

## Product datasheet for **MR216576**

### **Figl1 (NM\_001163359) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Figl1 (NM_001163359) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Figl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216576 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGACGTCCAGCTCCATGTCTGTGGAGACGACTAGGTCTGTGCAGGTGGACGAATGGCAGAAGAATT  
 ACTGTGTGGTTACATCCAGCATATGTACACCAAAGCAGAAGGCCGATGCATACCGTGCCTACTACTGCA  
 TATTCACTATGCATATGCCAACTCCGAGATCTCTCAGGTCTTTGCTACCAACCTGTTCAAAAAGGTATA  
 GAAAAACTCTGCAATTATTGATTCTGACAATGTTGTAAGTGGCTTGAATAACTATGCAGAGAGCATT  
 TTGCTTTGGCAGGATCTCGACAGGCTGACAGTAACAAGTGGCAGTCTGGATTGTCAATAGATAATGTTTT  
 CAAAATGAGTTGTGTACAGGAGATGATGCAGGCTGGCAAGAAATTTGAAGAGTCTCTGTTGGAACCTGCT  
 GATGCATCAGTAGTCCTGTGTAAGAGCCACCCTTTGAGGTTCTCAGCTTAGTGTGTTGTTGGAGGTT  
 CTGAAGACGCTGACATATTATCCAGTTCAGGTCATGACACAGATAAGACCAAGCCATCCAGGGAGCAG  
 TCTGAGATGTTCCCTTTTCAGAGTCTCGGCTGCCTAAGGAACTAATACCACTAAGACATGCCTCACC  
 TCCTCAACATCTTTAGGTGAGTCAGCCACTGCAGCATTTACATGACACCATTATTTGAAAACACCGAAA  
 AGGACACTCAAAGCTTTCTAAAACCAGCACAGGACTAAATATGTTCTTATCTAATCTGTCTTGTGTTCC  
 TTCTGGCTGTGAAAACCTCAAGAAAGGAAGGCTTTTAATGACTCTGACATCATTGACATACTTTCCAAT  
 CCAACTGAACAAGGCTCCTAGTAAAACAGAAGACAGAGGCCGAAGGGAAGATAATAGCCTGCCTACCT  
 TAAAACCTGCAAAAAGAACAATTATGGGTAGATCAAAAAGAAAAGGGCCATCAATCCCAGCATACATCTAA  
 ATCTTCTAATGGTGTATGAAAAGTCTCTGGGAGCTGGGAGGTCGAGAGGGATATTTGGCAAGTTTGT  
 CCTCTGTATCTAATAAGCAAGACGGAAGTGAAGCAGCATGCCAAGAAGCACAAGTCTAGTAGGGCAGGGT  
 CTGCAGAACCAGCACACCTCACTGATGATTGCTGGAAGAAGTGGAGCCAAAGGATGGTTGAACTTATTAT  
 GAATGAAATTATGGACCATGGCCCTCCAGTACATTGGGACGATATTGCTGGAGTAGAATTTGCCAAAGCC  
 ACAATAAAGGAAATCGTTGTGTGGCCATGATGAGGCCAGATATCTTTACTGGATTGCGAGGGCCCCCTA  
 AAGGAATCTGCTCTTTGGCCCTCCAGGGACTGGTAAAACCTGATTGGCAAGTGCATTGCTAGCCAGTC  
 TGGAGCAACATTTCTCAGCATCTCTGCTTCATCGTTGACTTCTAAGTGGGTAGGTGAGGGAGAAAAATG  
 GTCCGTGCACTGTTTGTGTTGCCAGGTGTGAGCAGCCAGCTGTCATATTTATTGATGAAATGATTCTT  
 TATTGTCTCAACGAGGAGATGGTGAACATGAATCTTCAAGAAGGATAAAAACGGAATTTTAGTTCACTT  
 AGATGGAGCAACCACATCTTCTGAAGACCGGATCTTGTGGTGGGAGCTACAAATCGCCCAAGAGATT  
 GATGAAGCTGCCCGGAGAAGATTGGTAAAAGACTTTATATTTCCCTCCCAGAAGCTTCAGCCAGGAAAC  
 AGATAGTAGGTAATCTAATGTCTAAGGAGCAATGTTGTCTCAGTATGAAGAACTGATCTGGTAGTGCA  
 GCAGTCTGATGGGTTTTCTGGCGCAGATATGACACAGCTTTCAGAGAGGCTTCTCTGGTCTATTTCGC  
 AGTTTGCACGCTGCTGACATTGCTACCATAAGTCCAGATCAAGTTCGACCAATAGCTTATATTGATTTTG  
 AAAATGCTTTTAAAACGTGCGACCTACTGTATCTCCAAAAGACTTGGAGCTTTATGAAAACGGAATGA  
 AACATTTGGTTGTGAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

