

## Product datasheet for **MG219831**

### Fancb (NM\_001146081) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fancb (NM_001146081) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fancb
Synonyms:	BC022692
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG219831 representing NM\_001146081  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCATTTAATGAGCAAGCAAAGTTCTGTGCTATCATGGGAAATCCTTGTCTTTCAGTTGTCCAGAG  
 GAGAGCGTGCAGATTTAGAAATGCCTACAGATCCACTGGTCTTAGGTGTCAAAGGATGATGTTTGACAG  
 AGAAACTAGTACATTCCTTCTGATATCCACTGTTTTTTAAACATCAACGAAAAAGATTCTCATTTAAAA  
 ATTCTGTGTTGAACTGTGTGCCGATTGAGAAGTAACTTCAACCTTCCCTTGCCTTTGATACAATGTA  
 GAAAGTACAATAGTGAAGCTTTCAAATATTGTATCCTGCTTCTTCAATCTCAACAGAGTGGAGAGACT  
 TTTGAGTTTTGAACTAAACCATGCATTGGATGAGAACACAAGATCTTTGACGGCCCTATAGTTTTCTGG  
 CAGTATCTCAACCACTTCTTCTATCTCTTCTGCAATTGGGAAAGTTACTACTATATCACTTATGCTTT  
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 GGATAAATGTACCCAGAAGCTTTGAGAATCAGACTATGAATTTTCCAATCCAGCCTTTGCGCATATGCT  
 CTTAAAAGTCAAGAAATGTTAAGCAATGGTTACCTGATCCCTCTTGTACAGTACTATGGTAACACACCG  
 TGCATGTCTGGGCGCGGAGATGGTTGACCACCAGTTAAGAACATCTCTGATTGCCCTGACTCGAAAGAA  
 TCAGCTCATTTTGTTCAAAATGGCATTCTGTAGAGCATGTCAGCTTCCATTTCCAGGTCCCCGTTCA  
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 AAGAGGAGCATGAAAATTTATTTTGGTCTTCCAGCACTGGAAGGCCAATTAGACAATCTTTTATTTT  
 TCTTAACAAAATCCAGCAGCATATCTCTTTTAAAGGATAAAATTTATTGCAAAGTCTTGAAGGCTCTTTTA  
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 GCCAGAACATATTGTAGAGCAGACATGGTGCCATGTAAGTACTAGTACTAGTGTGGGCGCAAAAGTC  
 ACATCTTTGAAGGAATCTAATGAGATGACTTTTACTGATAATGAATCAAGGCAACAGGTCCAGTTTTT  
 ATCTTATGAAGTGTACAGTCAAGTGTAGTTTGTAGTATGAATCTTTTCCAGAAGCATACTTGTATGTC  
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 TTTCTTAGTTGATCATTGTGTCATCCACTTTGGAGGCAGAACTGGTTACCTTTTGTTCAGTTTCTACTTCT  
 GCCTTCGAGTATGTTAGAGGTGGATATAACTGTAGAATAAGGAGAACAGATAATAGGGCCATGACATTTT  
 TAGGGAGAAAGGCCAAAATCCGTCAAGTCAAGCGCAAAGTTTCAAGAGAAAGGATACTGAAGCACCTTAA  
 TATGACAGTAAATGGCAGCAGCTATGCGGAGATGACTTTGGCGTTGGCTGAGATTGAAATCAGAC  
 CTCATTGTAAGACACTGGCCAATTTTGAATTGCACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG219831 representing NM\_001146081  
 Red=Cloning site Green=Tags(s)

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MPFNEQAKFLCYHGEILVFQLSRGERADLEMPDPLVLGVKRMFDRETSTFLLISTVFLNINEKDSHLK
ILCCNCVSDLRTRINLPCVLIQCRKYNSEAFKYCILLHNLNRVERLLSFELNHALDENTKIFDGPVFW
QYLNQFFYISSAIGKVTTISLMLSSIEWIGEIENFGLGFLGLAEPSEDKCTQKLESDYEFSSNSLCAYA
LKSQEMLSNGYL IPLAYSTMVTHVHVWAAEMVDHQLRTSLIALTRKNQLILFQNGIPVRACQLPFPGRS
VQILDAGKRNRFFIVSFPSKACAVSEKFKVVAKWEQLSLVLVNDFAGVGTEQVLVVFEDSLDADQLTSF
TVTDFVKIYWSTKPLDCCEDPLAEEEHENYYLVLPALLEGQLDNSFIFLNKIQQHISFKDKFIAKSWKALL
NAVYGGKDSLPSDEMVKLDQDGLVPFCDEGEDSVPTPEENLPDNFPEPEHIVEQTWCHVLDDDLVVGAKV
TSLKESNEMTSLIMNQGNRSSFHLMKCHSQVISLSMNSFPEAYLMSKEAGPDSERMQLVSSSVEAESSF
CGQSSKAESTRIITAVTSLSPLL VFNQLCCTVLLNISDRDNPKATVHDYIVCGNLDFNLQDLFSKNHLLA
FPKESVEHTEDLFSLLGVLPKYPFCVTSPTHAPNFMKVWLLKHKMCKERIQECTEIIYLYKKLRNCGALFS
WEQRTASEGILTIYCRSQGVLFQCLDHLIKVLP EICSFKYLKVENEDFLVDHLSSTLEAELVTFCVSTVS
AFEYVRRGGYNCRI RRTDNRAMTFLGRRAKIRQSKRKVQRERILKHLNMTVNGSSYAEMTLALAEIQLKSD
LIVKTLANFVIAL
  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001146081

ORF Size: 2559 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\\_001146081.1](#), [NP\\_001139553.1](#)

**RefSeq Size:** 2984 bp

**RefSeq ORF:** 2562 bp

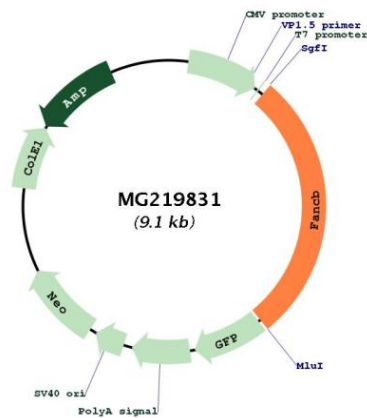
**Locus ID:** 237211

**UniProt ID:** [Q5XJY6](#)

**Cytogenetics:** X F5

**Gene Summary:** DNA repair protein required for FANCD2 ubiquitination.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG219831