

Product datasheet for **MR219831**

Fancb (NM_001146081) Mouse Tagged ORF Clone

Product data:

| | |
|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Fancb (NM_001146081) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Fancb |
| Synonyms: | BC022692 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide
Sequence:

>MR219831 representing NM_001146081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCATTTAATGAGCAAGCAAAGTTCTGTGCTATCATGGGAAATCCTTGTCTTTCAGTTGTCCAGAG
 GAGAGCGTGCAGATTTAGAAATGCCTACAGATCCACTGGTCTTAGGTGTCAAAGGATGATGTTTGACAG
 AGAAACTAGTACATTCCTTCTGATATCCACTGTTTTTTAAACATCAACGAAAAAGATTCTCATTTAAAA
 ATTCTGTGTTGAACTGTGTGCCGATTGAGAAGTAACTTCAACCTTCCCTTGCCTTTTGATACAATGTA
 GAAAGTACAATAGTGAAGCTTTCAAATATTGTATCCTGCTTCTTCAACATCTCAACAGAGTGGAGAGACT
 TTTGAGTTTTGAACTAAACCATGCATTGGATGAGAACACAAGATCTTTGACGGCCCTATAGTTTTCTGG
 CAGTATCTCAACCACTTCTTCTATCTCTTCTGCAATTGGGAAAGTTACTACTATATCACTTATGCTTT
 CCTCTATTGAGTGGATCCGTGAGATTGAAAACCTTTGGCCTAGGTTTCTTGGGGCTAGCAGAACCATCTGA
 GGATAAATGTACCCAGAAGCTTTGAGAATCAGACTATGAATTTTCCAATCCAGCCTTTGCGCATATGCT
 CTTAAAAGTCAAGAAATGTTAAGCAATGGTTACCTGATCCCTCTTGTCTACAGTACTATGGTAACACACG
 TGCATGTCTGGGCGCGGAGATGGTTGACCACCAGTTAAGAACATCTCTGATTGCCCTGACTCGAAAGAA
 TCAGCTCATTTTGTTCAAAATGGCATTCTGTAAAGAGCATGTCAGCTTCCATTTCCAGGTCCCCGTTCA
 GTTCAGATTCTAGATGCAGGGAAAAGAAACCGATTTTTTTCATCGTGTCACTCCCGTCCAAGGCTTGTGCTG
 TTTGAGAAAAGAAATTAAGGTTGTGTAAGTGGGAACAACCTAGCTTAGTACTGGTGAATGACTTTGCT
 TGGAGTTGGAAGTGAACAAGTACTGGTCTTTTTGAGGACTCTCTGGATGCAGATCAGCTGACCTCATT
 ACAGTAACAGATTTTGTCAAATATGGTATTCAACCAACCACTGGATTGCTGTGAAGACCCTTTGGCTG
 AAGAGGAGCATGAAAATTAATTTTGGTCTTCCAGCACTGGAAGGCCAATTAGACAATCTTTTATTT
 TCTTAACAAAATCCAGCAGCATATCTCTTTTAAAGGATAAAATTTATTGCAAAGTCTTGAAGGCTCTTTTA
 AACGCAGTTTATGGGAAAGGTGACAGTCTGCCAAGTGTGAAATGGTTAAGTTAGACCAGGACGGTCTTG
 TTCCTTCTGTGATGAAGGTGAAGACAGTGTCCCTACCCCTGAGGAAAACCTACCAGACAATTTTCCAGA
 GCCAGAACATATTGTAGAGCAGACATGGTGCCATGTAAGTACTAGTACTGACTTAGTTGTGGGCGCAAAAGTC
 ACATCTTTGAAGGAATCTAATGAGATGACTTTTACTGATAATGAATCAAGGCAACAGGTCCAGTTTTT
 ATCTTATGAAGTGTACAGTCAAGTGTAGTTTGTAGTATGAATCTTTTCCAGAAGCATACTTGTATGTC
 AAAGGAAGCAGGACCAGACAGCGAAAGGATGCAGCTGGTCTCTAGTAGCGTGAAGCGGAAAGCTCTTT
 TGCGGCCAGTCACTCAAGGCAGAGTCTACAGCATAATCACTGCTGTAAAGTCTCTTTCCACTTCTAG
 TGTTCAACCAATTGTGTTGCACTGTGCTTAAACATTAGTGACAGAGATAATCCTAAAGCTACTGTGCA
 TGATTATATTGTCTGTGGCAACCTTGATTTAATCTACAAGATCTTTTTAGTAAGAACCCTCCTGGCA
 TTCCCAAAGAAGGAATCAGTAGAACATACAGAGGATCTTTTTTCACTTCTTGGAGTATTGCCAAGTATC
 CCTTCTGTGTACATCACCTACCCATGCCCCGAATTTTATGAAGGTATGGCTCTTGAAACACATGAAATG
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 TGGGAGCAGAGAACAGCATCTGAAGGAATTTTAAACAATATATTGCAGGAGCCAAGGAGTTTTGTTCCAGT
 GTCTCGACCATCTCATCAAAGTTCTCCCTGAAATATGTTCCCTCAAATATCTGAAGTCAAGAAATGAGGA
 TTTCTTAGTTGATCATTTGTATCCACTTTGGAGGCAGAACTGGTTACCTTTTGTTCAGTTTCTACTTCT
 GCCTTCGAGTATGTTAGAGGTGGATATAACTGTAGAATAAGGAGAACAGATAATAGGGCCATGACATTTT
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 TATGACAGTAAATGGCAGCAGCTATGCGGAGATGACTTTGGCGTTGGCTGAGATTGAGTTGAAATCAGAC
 CTCATTGTAAGACACTGGCCAATTTTGAATTGCACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219831 representing NM_001146081
Red=Cloning site Green=Tags(s)

