

Product datasheet for **MG210016**

Figl1 (NM_021891) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Figl1 (NM_021891) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Figl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210016 representing NM_021891
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACGTCCAGCTCCATGTCTGTGGAGACGACTAGGTCTGTGCAGGTGGACGAATGGCAGAAGAATT
 ACTGTGTGGTTACATCCAGCATATGTACACCAAAGCAGAAGGCCGATGCATACCGTGCCTACTACTGCA
 TATTCAAGTATGCATATGCCAACTCCGAGATCTCTCAGGTCTTTGCTACCAACCTGTTCAAAAAGGTATA
 GAAAAACTCTGCAATTATTGATTCTGACAATGTTGTAAGTGGCTTGAATAACTATGCAGAGAGCATT
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 CAAAATGAGTTGTGTACAGGAGATGATGCAGGCTGGCAAGAAATTTGAAGAGTCTCTGTTGGAACCTGCT
 GATGCATCAGTAGTCCTGTGTAAGAGCCACCCTTTGAGGTTCTCAGCTTAGTGTGTTGTTGGAGGTT
 CTGAAGACGCTGACATATTATCCAGTTCAGGTCATGACACAGATAAGACCAAGCCATCCAGGGAGCAG
 TCTGAGATGTTCCCTTTTCAGAGTCTCGGCTGCCTAAGGAACTAATACCACTAAGACATGCCTCACC
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 AGGACACTCAAAGCTTCTCTAAAACCAGCACAGGACTAAATATGTTCTTATCTAATCTGTCTTGTGTTCC
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 TGGAGCAACATTTCCAGCATCTCTGCTTCATCGTTGACTTCTAAGTGGGTAGGTGAGGGAGAAAAATG
 GTCGTCGACTGTTTGTGTTGCCAGGTGTCAGCAGCCAGCTGTCATATTTATTGATGAAATGATTCTT
 TATTGTCTCAACGAGGAGATGGTGAACATGAATCTTCAAGAAGGATAAAAACGGAATTTTAGTTCAAGT
 AGATGGAGCAACCACATCTTCTGAAGACCGGATCTTGTGGTGGGAGCTACAAATCGGCCCAAGAGATT
 GATGAAGCTGCCCGGAGAAGATTGGTAAAAGACTTTATATTTCCCTCCCAGAAGCTTCAGCCAGGAAAC
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 AGTTTGCACGCTGCTGACATTGCTACCATAAGTCCAGATCAAGTTCGACCAATAGCTTATATTGATTTTG
 AAAATGCTTTTAAAACGTGCGACCTACTGTATCTCCAAAAGACTTGGAGCTTTATGAAAACGGAATGA
 AACATTTGGTTGTGAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210016 representing NM_021891
Red=Cloning site Green=Tags(s)

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METSSSMSVETTRSVQVDEWQKNYCVVTSSICTPKQKADAYRALLLHIQYAYANSEISQVFATNLFKRYT
EKYSAIIDSDNVVTGLNNYAESIFALAGSRQADSNKWQSGLSIDNVFKMSCVQEMMQAGKKFEESLLEPA
DASVVLCKEPTAFEVSQLSVCGGSEDADILSSSGHDTDKTQAIPGSSLRCSPFQSARLPKETNTTKTCLT
SSTSLGESATAAFHMTPLFGNTEKDTQSFPKTSTGLNMFLSNLSCVPSGCENPQERKAFNDSIDIILSN
PTLNKAPSKTEDRGRREDNSLPTFKTAKEQLWVDQKKKGHQSQHTSKSSNGVMKKSLGAGRSRGIFGKFV
PPVSNKQDGESEQHAKKHKSSRAGSAEPAHLTDDCLKNVEPRMVELIMNEIMDHGPPVHWDIAGVEFAKA
TIKEIVVWPMRPDI FTGLRGPPKGILLFGPPGTGKTLIGKCIASQSGATFFSISASSLTSKWVGECEKM
VRALFAVARCQQPAVIFIDEIDSLLSQRGDGEHESSRIKTEFLVQLDGATTSSDRILVVGATNRPQEI
DEAARRRLVKRLYIPLPEASARKQIVGNLMSKEQCCLSDEETDLVVQQSDGFSGADMTQLCREASLGPRI
SLHAADIATISPDQVRPIAYIDFENAFKTVRPTVSPKDLELYENWNETFGCGK
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021891

ORF Size: 2961 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_021891.3](#), [NP_068691.2](#)

RefSeq Size: 2935 bp

RefSeq ORF: 2052 bp

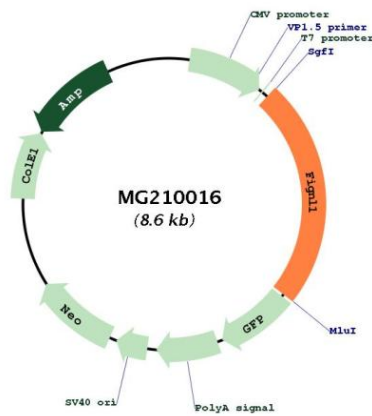
Locus ID: 60530

UniProt ID: [Q8BPY9](#)

Cytogenetics: 11 A1

Gene Summary: Involved in DNA double-strand break (DSB) repair via homologous recombination (HR). Recruited at DSB sites independently of BRCA2, RAD51 and RAD51 paralogs in a H2AX-dependent manner. May regulate osteoblast proliferation and differentiation (PubMed:17352653). May play a role in the control of male meiosis dynamic (PubMed:22110678).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210016