

Product datasheet for **MR212262**

Fign (NM_021716) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fign (NM_021716) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fign
Synonyms:	fi; fidget
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR212262 representing NM_021716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCAGTAGCACCAGTGTATGGCTGAAGATGCAGTGGACGCCGGAGCATGCCAGTGGCCAGAAC
 AGCACTTTGACATCACCTCGACCACTCGGTCTCCCGCCACAAAGTTGAAGCCTATAGAGGTCATTTACA
 GCGCACCTACCAGTATGCCTGGGCGAATGATGACATATCTGCTCTGACTGCGTCCAACTTCTGAAAAA
 TATGCAGAGAAGTATTCTGGCATTGGAAGTCCCGTAGACCGACCTGTACTCAGCAATTATTCAGACA
 CACCATCAGGACTCGTGAATGGTCGAAAAATGATAGCGAACCTGGCAGCCTTCTTGAATTCAGAAGC
 CGTTTATCCTATGAACTGTGTCCCGGATGTCATCACTGCCAGCAAAGCTGGTGTGAGTCCAGCCCTCCT
 CCAGTAGAGCTCTCGCAAGTATAGGGAGCTCCCTGGGGTGGCCAGCAACCTGACAGAGCCAAGTTACT
 CAAGTAGTACCTGTGGAAGCCACACAGTACCTAGTCTTTCATGCGGGGCTCCCATCTCAGGAATATGCTCC
 GGGATACAACGGCTCATATTTGCATTCTACCTACAGCAGCCAGGCCACACCTGCATTCTTCGCCTCAT
 CCGTCCCCGTTGCATAGTTCTGGGCTTTTGCAGCCACCACCCCTCCTCCTCCCCACCAGCCCTGGTCC
 CAGGCTACAACGGGACTTCCAATCTCTCCAGTTACAGTTATCCCTCTGCTAGCTATCCTCCTCAGACTGC
 CGTGGGGTCTGGGTACAGCCCTGGCGGAGCACCCCTCCTCCTCAGCATACCTGCCTTCAGGAATTCCT
 GCTCCCACCCCTCTGCCCCACTACCGTTCCTGGCTACACCTACCAAGTTCATGGTTTGACACCCATTG
 CACCCTCTGCTCTGACCAACAATTCAGCAAGTTCTCTCAAAGGAAAGCTTTCTATATGGCAGGGCAAGG
 AGACATGGACTCCAGTTACGAAATTACAGCTATGGCCACAGAGATCGACACAGAGTCTATGTACCGA
 ATGCCCCACAACAGCATTCAAACCTCGAATCGGGGGAATGGCTTTGACAGAAATGCTGAAACATCATCCT
 TAGCATTTAAGCCAACAAGCAGCTGATGCCCTCTGAGCAGCAAAGGAAATTCAGCAGCCAGTCCAGTAG
 GGCTCTGACCCCTCCTTCTATAGTACTGCTAAAATTCATTGGGATCAAGGTCCAGTGAATCCTTTGGG
 AAGTATACGTCGCCAGTATGAGTGAGCACGGAGACGACCATCGGCAGCTCCTCGCTCATCCAATACAAG
 GTCCCGGACTCCGTGAGCTACCTCATCAACCACTCTGTGGACGAGCAACTGAAGAATACTGACACACA
 CCTCATTGACCTGGTCACCAATGAGATCATCACCACAGGACCTCCTGTGGACTGGAGCGACATAGCTGGT
 CTTGACCTGGTGAAGGCGGTTATTAAGGAGGAGGTTTTGTGGCCAGTGTGAGGTCAGATGCATTCAGTG
 GGCTGACCGCCTTACCTAGAAGCATCCTTCTCTCGGACCTCGGGGTACAGGCAAACACTTTTGGGCAG
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 GGAGAAGCGGAGAAAATCATCCACGCCTTTTTCTGTGGCCAGGTGTGCCAGCCCTCGGTGATTTTTG
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 CGAATTTCTGATGCAGCTGGACACTGTACTGACTTCGGCTGAGGACCAAATCGTAGTCATTTGTGCCACC
 AGTAAACCAGAAGAAATAGATGAATCTCTCGGAGGTAATTCATGAAAAGACTTTTAAATCCCACTTCCTG
 ACAGCACAGCGGACCAAGATAATAGTACAGCTGCTCACACAGCACAATTAAGTGTCTCAATGACAAGGA
 GTTTGCACTGCTGTCCAGCGCACAGAAGGTTTTCTGGACTAGACGTGGCTCATTTGTGTGAGGAAGCA
 GCAGTGGGACCTCTCCATGCTATGCCAGCTACAGACCTTCAGCCATTATGCCAGCCAGTTAAGGCCCG
 TTACATATCAAGACTTTGAAAATGCTTTCTGCAAGATTCAGCCTAGCATATCTCAAAAAGAGCTTGATAT
 GTATGTTGAATGGAACAAAATGTTTGGTTCAGTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR212262 representing NM_021716
 Red=Cloning site Green=Tags(s)

