

Product datasheet for RC211791

FANCM (NM_020937) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCM (NM_020937) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FANCM
Synonyms:	FAAP250; KIAA1596; POF15; SPGF28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211791 representing NM_020937 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGCGGACGGCAAAGAACGCTTTTTCAGACGTGGGGCTCAAGTATCTCCCGATCATCTGGGACTCCGG
 GTTGCAGCTCCGGAAGTACGACGCTCAGAGCCCTGGCAGCTCCAAGGCGCCTTTGCCAGCAGCAGCGGA
 GGCTCAGCTGGAGTCGGACGATGATGTGTTGCTTGTGCGGCGTACGAGGCTGAGCGGCAGTTGTGTCTA
 GAGAATGGCGGGTCTGCACCTCCGCGGCGCCCTGTGGATTTACCTACCAATTGCCAGTGCGGGACT
 ACCAGTGCACATTTCCCGGGCTGCTCTGTTTTGCAATACGCTGGTGTGTCTGCCTACCGGACTGGGAAA
 GACCTTTATTGCCGCGTGGTCATGTACAATTTCTACCGCTGGTCCCTTCAGGAAAGGTGGTCTTCATG
 GCCCAACGAAACCCCTTGGTGACACAGCAGATCGAGGCTTGCTACCAGGTGATGGGTATCCCGCAATCCC
 ACATGGCCGAAATGACAGGGTCTACACAAGCTTCCACCAGGAAGGAAATATGGTGCAAGTAAAGAGTGCT
 TTTTCTTACACCTCAGGTCATGGTAAATGACCTTTCTAGAGGAGCTTGCCCGCTGCTGAAATAAAGTGT
 TTAGTTATTGATGAAGCTCATAAAGCTCTCGGAAACTATGCTTATTGCCAGGTTGAAGAGAACTAGTCA
 AATATACAAATCACTTTAGAATCTTGGCTCTAAGTGCCACACCAGGTAGTGATATAAAGGCTGTGCAACA
 AGTTATTACTAACCTGCTAATTGGGCAGATAGAGCTTCGTTCTGAAGATTCTCCAGATATTTTGACATAT
 TCTCATGAAAGAAAAGTTGAAAAGCTTATTGTTCCGCTTGGTGAAGAAGTGCAGCCATCCAAAAGACCT
 ATATCCAGATTTTGAATCATTTGCTCGTTCTTTGATTACAGGAATGTTTGGATGAGAAGGGATATCCC
 AAATCTAACAAAATATCAGATAATTCTGGCAAGAGATCAGTTTAGGAAAAACCCATCTCCGAATATTGTG
 GGAATACAACAAGGCATAATCGAGGGAGAGTTTGCTATTTGTATTAGTTTATCATGTTATGAATTAT
 TGCAGCAATGGGAATGAGATCATTATATTTCTCCTTTGTGGAATTATGGATGGAATAAAGGGATGAC
 ACGGTCAAAAAATGAAGTGGCCGAAATGAAGACTTCATGAACTCTATAATCATCTAGAGTGTATGTTT
 GCACGTACACGTAGTACTTCAGCAATGGTATTTCTGCTATCCAACAAGGAGATAAAAAATAAAAAATTTG
 TTTATAGTCATCCAAAGTTAAAGAAATTAGAAGAAGTTGAATTGAACACTTCAAGTCATGGAATGCTGA
 AAACACTACTGAAAAGAAACGTGATGAGACCCGAGTTATGATCTTCTCTTCATTTGAGATAGTGTCAA


[View online »](#)

