

Product datasheet for **MR219933**

Fancg (NM_053081) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR219933 representing NM_053081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGCCAGGTCATTCCAGCCCTCCCAAAACATTTCCAGTAGCCTGGACCTGTGGAGGGAAAAGA
 ACGACCAGCTTGTAGACAGGCTAAGCAACTCACCAGGATTCTCGTCCCTCTCTGAGGGCAGCAATC
 GGCCAAAGACACACTGGAAGGGCTTAGGAACTCCTCCTCACTCTACAAGGACTCCCTGCTGCTGTCC
 GCTCTCCCTTGGAGCTGACTGCTCTGTAATTGTATAATCCTGAGGGCTAGCCTAGTCCAGGCTTTCA
 CTGAAGATCTTACCAGGATCTTCAAAGGGCCTCGAAAGAGTGTGGAGGCCAGCATCACCTGGAGCC
 CAAGTCACAGCAGGACTCAAGGAGCTGTGGCACTCTGCTCTCTGCTTCTCCCTTCCACCGGAGCTG
 CTGCTGCCTTACTGCCTGGCCAGCCTTCAAGCTGTCTTCTGGATGAGTACCGACCACCTGGAGGACC
 TGACCTTGCTGTTACAAACCCTAAATGGCAGCCAGACTCAGTCTCTGAGGATCTGCTACTACTGCTAAA
 ATCCTGGAGTCTCCAGCTGAGGAGTACCCGCCCACTGATTCTGCAGGATGCCGAGAGTTTGAGGGAT
 GTCTTCTGACTGCATTTGCCTGCCCAAGGCTTCCAGGAGCTAATCACAGGGAGCCTGCCCATGCAC
 AGAGCAACCTGCATGAAGCAGCCTCAGGTCTGTGTCCGCCGTCGGTGTAGTCCAGGTGTACACGGCCCT
 GGGGGCTGTCTCCGTAAGATGGGAAATCCACAGAGAGCACTGTTGTAAGTACTGACTGAAGCCCTGAAAGTG
 GGAACAACCTGTGCCCTTCCGCTTCTGGAGGCTTCCAGAGTATATAGGCAACTAGGAGACAGAGCAGCAG
 AACTGGAGAGTCTGGAAGTGTGGTTGAGGCTTGTAGTCCACCCATAGTTCTGAAACATTCAAAAGTCT
 CATTGAAGTAGAATTGCTACTTCCACAACCTGACCCAGCCTCTCCTTTCATTGTGGCACACAGAGCCAG
 GCCAAGCACCTGTAGCAAGTCGATGCCTGCAGACGGGGAGGGCAGAAGATGCTGCAGAGCATTACCTGG
 ACCTGTGGCAATGTTGCTGGTGGCTCAGAGACAAGTTCTCCCAACCCACCTCTCTAGTCCCTG
 TATACCAGAGTTATGCTGTGGAGGACAGCAGCAGTATCCAGGACGGCCGAGCCTTAGACGCTTTGACT
 GTGTGTGAGGAGCTGCTCAACCGTACCTCGTCTGCTTCCCAAAATGTCTCCTTGTGGAAAATGCCA
 GGAAAAGAGCCAAAGAACTGCCGTGTTGCCAGTCTGGTCTCTGCCACCCACTGCTTACAGGGCCAGGC
 CTGGTCACAATAAAGGCTCAGAAAGAGGCACTTAGTGAATTTAGCCAGTGTCTTGTGCTCTTTTCGG
 ACCCTGCCTGAGGACAAAGAACAAGGCTCCGACTGTGAGCAGAAGTGTAGGTCTGACGTGGCACTGAAAC
 AGCTGCGAGTGGTCTCTGATCAGTGTGGACTGGAGTGGTAGCCAGTGGCCAGGATACCAAAGCCTT
 AAGTGACTTCTCCTCAGTGTGCAGATATGCCAGGCAATAGAGATGGCTCCTTTTACCTGCTTCAGACT
 CTGAAAAGATTGGATCGGAAGAATGAGGCCAGTCTTTTGGCGGGAGGCCACAGCCAGCTGCCACTGG
 AGGACGCTGCCGGTCTCTTCCACTGTATTTAGAAACCTGTTTGTAGCTGGATCCATCCCCTAACCGCA
 AGCCTTCTTGTAGGAGTTTGGGACTTCGGTGTGGAGTCTTGTGTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219933 representing NM_053081
 Red=Cloning site Green=Tags(s)

MSSQVIPALPKTFSSSLDLWREKNDQLVRQAKQLTRDSRPSLRRQQAQDTLEGLRELLLTLQGLPAAVP
 ALPLELTVLCNCIILRASLVQAFTEDLTQDLQRGLERVLEAQHHLEPKSQQLKELWHSVLSASSLPPEL
 LPALHCLASLQAVFWMSTDHLEDLTLLLQTLNGSQTQSSDLLLLKSWSPPAEESPAPLILQDAESLRD
 VLLTAFACRQGFQELITGSLPHAQSNLHEAASGLCPPSVLVQVYALGACLRKMGPNQRALLYL TEALKV
 GTTCALPLLEASRVYRQLGDRAAELESLELLVEALSATHSSETFKSLIEVELLLPQDPASPLHCGTQSQ
 AKHLLASRCLQGRAEDAAEHYLDLLAMLLGGSETRFSPPTSSLGPCIPELCLAAAAALIQAGRALDALT
 VCEELLNRTSSLLPKMSSLWENARKRAKELPCCPVWVSATHLLQGQAWSQLKAQKEALSEFSQCLELLFR
 TLPEDKEQGSDFEQKCRSDVALKQLRVAALISRGLEWVASGQDTKALSDFLLSVQICPGNRDGSFYLLQT
 LKRLDRKNEASAFWREAHSQLPLEDAAGSLPLYLETCLSWIHPPNREAFLEEFGTSVLESCVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9077_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053081

ORF Size: 1869 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_053081.2](#), [NP_444311.1](#)

RefSeq Size: 2723 bp

RefSeq ORF: 1872 bp

Locus ID: 60534

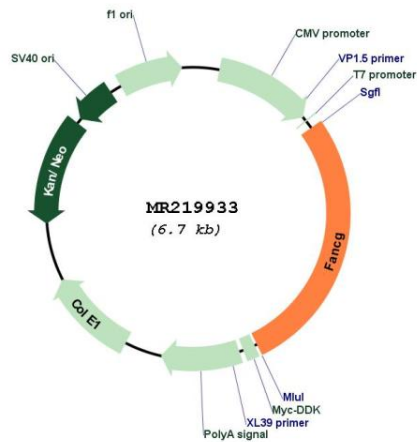
UniProt ID: [Q9EQR6](#)

Cytogenetics: 4 A5

MW: 68.5 kDa

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]

Product images:



Circular map for MR219933