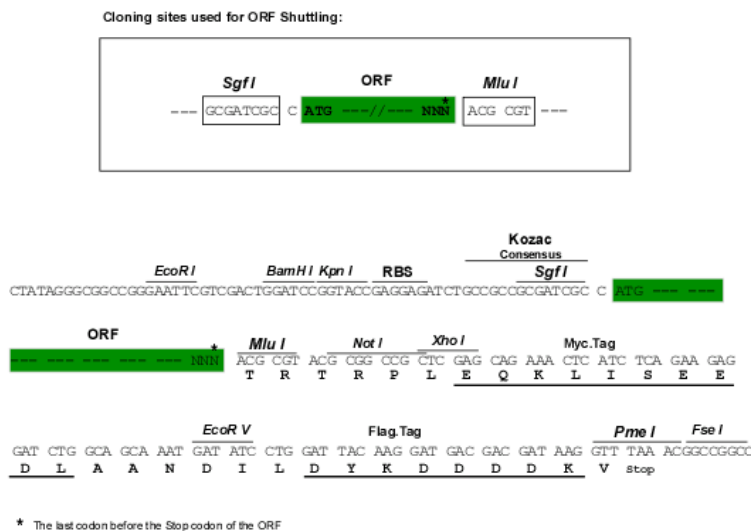
**Protein Sequence:** >MR216576 protein sequence  
Red=Cloning site Green=Tags(s)

METSSSMSVETTRSVQVDEWQKNYCVVTSICTPKQKADAYRALLLHIQYAYANSEISQVFATNLFKRYT  
 EKYSAIIDSDNVVTGLNNYAESIFALAGSRQADSNKWQSGLSIDNVFKMSCVQEMMQAGKKFEESLLEPA  
 DASVVLCKEPTAFEVPQLSVCGGSEADILSSSGHDTDKTQAIPGSSLRCSPFQSARLPKETNTTKTCLT  
 SSTSLGESATAAFHMTPLFGNTEKDTQSFPKTSTGLNMFLSNLSCVPSGCENPQERKAFNDSIDIILSN  
 PTLNKAPSKTEDRGRREDNSLPFKTAKEQLWVDQKKKGHQSQHTSKSSNGVMKSLGAGRSRGIFGKFV  
 PPVSNKQDGEQHAQKHKSSRAGSAEPAHLTDDCLKNVEPRMVELIMNEIMDHGPPVHWDIAGVEFAKA  
 TIKEIVVWPMMPDIFTGLRGPPKGILLFGPPGTGKTLIGKCIASQSGATFFSISASSLTSKWVGEKEM  
 VRALFAVARCQQPAVIFIDEIDSLLSQRGDGEHESSRRIKTEFLVQLDGATTSSDRILVVGATNRPQEI  
 DEARRRLVKRLYIPLPEASARKQIVGNLMSKEQCCLSDEETDLVVQSDGFSGADMTQLCREASLGP  
 IRLHAADIATISPDQVRPIAYIDFENAFKTVRPTVSPKDLELYENWNETFGCGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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.

**RefSeq:** [NM\\_001163359.1](#), [NP\\_001156831.1](#)

**RefSeq Size:** 2974 bp

**RefSeq ORF:** 2052 bp

**Locus ID:** 60530

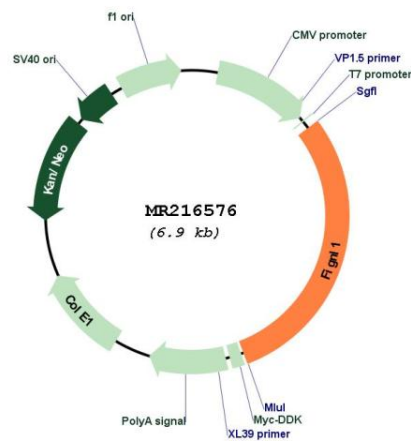
**UniProt ID:** [Q8BPY9](#)

**Cytogenetics:** 11 A1

**MW:** 74.9 kDa

**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 MR216576