GAAATTGCAGAAATGCTTTCACAGCATCAGCCAATTATTAGAGTAATGACTTTTGTGCGGCATGCCTCAG
 GGAAAAGCACGAAGGTTTTACCCAGAAGGAGCAACTGGAGGTAGTGAACAGTTTCGTGACGGTGGTTA
 CAACACGCTGGTTTCTACCTGTGTGGGTGAAGAAGTTTGGATATAGGAGAAGTTGATCTTATAATATGT
 TTTGATTCCCAGAAAGAGCCCAATTCGTCTTGTACAACGAATGGGTAGAAGTGGCCGTAACGTCAGGCA
 GGATAGTTATTATCCTTTCTGAAGGACGAGAGGAACGTATTTATAATCAGAGTCAGTCCAACAAAAGAAG
 TATATATAAAGCTATTTCAAGTAACAGGCAGGTCTTCATTTTTACCAAAGAAGTCCACGAATGGTTCCT
 GATGGAATCAACCCAAAATTACACAAAATGTTTCATCACACATGGTGTCTATGAACCAGAGAAGCCTTCTC
 GGAACCTTGACGCGAAAAGTCATCTATCTTTTCTATAGGGATGGAATGAGGCAAAAGTAGCCTAAAGAAAGA
 TTGGTTCTTATCAGAAGAAGAATTTAAATTATGGAACAGACTTTATAGATTAAGGGACAGTGATGAAATT
 AAAGAGATAACATTGCCTCAAGTTCAGTTTTCTCTTTACAAAATGAGGAAAAACAAACAGCTCAAGAAT
 CAACCACTGGAATTCATCAACTCTCTCTCTGTAATGGAGACTGTGGCAAGATCATCCTTTGCTACACA
 TCAAGTTGATCACTCAGATCGATGCCGCCATTTATAGGCCTTATGCAAATGATAGAGGGAATGAGACAC
 GAAGAGGGAGAATGCAGCTATGAATTGGAAGTTGAATCTTATTTACAAATGGAAGATGTTACCTCAACAT
 TTATTGCTCCCAGGAATGAATCTAATAATCTTGCCAGTGACACCTTTATCACTCACAAGAAATCGTCATT
 TATAAAGAACATAAATCAAGGCAGTTCATCCTCAGTGATAGAATCTGATGAAGAATGTGCTGAAATTGTT
 AAACAAACTCATATCAAACTACTAAAAATGTTTTCTTTAAAGAAAAAAGTGCTAAAGAAATAAAAAAG
 ATCAGCTTAAAAAAGAAAATAATCACGGTATTATAGATTCTGTAGATAATGACAGAAATCCACTGTTGA
 AAATATTTTTCAAGAAGACCTACCAATGATAAAAGGACATCAGATACAGATGAAATTGCTGCCACATGT
 ACTATTAATGAAAATGTTATTAAGAACCGTGTGTGTTATTAACAGAGTGTGAGTTTACAAATAAATCCA
 CTAGTTCACTTGCTGGAATGTTTTAGATTCTGGTTATAACAGTTTCAATGATGAAAAATCTGTTTCATC
 TAACCTATTTCTCCATTGGAAGAAGAGCTTTATATTGTTAGAACAGATGACCAATTTTATAATTGTCAC
 TCATTGACAAAAGAGGTACTAGCTAATGTAGAGAGATTTTATCTTATTCTCCTCCGCTCTCAGTGGAC
 TCTCAGACTTGGAATATGAAATTGCTAAGGGTACTGCATTGAGAATTTGCTTTTCTTACCCTGTGCAGA
 GCATTACTGAAGTGATAAATGCACCTGTTTGCTGTACATTGAGTGTGAATTCTCAACAGAAATTTAGAA
 TTGAATTCACCTTAAATGTATAAATTATCCATCTGAAAAAGTTGCCTTTATGATATACCTAATGATAATA
 TTTCTGATGAGCCAAGTCTCTGTGACTGTGATGTACATAAACATAATCAAAATGAAAATTTAGTACCTAA
 CAATCGTGTTCAAATACACAGAAGCCCTGCACAGAATTTAGTTGGAGAGAACAATCATGATGTTGATAAC
 AGTGACCTCCCAGTATTGTCCACTGATCAAGATGAAAGTTTGCTGTTATTTGAAGATGTTAATACAGAGT
 TCGACGATGTGAGTCTTTCACCCTTGAACAGTAAAAGCGAATCTTACCTGTGTGACAGACAAAAGTCTAT
 TAGTGAAACGCTCTGGTCTCTCAGTCTTAATTTCTGATGAACCTTTGTTGGACAATAATTCTGAAGTCA
 CAAGATCAAAATCACCCGTGATGCTAATAGTTTTAAATCTCGTGATCAGAGAGGTGTACAGGAAGAAAAAG
 TGAAGAATCATGAGGATATTTTGTGCTCTAGGGATTTATTTTCTGTTACCTTTGATTTAGGATTCTG
 TAGTCCAGATTCTGATGATGAAATATTGGAACATACATCAGATAGCAATAGACCTCTAGATGATCTATAT
 GGAAGGTATTTGGAAATTAAGGAGATAAGTGATGCAAAATTATGTTTCGAATCAAGCACTAATACCAAGAG
 ATCATAGTAAAAATTTTACTAGTGGAACTGTTATTATCCCATCAAATGAAGATATGCAGAATCCAAATTA
 TGTACATTTGCCACTGAGTGCAGCAAAAAATGAAGAATTGTTATCTCCTGGTTATTCTCAGTTTTCTTTA
 CCAGTGCAAAAAAAGTTATGAGTACACCCTCTCTAAATCAAACACATTGAACTCATTTTCTAAGATAA
 GAAAGGAAATACTTAAGACACCAGATTCTAGTAAGGAAAAAGTAAACCTACAAAGATTCAAAGAAGCATT
 GAATTCAACTTTTGATTATTCAGAATTTTCTCTAGAAAAAGTCTAAAAGCAGTGGTCCAATGTATCTGCAT
 AAATCCTGTCTATTCTGTTGAAGATGGACAATTATTAACAAGTAACGAAAGTGAAGATGACGAGATTTTCC
 GAAGAAAAGTTAAAGAGCAAAAGGAAATGTTTTAACTCTCCTGAGGATCAGAAAAATAGTGAAGTTGA
 TTCTCCACTTCATGCTGTCAAAAGCGCAGATTTCTATAAACAGATCAGAATTATCATCTAGTGATGAG
 AGTGAGAATTTTCCAAACCATGTTTACAATTAGAAGACTTCAAGGTTTGTAAACGGGAATGCCAGAAGAG
 GCATCAAAGTCCAAAGAGACAGAGTCACTTAAAGCATGTAGCTAGGAAGTTTTTAGATGATGAAGCAGA
 ACTTTCTGAAGAAGATGCAGAATATGTTTCATCAGATGAAAATGATGAGTCAGAAAATGAACAAGATTCC
 TCATTACTTGACTTTTTAAATGATGAACTCACTTTACAGGCTATAAATGATTCTGAAATGAGAGCTA
 TTTACATGAAATCTTTGCGTAGTCCAATGATGAACAATAAGTACAAAATGATTCATAAGACACATAAAAA
 CATAAACATTTTCTCGCAGATTCTGAACAAGATGAAACCTATTTAGAGGATAGTTTTTGTGTTGATGAA
 GAGGAGTCTTGCAAGGCCAATCAAGTGAAGAAGAAGTTTGTGTTGATTTAACTTAATAACTGATGATT
 GCTTTGCAAAATAGTAAAAAGTATAAACTCGACGTGCAGTAATGCTAAAAGAAATGATGGAACAAAATTTG
 TGCACATTCAAAAAGAAATTATCCAGAATTATTTTACCAGATGATTCAAGTGAGGAGGAGAACAATGTA
 AATGATAAAGAGAATCTAATATTGCGGTTAACCAAGCACTGTTAAGAAGAACAACAACAGGACCATT