MISSTSVYGLKMQWTPHAQWPEQHFDITSTTRSPAHKVEAYRGHLQRTYQYAWANDDISALTASNLLKK
 YAEKYSGILEGPVDRPVL SNYS DTPSGL VNGRKN DSEP WQPSLNSEAVYPMNCVPDVITASKAGVSSALP
 PVDVSASIGSSPGVASNLTEPSYSSSTCGSHTVPSLHAGLPSQEYAPGYNGSYLHSTYSSQATPALPSPH
 PSPLHSSGLLQPPPPPPPPALVPGYNGT SNLSSYSYPSASYPPTAVGSGYSPGGAPPPPSAYLPSGIP
 APTPLPPTTVPGYTYQGHGLTPIAPSALTNNSASSLKRKAFYMGQGDMDSSYGNYSYQQRSTQSPMYR
 MPDNSISNSNRGNDFRNAETSSLAFKPTKQLMPSEQQRKFSSQSSRALTPPSYSTAKNSLGSRSSESG
 KYTSPVMSEHGDDHRQLLAHPIQGPGLRAATSSNHSVDEQLKNTDTHLIDLVTNEIITQGPVDWSDIAG
 LDLVKAIVKEEVLWVLRSDAFSGLTALPRSILLFGRGTGKTLGRCIASQLGATFFKIAGSGLVAKWI
 GEAEKIIHASFLVARCRQPSVIFVSDIDMLSSQVSEEHPVSRMRTEFLMQLDVLTS AEDQIVVICAT
 SKPEEIDESLRRYFMKRLLIPLPDSTARHQIIVQLLTQHNYCLNDKEFALLVQRTEGFSGLDVAHLQCEA
 AVGPLHAMPATDL SAIMPSQLRPVTYQDFENAFCKIQPSISQKELDMYVEWNKMF GCSQ

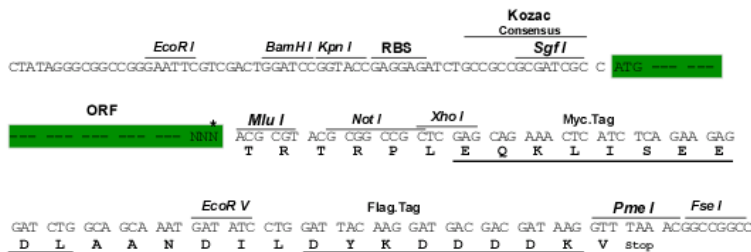
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9095_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

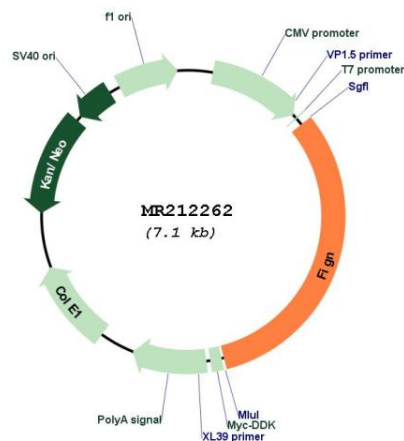
ACCN: NM_021716

ORF Size: 2277 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:	<u>NM_021716.5</u> , <u>NP_068362.1</u>
RefSeq Size:	9759 bp
RefSeq ORF:	2280 bp
Locus ID:	60344
UniProt ID:	<u>Q9ERZ6</u>
Cytogenetics:	2 37.19 cM
MW:	82.1 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]

Product images:


Circular map for MR212262