

Product datasheet for **MG216576**

Fig1l (NM_001163359) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Fig1l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG216576 representing NM_001163359
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGACGTCCAGCTCCATGTCTGTGGAGACGACTAGGTCTGTGCAGGTGGACGAATGGCAGAAGAATT
 ACTGTGTGGTTACATCCAGCATATGTACACCAAAGCAGAAGGCCGATGCATACCGTGCCTACTACTGCA
 TATTCAGTATGCATATGCCAACTCCGAGATCTCTCAGGTCTTTGCTACCAACCTGTTCAAAAAGGTATACA
 GAAAAATACTCTGCAATTATTGATTCTGACAAATGTTGTAACCTGGCTTGAATAACTATGCAGAGAGCATT
 TTGCTTTGGCAGGATCTCGACAGGCTGACAGTAAACAAGTGGCAGTCTGGATTGCAATAGATAATGTTTT
 CAAAATGAGTTGTGTACAGGAGATGATGCAGGCTGGCAAGAAATTTGAAGAGTCTCTGTTGGAACCTGCT
 GATGCATCAGTAGTCTGTGTAAGAGACCCACCGCCTTTGAGGTTCTCAGCTTAGTGTGTTGGAGGTT
 CTGAAGACGCTGACATATTATCCAGTTCAGGTCATGACACAGATAAGACCCAAGCCATTCCAGGGAGCAG
 TCTGAGATGTTCCCTTTTTCAGAGTCTCGGCTGCCTAAGGAACTAATACCACTAAGACATGCCTCACC
 TCCTCAACATCTTTAGGTGAGTCAGCCACTGCAGCATTTCACATGACACCAATTTTGGAAACACCGAAA
 AGGACACTCAAAGCTTTCCTAAAACAGCACAGGACTAAATATGTTCTTATCTAATCTGTCTTGTGTTCC
 TTCTGGCTGTGAAAACCTCAAGAAAGGAAGGCTTTTAAAGACTCTGACATCATTGACATACTTTCCAAT
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 ATCTTCTAATGGTGTATGAAAAAGTCTCTGGGAGCTGGGAGTTCGAGAGGGATATTTGGCAAGTTTGT
 CCTCTGTATCTAATAAGCAAGACGGAAAGTGGAGCAGCATGCCAAGAAGCACAAGTCTAGTAGGCAGGTT
 CTGCAGAACCAGCACACCTCACTGATGATTGTCTGAAGAACGTGGACCAAGGATGGTTGAACCTATTAT
 GAATGAAATATGACCATGGGCTCCAGTACATTGGGACGATATTGCTGGAGTAGAATTTGCCAAAGCC
 ACAATAAAGGAAATCGTTGTGTGGCCCATGATGAGGCCAGATATCTTTACTGGATTGCGAGGGCCCCCTA
 AAGGAATCTGCTCTTTGGCCCTCCAGGGACTGGTAAAACCTGATTGGCAAGTGCATTGCTAGCCAGTC
 TGGACCAACATTCTCAGCATCTCTGCTTCATCGTTGACTTCAAGTGGTAGGTGAGGGAGAAAAAATG
 GTCCGTGCACTGTTTGTGTTGCCAGGTGTCAGCAGCCAGCTGTCATATTTATTGATGAAATGATTCTT
 TATTGTCTCAACGAGGAGATGGTGAACATGAATCTTCAAGAAGGATAAAAACGGAATTTTTAGTTCAAGT
 AGATGGAGCAACCACATCTTCTGAAGACCGGATTCTTGTGGTGGGAGCTACAAATCGGCCCAAGAGATT
 GATGAAGCTGCCCGGAGAAGATTGGTAAAAGACTTTATATCCCCTCCAGAAAGCTTCAGCCAGGAAAC
 AGATAGTAGGTAATCTAATGTCTAAGGAGCAATGTTGTCTCAGTATGAAGAACTGATCTGGTAGTGCA
 GCAGTCTGATGGGTTTTCTGGCGCAGATATGACACAGCTTTCAGAGAGGCTTCTTGTGCTCATTTCGC
 AGTTTGCACGCTGCTGACATTGCTACCATAAGTCCAGATCAAGTTCGACCAATAGCTTATATTGATTTTG
 AAAATGCTTTTAAAACGTGCGACCTACTGTATCTCCAAAAGACTTGGAGCTTATGAAAACCTGGAATGA
 AACATTTGGTTGTGAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216576 representing NM_001163359
 Red=Cloning site Green=Tags(s)

METSSMSVETTRSVQVDEWQKNYCVVTSICTPKQKADAYRALLLHIQYAYANSEISQVFATNLFKRYT
 EKYSALIDSNDVVTGLNNYAESIFALAGSRQADSNKWQSLSIDNVFKMSCVQEMMQAGKKFEESLLEPA
 DASVVLCKEPTAFEVPQLSVCGGSEADILSSSGHDTDKTQAI PGSSLRCSFPQSARLPKETNTTKTCLT
 SSTSLGESATAAFHMTPLFGNTEKDTQSFPKTSTGLNMFLSNLSCVPSGCENPQERKAFNDSIDIILSN
 PTLNKA PSKTEDRGRREDNSLPTFKTAKEQLWVDQKKKGHSQHTSKSSNGVMKSLGAGRSRGI FGK FV
 PPVSNKQDGSEQHAKKHKSSRAGSAEPAHLTDDCLKNVEPRMVELIMNEIMDHGPPVHWDDIAGVEFAKA
 TIKEIVVWPMMPDIFTGLRGPPKIGILLFGPPGTGKTLIGKCIASQSGATFFSISASSLTSKWVGEKEM
 VRALFAVARCQQPAVIFIDEIDSLLSQRGDGEHSSRRIKTEFLVQLDGATTSSEDRILVVGATNRPQEI
 DEARRRLVKRLYIPLPEASARKQIVGNLMSKEQCCLSDEETDLVVQSDGFSGADMTQLCREASLGP
 IRLHAADIATISPDQVRPIAYIDFENAFKTVRPTVSPKDLELYENWNETFGCGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001163359

ORF Size: 2049 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001163359.1](#), [NP_001156831.1](#)

RefSeq Size: 2974 bp

RefSeq ORF: 2052 bp

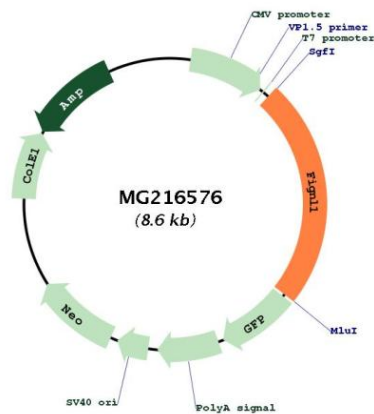
Locus ID: 60530

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 MG216576