

Product datasheet for **MR231051**

Fign (NM_001267846) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fign (NM_001267846) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fign
Synonyms:	fi; fidget
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR231051 representing NM_001267846
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGTGGACGCCGGAGCATGCCAGTGGCCAGAACAGCACTTTGACATCACCTCGACCACTCGGTCTC
 CCGCCACAAAGTTGAAGCCTATAGAGGTCATTTACAGCGCACCTACCAGTATGCCTGGGCGAATGATGA
 CATATCTGCTCTGACTGCGTCCAACCTTCTGAAAAATATGCAGAGAAAGTATTCTGGCATTGGAAGGT
 CCCGTAGACCGACCTGTACTCAGCAATTATCAGACACACCATCAGGACTCGTGAATGGTCGGAAAAATG
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Protein Sequence: >MR231051 representing NM_001267846
 Red=Cloning site Green=Tags(s)

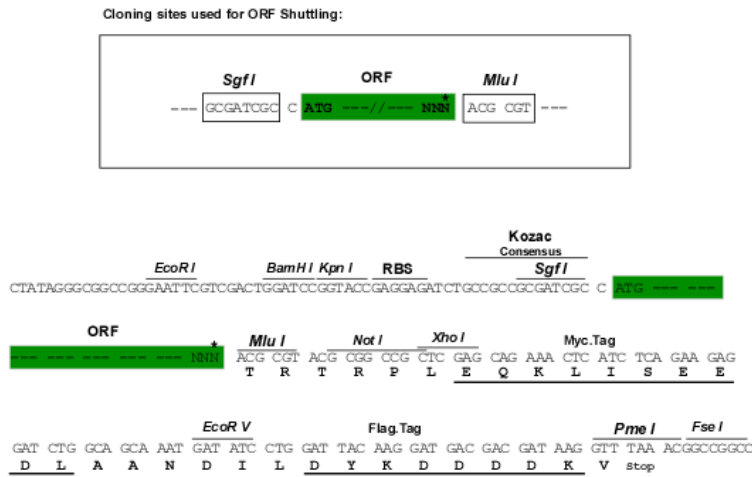
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 NGFDRNAETSSLAFKPTKQLMPSEQQRKFSSQSSRALTPPSYSTAKNSLGSRSSSEFGKYTSPVMSEHG
 DDHRQLLAHQIQQGLRAATSSNHVSDEQLKNTDTHLIDLVTNEIITQGPPVDWSDIAGLDLVKAVIKEE
 VLWPVLRSDAFSGLTALPRSILLFGRGTGKTLGRCIASQLGATFFKIAGSGLVAKWIGEAEKIIHASF
 LVARCRQPSVIFVSDIDMLLSSQVSEHSPVSRMRTEFLMQLDVTLSAEDQIVVICATSKPEEIDESLR
 RYFMKRLLIPLDSTARHQIIVQLLTQHNYCLNDKEFALLVQRTEGFGSLDVAHLQEAAVGPLHAMPAT
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

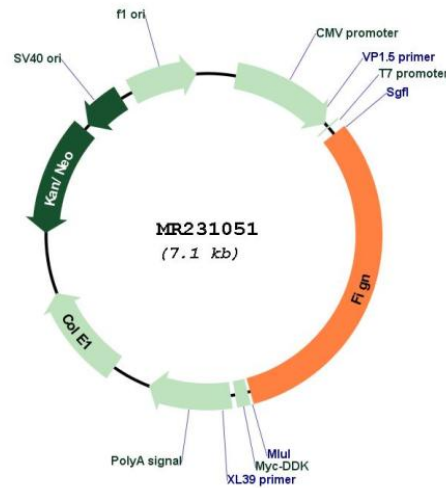
Restriction Sites:

SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001267846

ORF Size: 2244 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.

RefSeq: [NM_001267846.1](#), [NP_001254775.1](#)

RefSeq Size: 9817 bp

RefSeq ORF: 2247 bp

Locus ID: 60344

UniProt ID: [Q9ERZ6](#)

Cytogenetics: 2 37.19 cM

MW: 81.4 kDa

Gene Summary: ATP-dependent microtubule severing protein. Severs microtubules along their length and depolymerizes their ends, primarily the minus-end, suppressing microtubule growth from and attachment to centrosomes. Microtubule severing may promote rapid reorganization of cellular microtubule arrays and the release of microtubules from the centrosome following nucleation. Microtubule release from the mitotic spindle poles may allow depolymerization of the microtubule end proximal to the spindle pole, leading to poleward microtubule flux and poleward motion of chromosome (By similarity).[UniProtKB/Swiss-Prot Function]