GTTTAAATTCAGTGCCTTCTGGATCTTCTGCGCAGTCCAAGGTGCGTTCTACTCCAAGAGTTAATCCATT
 AGCAAAGCAGAGCAAACAGACATCGCTGAATTTAAAGGATACAATTTCCGAAGTCTCAGACTTCAAACCT
 CAGAATCATAATGAAGTCCAGTCTACCACACCACCTTCACTACTGTTGATTACAGAAAGACTGTAGAA
 AATTTCCAGTTCACAGAAGGATGGTAGTGCTTTGGAGGATTCTAGCACTTCAGGGGCATCCTGTTCCAA
 GTCAAGACCACATTTAGCTGGGACACATACTTCTCTTAGACTTCCGCAGGAAGGAAAAGGAACCTGTATT
 CTTGTAGGTGGTCATGAAATCACTTCTGGATTAGAAGTAATTTCTTCCCTAAGAGCAATTCATGGGTTGC
 AAGTAGAAGTTTGTCTCTTAATGGCTGTGATTACATCGTGAGTAATCGCATGGTGGAAAGGAGGTC
 TCAATCTGAGATGTTAAATAGTGTCAATAAGAACAAGTTCATTGAGCAGATCCAGCACCTGCAGAGTATG
 TTTGAAAAGATATGTGTGATTGTGAAAAGGACAGAGAAAAAACAGGAGACACATCAAGGATGTTTAGGA
 GAACAAAGAGCTATGACAGCCTGCTGACTACCTTAATTGGCGCTGGAATCCGAATCTTTTCAGTTCCTG
 CCAAGAAGAAACCGCAGATTTGCTAAAGGAAGTGTCTTTAGTGGAACAAAGAAAGAAATGTTGGTATTCAT
 GTTCCAACAGTGGTGAATAGTAATAAAAGTGAGGCACTCCAGTTTTATTTAAGTATCCCAATATAAGTT
 ATATACTGCATTAAATATGTGTCACCAAGTTTTATCTGTGAAAAGGATGGCTAACAGCTCACTTCAAGA
 AATCTCCATGTATGCACAAGTAACATCAGAAGGCTGAGGAGATCTATAGATATATTCATATGTATTT
 GACATACAAATGTTACCAATGATCTTAACCAAGATAGACTGAAATCTGATATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