MPFNEQAKFLCYHGEILVFQLSRGERADLEMPDPLVLGVKRMFDRETSTFLLISTVFLNINEKDSHLK
ILCCNCVSDLRTRINLPCVLIQCRKYNSEAFKYCILLHNLNRVERLLSFELNHALDENTKIFDGPVFW
QYLNQFFYISSAIGKVTTISLMLSSIEWIGEIENFGLGFLGLAEPSEDKCTQKLESDYEFSSNSLCAYA
LKSQEMLSNGYL IPLAYSTMVTHVHVWAAEMVDHQLRTSLIALTRKNQLILFQNGIPVRACQLPFPGRS
VQILDAGKRNRFFIVSFPKACAVSEKFKVVAKWEQLSLVLVNDFAGVGTEQVLVVFEDSLDADQLTSF
TVTDFVKIYWSTKPLDCCEDPLAEEHENYYLVLPALLEGQLDNSFIFLNKIQQHISFKDKFIAKSWKALL
NAVYGGDSLPSDEMVKLDQDGLVPFCDEGEDSVPTPEENLPDNFPEPEHIVEQTWCHVLDDDLVVGAKV
TSLKESNEMTSLIMNQGNRSSFHLMKCHSQVISLSMNSFPEAYLMSKEAGPDSERMQLVSSSVEAESSF
CGQSSKAESTRIITAVTSLSPLLVFNQLCCTVLLNISDRDNPKATVHDYIVCGNLDFNLQDLFSKNHLLA
FPKESVEHTEDLFSLLGVLPKYPFCVTSPTHAPNFMKVWLLKHKMCKERIQECTEIIYLYKKLRNCGALFS
WEQRTASEGILTIYCRSQGVLFQCLDHLIKVLPETCSFKYLKVENEDFLVDHLSSTLEAELVTFCVST
AFEYVRRGGYNCIRRTDNRAMTFLGRRAKIRQSKRKVQRERILKHLNMTVNGSSYAEMTLALAEIQLKSD
LIVKTLANFVIAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

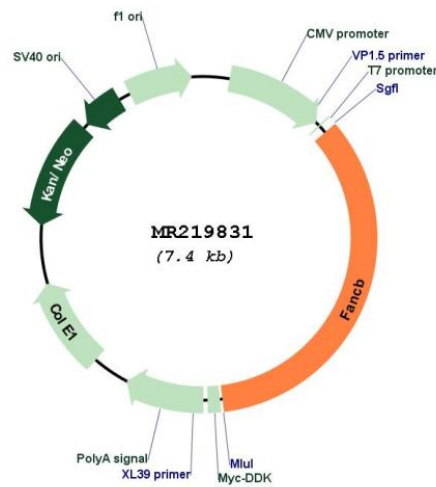
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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 |
| MW: | 97.4 kDa |
| Gene Summary: | DNA repair protein required for FANCD2 ubiquitination.[UniProtKB/Swiss-Prot Function] |