGAATAA
ACTGGATGGGCAAGTATGGATCGCCCTGTACAATCTACTGCTCAGCCCTGAGGCCGAGCCCGTTACTGC
CTTACAAGCTTTGCAAGGGACAGCTGCTTAAGCTTCAGGCCCTCCTCACTGACACACTACTCGACCAGT
TGCCCAATCTTGCCGATCTGAAGGGTTTTCTGGCCACCTGTCCCTGGCTGAAACCCAGCCCCCTAAGAA
GGACCTAGTGTTAGAACAGATCCAGAAATCTGGGATCGCCTGGAGAGAGAGAACAAGGAAATGGCAG
GCTATCGCAAGCACCAGCTTCAGCACGTATTCAGCCTCTCGGAGAAGGATCTTCGTCAACAAGCACAGA
GGTGGGCTGAAACCTACAGGCTGGATGTCTAGAGGCAGTAGCTCCGGAGAGGCCCGCTGCGGCTACTG
CAACGCAGAGGCCTCAAGCGCTGCTCCAGATGCCAGAATGTGTGGTATTGCTGCAGGGAGTGTCAAGTC
AAGCACTGGGAGAAGCACGAAAGACATGTGTTCTAGCAGCCCAAGGTGACAGAGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207003 representing NM_053253
 Red=Cloning site Green=Tags(s)

MGDLELLLPGAEVLVRGLRSFQLREMGSEGWNKQHESLEKLNMQAILDATISQAETIQELLINHGKIPT
 LVEELIIVEMWKQKVPVLCRLDFKQNTFFIYVVHHEASIIINLLETVFFHKEVCESADKVLVDLVDY
 CHRKLILLVARKGGGDLSEEEQFDSTPMQELQKQAEEMFEISLKALSVLRYITDCVDSLSTLNRMML
 RTHNLPCLLVELLEHSPWSRRVGGKLRHFESGRWQTVAPSEQQKLNKLDGQVWIALYNLLLSPEARARYC
 LTSFAKQQLLKLQAFLLDTLLDQLPNLADLKGFLAHLSLAETQPPKDLVLEQIPEIWDRLERENKQKQWQ
 AIAKHQLQHVFLSEKDLRQQAQRWAETRYRLDVLEAVAPERPRCGYCNAEASKRCSRCQNVWYCCRECCQV
 KHWEKHGKTCVLAAGQDRAK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053253

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_053253.4](#)

RefSeq Size: 1784 bp

RefSeq ORF: 1323 bp

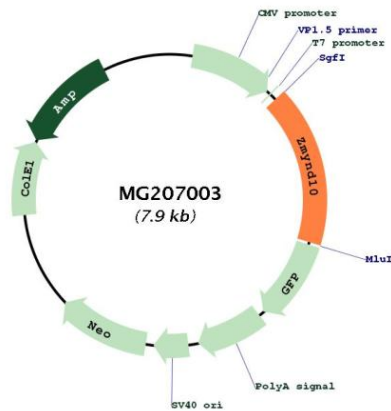
Locus ID: 114602

UniProt ID: [Q99ML0](#)

Cytogenetics: 9 F1

Gene Summary: Plays a role in axonemal structure organization and motility (PubMed:29601588). Involved in axonemal pre-assembly of inner and outer dynein arms (IDA and ODA, respectively) for proper axoneme building for cilia motility (PubMed:29601588). May act by indirectly regulating transcription of dynein proteins (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207003