

Product datasheet for **MC219728**

Fancg (NM_001163233) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fancg (NM_001163233) 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: >MC219728 representing NM_001163233
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGCCAGGTCATTCCAGCCCTCCCAAAACATTTCCAGTAGCCTGGACCTGTGGAGGGAAAAGA
 ACGACCAGCTTGTAGACAGGCTAAGCAACTCACCAGGGATTCTCGTCCCTCTCTGAGGGCAGACGAATC
 GGCCCAAGACACACTGGAAGGGCTTAGGAACTCCTCCTCACTCTACAAGGACTCCCTGCTGCTGTCCCC
 GCTCTCCCTTGGAGCTGACTGCTCTGTAATTGTATAATCCTGAGGGCTAGCCTAGTCCAGGCTTTCA
 CTGAAGATCTTACCCAGGATCTTCAAAGGGCCTCGAAAGAGTGTGGAGGCCAGCATCACCTGGAGCC
 CAAGTCACAGCAGGGACTCAAGGAGCTGTGGCACTCTGCTCTCTGCTTCTCCCTTCCACCGGAGCTG
 CTGCTGCCTTACTGCCTGGCCAGCCTTCAAGCTGTCTTCTGGATGAGTACCGACCACCTGGAGGACC
 TGACCTTGCTGTTACAAACCCTAAATGGCAGCCAGACTCAGTCTCTGAGGATCTGCTACTACTGCTAAA
 ATCCTGGAGTCTCCAGCTGAGGAGTACCCGCCCACTGATTCTGCAGGATGCCGAGAGTTTGAGGGAT
 GTCTTCTGACTGCAATTTGCCTGCCCAAGGCTTCCAGGAGCTAATCACAGGGAGCCTGCCCCATGCAC
 AGAGCAACCTGCATGAAGCAGCCTCAGGTCTGTGTCCGCCGTCCGTGTTAGTCCAGGTGTACACGGCCCT
 GGGGGCTGTCTCCGTAAGATGGGAAATCCACAGAGAGCACTGTTGTACTTGACTGAAGCCCTGAAAGTG
 GGAACAACCTGTGCCCTTCCGCTTCTGGAGGCTTCCAGAGTATATAGGCAACTAGGAGACAGAGCAGCAG
 AACTGGAGAGTCTGGAAGTGTGGTTGAGGCCCTTGTAGTCCACCCATAGTTCTGAAACATTCAAAGTCT
 CATTGAAGTAGAATTGCTACTTCCACAACCTGACCCAGCCTCTCCTTTCATTGTGGCACACAGAGCCAG
 GCCAAGCACCTGCTAGCAAGTCGATGCCTGCAGACGGGGAGGGCAGAAGATGCTGCAGAGCATTACCTGG
 ACCTGTGGCAATGTTGCTGGTGGCTCAGAGACAAGGGTAGGTCCTGTATACCAGAGTTATGCTGGA
 GGCAGCAGCAGCACTGATCCAGGCAAGCCGAGCCTTAGACGCTTTGACTGTGTGTGAGGAGCTGCTCAAC
 CGTACCTCGTCTGCTTCCCAAAATGTCTCCTTGTGGGAAAATGCCAGGAAAAGAGCCAAAGAACTGC
 CGTGTGGCCAGTCTGGGTCTCTGCCACCCACCTGCTTCCAGGGCCAGGCCTGGTCAACAAAGGCTCA
 GAAAGAGGCACTTAGTGAATTTAGCCAGTGTCTTGTAGCTGCTCTTTCCGACCCCTGCCTGAGGACAAAGAA
 CAAGGCTCCGACTGTGAGCAGAAGTGTAGGTCTGACGTGGCACTGAAACAGCTGCGAGTGGCTGCTCTGA
 TCAGTCGTGGACTGGAGTGGGTAGCCAGTGGCCAGGATACCAAAGCCTTAAGTACTTCTCCTCAGTGT
 GCAGATATGCCAGGCAATAGAGATGGCTCCTTTTACCTGCTTCCAGACTCTGAAAAGATTGGATCGGAAG
 AATGAGGCCAGTCTTTTGGCGGGAGGCCACAGCCAGCTGCCACTGGAGGACGCTGCCGGTCTCTTC
 CACTGTATTTAGAAACCTGTTTGTAGCTGGATCCATCCCCCTAACCGCGAAGCCTTCTTGTAGGAGTTGG
 GACTTCGGTGTGGAGTCTGTGTCCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001163233
- Insert Size:** 1851 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_001163233.1](#), [NP_001156705.1](#)

RefSeq Size: 2702 bp

RefSeq ORF: 1851 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 (2) lacks an alternate in-frame segment compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to 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.