

Product datasheet for **MG212262**

Fign (NM_021716) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fign (NM_021716) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fign
Synonyms:	fi; fidget
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG212262 representing NM_021716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATCAGTAGCACCAGTGTATGGCTTGAAGATGCAGTGGACGCCGGAGCATGCCAGTGGCCAGAAC
 AGCACTTTGACATCACCTCGACCACTCGGTCTCCCGCCACAAAGTTGAAGCCTATAGAGGTCATTTACA
 GCGCACCTACCAGTATGCCTGGGCGAATGATGACATATCTGCTCTGACTGCGTCCAACTTCTGAAAAA
 TATGCAGAGAAGTATTCTGGCATTGGAAGTCCCGTAGACCGACCTGTACTCAGCAATTATTCAGACA
 CACCATCAGGACTCGTGAATGGTCGAAAAATGATAGCGAACCTGGCAGCCTTCTTGAATTCAGAAGC
 CGTTTATCCTATGAACTGTGCCGGATGTCATCACTGCCAGCAAAGCTGGTGTGAGTCCAGCCCTCCCT
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 CAAGTAGTACCTGTGGAAGCCACACAGTACCTAGTCTTCATGCGGGCTCCCATCTCAGGAATATGCTCC
 GGGATACAACGGCTCATATTTGCATTCTACCTACAGCAGCCAGGCCACACCTGCATTCTTCGCCTCAT
 CCGTCCCCGTTGCATAGTTCTGGGCTTTTGCAGCCACCACCCCTCCTCCTCCCCACCAGCCCTGGTCC
 CAGGCTACAACGGGACTTCCAATCTCTCCAGTTACAGTTATCCCTCTGCTAGCTATCCTCCTCAGACTGC
 CGTGGGGTCTGGGTACAGCCCTGGCGGAGCACCCCTCCTCCTCAGCATACCTGCCTTCAGGAATTCCT
 GCTCCCACCCCTCTGCCCCACTACCGTTCCTGGCTACACCTACCAAGTTCATGGTTTGACACCCATTG
 CACCCTCTGCTCTGACCAACAATTCAGCAAGTTCTCTCAAAGGAAAGCTTTCTATATGGCAGGGCAAGG
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 ATGCCCCACAACAGCATTCAAACCTCGAATCGGGGAAATGGCTTTGACAGAAATGCTGAAACATCATCT
 TAGCATTTAAGCCAACAAGCAGCTGATGCCCTCTGAGCAGCAAAGGAAATTCAGCAGCCAGTCCAGTAG
 GGCTCTGACCCCTCCTTCTATAGTACTGCTAAAATTCATTGGGATCAAGGTCCAGTGAATCCTTTGGG
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 GTCCCGGACTCCGTGAGCTACCTCATCAACCACTCTGTGGACGAGCAACTGAAGAATACTGACACACA
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 GGAGAAGCGGAGAAAATCATCCACGCCTTTTTCTGTGGCCAGGTGTGCCAGCCCTCGGTGATTTTTG
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 CGAATTTCTGATGCAGCTGGACACTGTACTGACTTCGGCTGAGGACCAAATCGTAGTCATTTGTGCCACC
 AGTAAACCAGAAGAAATAGATGAATCTCTCGGAGGTAATCATGAAAAGACTTTTAAATCCCACTTCCTG
 ACAGCACAGCGGACCAAGATAATAGTACAGCTGCTCACACAGCACAATTAAGTGTCTCAATGACAAGGA
 GTTTGCACTGCTGTCCAGCGCACAGAAGGTTTTCTGGACTAGACGTGGCTCATTTGTGTGAGGAAGCA
 GCAGTGGACCTCTCCATGCTATGCCAGCTACAGACCTTCAGCCATTATGCCAGCCAGTTAAGGCCCG
 TTACATATCAAGACTTTGAAAATGCTTTCTGCAAGATTCAGCCTAGCATATCTCAAAAAGAGCTTGATAT
 GTATGTTGAATGGAACAAAATGTTTGGTTCAGTCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG212262 representing NM_021716
Red=Cloning site Green=Tags(s)

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MISSTSVYGLKMQWTPEHAQWPEQHFDITSTTRSPAHKVEAYRGHLQRTYQYAWANDDISALTASNLLKK
YAEKYSGILEGPVDRPVL SNYSDTPSGLVNGRKNDSWPQSLNSEAVYPMNCVPDVITASKAGVSSALP
PVDVSASIGSSPGVASNLTEPSYSSSTCGSHTVPSLHAGLPSQEYAPGYNGSYLHSTYSSQATPALPSPH
PSPLHSSGLLQPPPPPPPPALVPGYNGTSNLSSYSYPSASYPPQTAVGSGYSPGGAPPPPSAYLPSGIP
APTPLPPTTVPGYTYQGHGLTPIAPSALTNNSASSLKRKAFYMGQGDMDSSYGNYSYGQQRSTQSPMYR
MPDNSISNSNRGNDFRNAETSSLAFLKPTKQLMPSEQQRKFSSQSSRALTPPSYSTAKNSLGRSSEFSG
KYTSPVMSEHGDDHRQLLAHPIQGPGLRAATSSNHSVDEQLKNTDTHLIDLVTNEIITQGPPVDWSDIAG
LDLVKAVIKEEVLWPVLRSDAFSGLTALPRSILLFGRGTGKTLGRCIASQLGATFFKIAAGSLVAKWI
GEAEKIIHASFLVARCRQPSVIFVSDIDMLSSQVSEEHPVSRMRTEFLMQLDVTLSAEDQIVVICAT
SKPEEIDESLRRYFMKRLLIPLPDSTARHQIIVQLLTQHNYCLNDKEFALLVQRTEGFGSLDVAHLQCEA
AVGPLHAMPATDLSAIMPSQLRPVTYQDFENAFCKIQPSISQKELDMYVEWNKMFGCSQ
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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_021716.5](#), [NP_068362.1](#)

RefSeq Size: 3875 bp

RefSeq ORF: 2280 bp

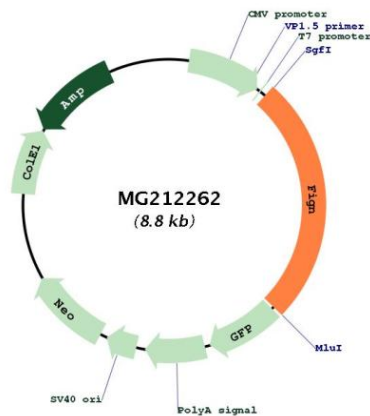
Locus ID: 60344

UniProt ID: [Q9ERZ6](#)

Cytogenetics: 2 37.19 cM

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 MG212262