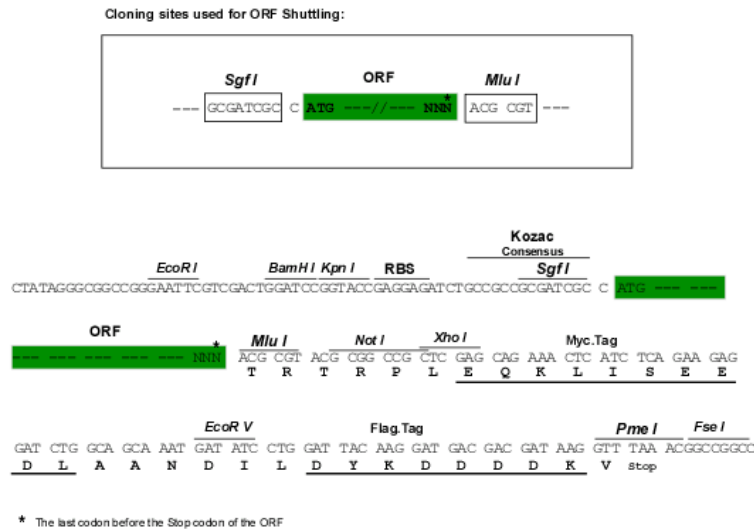
Protein Sequence: >RC211791 representing NM_020937
 Red=Cloning site Green=Tags(s)

