

## Product datasheet for **MC219830**

### Fancg (NM\_053081) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fancg (NM_053081) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fancg
Synonyms:	AU041407; Xrcc9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219830 representing NM\_053081  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCAGCCAGGTCATTCCAGCCCTCCCCAAAACATTTTCCAGTAGCCTGGACCTGTGGAGGGAAAAGA  
 ACGACCAGCTTGTAGACAGGCTAAGCAACTCACCAGGGATTCTCGTCCCTCTCTGAGGGCAGCAATC  
 GGCCCAAGACACACTGGAAGGGCTTAGGGAACCTCCTCACTCTACAAGGACTCCCTGCTGCTGTCCCC  
 GCTCTCCCTTGGAGCTGACTGTCCTCTGTAATTGTATAATCCTGAGGGCTAGCCTAGTCCAGGCTTTCA  
 CTGAAGATCTTACCAGGATCTTCAAAGGGCCTCGAAAGAGTGTGGAGGCCAGCATCACCTGGAGCC  
 CAAGTCACAGCAGGGACTCAAGGAGCTGTGGCACTCTGTCCTCTGCTTCTCCCTTCCACCGGAGCTG  
 CTGCTGCCTTACTGCTGGCCAGCCTTCAAGCTGTCTTCTGGATGAGTACCGACCACCTGGAGGACC  
 TGACCTTGCTGTTACAAACCCTAAATGGCAGCCAGACTCAGTCTCTGAGGATCTGCTACTACTGCTAAA  
 ATCCTGGAGTCTCCAGCTGAGGAGTACCCGCCCACTGATTCTGCAGGATGCCGAGAGTTTGAGGGAT  
 GTCTTCTGACTGCATTTGCCTGCCCAAGGCTTCCAGGAGCTAATCACAGGGAGCCTGCCCATGACAC  
 AGAGCAACCTGCATGAAGCAGCCTCAGGTCTGTGTCGGCCGTCGGTGTAGTCCAGGTGTACACGGCCCT  
 GGGGGCTGTCTCCGTAAGATGGGAAATCCACAGAGAGCACTGTTGTAAGTACTGACTGAAGCCCTGAAAGTG  
 GGAACAACCTGTGCCCTTCCGCTTCTGGAGGCTTCCAGAGTATATAGGCAACTAGGAGACAGAGCAGCAG  
 AACTGGAGAGTCTGGAAGTGTGGTGGAGGCTTGAGTGCCACCCATAGTTCTGAAACATTCAAAAGTCT  
 CATTGAAGTAGAATTGCTACTTCCACAACCTGACCCAGCCTCTCCTTTCATTGTGGCACACAGAGCCAG  
 GCCAAGCACCTGCTAGCAAGTCGATGCCTGCAGACGGGGAGGGCAGAAGATGCTGCAGAGCATTACCTGG  
 ACCTGTGGCAATGTTGCTGGTGGCTCAGAGACAAGTTCTCCCAACCCACCTCCTCTAGGTCCCTG  
 TATACCAGAGTTATGCTCTGGAGGCAGCAGCACTGATCCAGGCAGGCCGAGCCTTAGACGCTTTGACT  
 GTGTGTGAGGAGCTGCTCAACCGTACCTCGTCTGCTTCCCAAAATGTCTCCTTGTGGGAAAATGCCA  
 GGAAAAGAGCCAAAGAACTGCCGTGTTGCCAGTCTGGGTCTCTGCCACCCACCTGCTTCAGGGCCAGGC  
 CTGGTCAACTAAAGGCTCAGAAAGAGGCACTTAGTGAATTTAGCCAGTGTCTTGAGCTGCTTTTCGG  
 ACCCTGCCTGAGGACAAAGAACAAGGCTCCGACTGTGAGCAGAAGTGTAGGTCTGACGTGGCACTGAAAC  
 AGCTGCGAGTGGTCTGCTGATCAGTCGTGGACTGGAGTGGTAGCCAGTGGCCAGGATACCAAAGCCTT  
 AAGTGACTTCTCCTCAGTGTGCAGATATGCCAGGCAATAGAGATGGCTCCTTTTACCTGCTTCAGACT  
 CTGAAAAGATTGGATCGGAAGAATGAGGCCAGTCTTTTGGCGGGAGGCCACAGCCAGCTGCCACTGG  
 AGGACGCTGCCGGTCTCTTCCACTGTATTTAGAAACCTGTTTGGAGCTGGATCCATCCCCTAACCGCGA  
 AGCCTTCTTGGAGGATTTGGGACTTCGGTGTGGAGTCTTGTGTCCTT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_053081

**Insert Size:** 1872 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).

**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\\_053081.2](#), [NP\\_444311.1](#)

**RefSeq Size:** 2723 bp

**RefSeq ORF:** 1872 bp

**Locus ID:** 60534

**UniProt ID:** [Q9EQR6](#)

**Cytogenetics:** 4 A5

**Gene Summary:** DNA repair protein that may operate in a postreplication repair or a cell cycle checkpoint function. May be implicated in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability. Candidate tumor suppressor gene (By similarity).

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.