

Product datasheet for **MC228841**

Fign (NM_001267847) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fign (NM_001267847) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fign
Synonyms:	fi; fidget
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228841 representing NM_001267847
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGTGGACGCCGGAGCATGCCAGTGGCCAGAACAGCACTTTGACATCACCTCGACCACTCGGTCTC
 CCGCCACAAAGTTGAAGCCTATAGAGGTCATTTACAGCGCACCTACCAGTATGCCTGGGCGAATGATGA
 CATATCTGCTCTGACTGCGTCCAACCTTCTGAAAAAATATGCAGAGAAAGTATTCTGGCATTGGAAGGT
 CCCGTAGACCGACCTGTACTCAGCAATTATCAGACACACCATCAGGACTCGTGAATGGTCGGAAAAATG
 ATAGCGAACCCCTGGCAGCCTTCCCTTGAATTCAGAAGCCGTTTATCCTATGAACTGTGTCCCGGATGCAT
 CACTGCCAGCAAAGCTGGTGTGAGCTCAGCCCTCCCTCCAGTAGACGTCTCGGCAAGTATAGGGAGCTCC
 CCTGGGGTGGCCAGAACCTGACAGAGCCAAGTACTCAAGTAGTACCTGTGGAAGCCACACAGTACCTA
 GTCTTCATGCGGGCTCCATCTCAGGAATATGCTCCGGGATACAACGGCTCATATTTGCATTCTACCTA
 CAGCAGCCAGGCCACACCTGCACCTTCTTCGCCTCATCCGTCCCGTTGCATAGTTCTGGGCTTTTGCAG
 CCACCACCCCTCTCTCCCCACCAGCCCTGGTCCCAGGCTACAACGGGACTTCCAATCTCTCCAGTT
 ACAGTTATCCCTCTGCTAGCTATCCTCCTCAGACTGCCGTGGGGTCTGGGTACAGCCCTGGCGGAGCACC
 CCCTCCTCCTTACGATACCTGCCTTACAGGAATTCCTGCTCCCACCCCTCTGCCCCCACTACCCTTCT
 GGCTACACCTACCAAGGTCATGGTTTGACACCCATTGCACCCCTGCTCTGACCAACAATTCAGCAAGTT
 CTCTCAAAGGAAAGCTTTCTATATGGCAGGGCAAGGAGACATGGACTCCAGTTACGGAATACAGCTA
 TGGCCAACAGAGATCGACACAGAGTCTATGTACCGAATGCCGACAACAGCATTCAAACCTCGAATCGG
 GGAATGGCTTTGACAGAAATGCTGAAACATCATCCTTAGCATTAAAGCCAACAAAGCAGCTGATGCCCT
 CTGAGCAGCAAAGGAAATTCAGCAGCCAGTCCAGTAGGGCTCTGACCCCTCTTCTATAGTACTGCTAA
 AAATTCATTGGGATCAAGGTCCAGTGAATCCTTTGGGAAGTATACGTCCGCAAGTCATGAGTGAGCAGGA
 GACGACCATCGGCAGTCTCGTCAATACAAGGTCCCGGACTCCGTGCAGCTACCTCATCCAACC
 ACTCTGTGGACGAGCAACTGAAGAATACTGACACACACCTCATTGACCTGGTCACCAATGAGATCATCAC
 CCAAGGACCTCCTGTGGACTGGAGCGACATAGCTGGTCTTACCTGAGCTGGTGAAGGCGGTTATTAAGGAGGAG
 GTTTTGTGGCCAGTGTGAGGTGAGTGCATTGAGTGGGCTGACCGCCTTACCTAGAAGCATCCTTCTCT
 TCGGACCTCGGGTACAGGCAAAACACTTTTGGGCAGATGCATAGCTAGTACAGTAGGGGCCACGTTTTT
 CAAAATGCGGGTCCGGACTCGTTGCAAAGTGGATAGGAGAAGCGGAGAAAATCATCCACGCTCTTTT
 CTTGTGGCCAGGTGTCCGAGCCCTCGGTGATTTTGTAGTACATTGACATGCTTCTCTCTCTCAAG
 TGAGCGAGGAACACAGTCCAGTCAAGTCCGATGAGAACCGAATTTCTGATGCAGCTGGACACTGACTGAC
 TTCGGCTGAGGACCAATCGTAGTCATTTGTGCCACCAGTAAACCAGAAGAAATAGATGAATCTCTTCGG
 AGGTACTTCATGAAAAGACTTTTAAATCCCACTTCTGACAGCACAGCGAGGCACCAGATAATAGTACAGC
 TGCTCACACAGCACAATTACTGTCTCAATGACAAGGAGTTTGCAGTGTGTCCAGCGCACAGAAGGCTT
 TTCTGGACTAGACGTGGCTCATTTGTGTGAGGAAGCAGCAGTGGGACCTCTCCATGCTATGCCAGCTACA
 GACCTTTCAGCCATTATGCCAGCCAGTTAAGGCCCGTTACATATCAAGACTTTGAAAATGCTTTCTGCA
 AGATTCAGCCTAGCATATCTCAAAAAGAGCTTGATATGTATGTTGAATGGAACAAAATGTTTGGTTGCAG
 TCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001267847
Insert Size: 2247 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001267847.1, NP_001254776.1</u>
RefSeq Size:	9798 bp
RefSeq ORF:	2247 bp
Locus ID:	60344
UniProt ID:	<u>Q9ERZ6</u>
Cytogenetics:	2 37.19 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) has an alternate segment in the 5' coding region, which results in a downstream in-frame start codon, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>