MSGQRQLFQTWGSSISRSSGTPGSSGTERPQSPGSSKAPLPAAAEAQLESDDVLLVAAYEAERQLCL
 ENGGFCTSAGALWIYPTNCPVRDYQLHISRAALFCNTLVCLPTGLGKTFIAAVVMYNYRWFPSGKVVMF
 APTKPLVTQQIEACYQVMGIPQSHMAEMTGSTQASTRKEIWCSKRVLFLTPQVMVNDLSRGACPAAEIKC
 LVIDEAHKALGNYAYCQVVREL VKYTNHFRILALSATPGSDIKAVQQVITNLLIGQIELRSESDPDILTY
 SHERKVEKLIVPLGEELAAIQKTYIQILESFAARSLIQRNVLMRDIPNLTKYQIILARDQFRKNPSPNIV
 GIQQGIIEGEFAICISLYHGYELLQQMGMRSLYFFLCGIMDGTGKMRSKNELGRNEDFMKLYNHLECMF
 ARTRSTSANGISAIQQGDKNKKFVYSHPKLKKLEEVVIEHFKSWNAENTTEKKRDETVMIFSSFRDSVQ
 EIAEMLSQHQPIIRVMTFVGHASGKSTKGTQKEQLEVVKQFRDGGYNTLVSTCVGEEGLDIGEVDLIIC
 FDSQKSPIRLVQRMGRTGRKRQGRIVIIILSEGREERIYNQSQSNKRSIYKAISSNRQVLHFYQSRPMVP
 DGINPKLHKMFITHGVYEPEKPSRNLQRKSSIFS YRDGMRQSSLLKDWFLSEEFKLNRLYRLRDSDEI
 KEITLPQVQFSSLQNEENKPAQESTTGIHQLSLSEWRLWQDHPLPTHQVDHSDRCRHFIGLQMIEGMRH
 EEEGCSYELEVESYLQMEDVTSTFIAPRNESSNLA SDTFITHKKSSF IKNINQSSSSSVIESDEECAEIV
 KQTHIKPTKIVSLKKKVSKEIKKDQLKKENNHGIIDSVDNDRNSTVENIFQEDLPNDKRTSDTDEIAATC
 TINENVIKEPCVLLTECQFTNKSTSSLAGNVLD SGYNSFNDEKSVSSNLF PFEEELYIVRTDDQFYNCH
 SLTKEVLANVERFLSYSPPLSGLSDLEYEIAKGTALENLLFLPCAHLRSDKCTCLLSHAVNSQQNLE
 LNSLKCNINYPSEKSLYDIPNDNISDEPSLCD CDVHKHNQENLVPNNRVQIHRSPAQNLVGENNHDVDN
 SDLPVLSTDQDESLLLFEDVNTFDDVSL SPLNSKSESLPVSDKTAISETPLVSQFLISDELLLDNNSEL
 QQQITRDANSFKSRDQRGVQEEKVKNHEDIFDCSRDLFSVTFDLGFCSPDSDDEILEHTSDSNRPLDDL
 YGRYLEIKEISDANYVSNQALIPRDHKNFTSGTVIIPSNEDMQNPNYVHLPLSAAKNEELLSPGYSQFSL
 PVQKKVMSTPLSKSNTLNSFSKIRKEILKTPDSSKEKVNLRKFKEALNSTFDYSEFSLEKSKSSGPMYHL
 KSCHSVEDGQLLTSNESEDDEIFRRKVKRAKGNVLSNPEDQKNSEVDSPHLHAVKKRRFPINRSELSSDE
 SENFPKPCSQLEDFKVCNGNARRGIKVPKRQSHLKHVARKFLDDEAELSEEDAEYVSSDENDESENEQDS
 SLLDFLNDETQLSQAINDSEMRAIYMKSLRSPMMNNKYKMIHKTHKNINIFSQIPEQDETYLEDSCVDE
 EESCKGQSSEEEVCVDFNLITDDCFANSKKYKTRRAVMLKEMMEQNCAHSKKLSRIILPDDSSSEENNV
 NDKRESNIAVNPSTVKKNKQDHLNSVPSGSSAQSKVRSTPRVNPLAKQSKQTSNLKDTISEVSDFKP
 QNHNEVQSTTPPFTTVDSQKDCRKFPVPQKDGSALSDSSTSGASCSKSRPHLAGHTSLRLPQEGKGTCTI
 LVGGHEITSGLEVISSLRAIHGLQVEVCPLNGCDYIVSNRMVVERRSQSEMLNSVNKNKFI EQIQHLQSM
 FERICVIVEKDREKTGDTSRMFRRTKSYDSLLTTLIGAGIRILFSSCQEETADLLKELSLVEQRKNVGIH
 VPTVVNSNKSEALQFYLSIPNISYITALNMCHQFSSVKRMANSSLQEISMYAQVTHQKAEIYRYIHYVF
 DIQMLPNDLNQDRLKSDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8025_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_020937

ORF Size: 6144 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020937.4](#)

RefSeq Size: 7143 bp

RefSeq ORF: 6147 bp

Locus ID: 57697

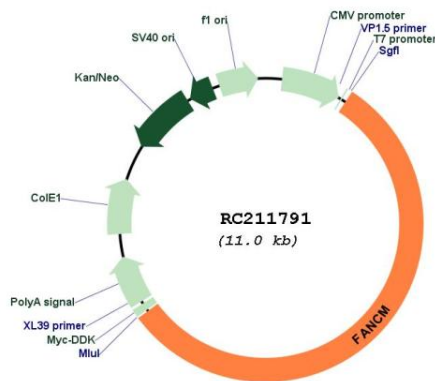
UniProt ID: [Q8IYD8](#)

Cytogenetics: 14q21.2

MW: 232 kDa

Gene Summary: The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCI (also called BRIP1), FANCL, FANCM and FANCN (also called PALB2). The previously defined group FANCH is the same as FANCA. Fanconi anemia is a genetically heterogeneous recessive disorder characterized by cytogenetic instability, hypersensitivity to DNA crosslinking agents, increased chromosomal breakage, and defective DNA repair. The members of the Fanconi anemia complementation group do not share sequence similarity; they are related by their assembly into a common nuclear protein complex. This gene encodes the protein for complementation group M. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Product images:



Circular map for RC211791