

Product datasheet for SC304869

FANCM (NM_020937) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FANCM (NM_020937) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | FANCM |
| Synonyms: | FAAP250; KIAA1596; POF15; SPGF28 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC304869 representing NM_020937. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCGGACGGCAAAGAACGCTTTTTTCAGACGTGGGGCTCAAGTATCTCCCGATCATCTGGGACTCCG
GGTTGCAGCTCCGGAAGTGAAGCAGCTCAGAGCCCTGGCAGCTCCAAGGCGCCTTTGCCAGCAGCAGCG
GAGGCTCAGCTGGAGTCGGACGATGATGTGTGCTTGTGCGGGCGTACGAGGCTGAGCGGCAAGTTGTGT
CTAGAGAAATGGCGGGTCTGCACCTCCGCGGGCGCCCTGTGGATTTACCTACCAATTGCCAGTGCCG
GACTACCAGCTGCACATTTCCCGGGCTGCTCTGTTTTGCAATACGCTGGTGTGTCTGCCCTACCGGACTG
GGAAAGACCTTTATTGCCCGCTGGTCAATGACAAATTTCTACCGCTGGTCCCTTCAGGAAAGGTGGTC
TTCATGGCCCAACGAAACCTTGGTGACACAGCAGATCGAGGCTTGTACCAGGTGATGGGTATCCCG
CAATCCCACATGGCCGAAATGACAGGGTCTACACAAGCTTCCACCAGGAAGGAAATATGGTGCAGTAAG
AGAGTGCTTTTTCTTACACCTCAGGTCATGGTAAATGACCTTTCTAGAGGAGCTTGTCCCCTGTGAA
ATAAAGTGTTTAGTTATTGATGAAGTCAAAAGCTCTCGGAAATATGCTTATTGCCAGTTGTAAGA
GAACTAGTCAAATATACAAATCACTTTAGAACTTTGGCTTAAGTGCCACACCAGGTAGTGATATAAAG
GCTGTGCAACAAGTTATTACTAACCTGCTAATTGGGCAGATAGAGCTTCGTTCTGAAGATTCTCCAGAT
ATTTTGACATATTCTCATGAAAGAAAAGTTGAAAAGCTTATTGTTCCGCTTGGTGAAGAAGTTGCAGCC
ATCCAAAAGACCTATATCCAGATTTTGGAAATCATTGCTGTTTATTGATTGAGGAAATGTTTGGATG
AGAAGGGATATCCCAAATCTAACAAAATATCAGATAATTCTGGCAAGAGATCAGTTTAGGAAAAACCCA
TCTCCGAATATTGTGGGAATACAACAAGGCATAATCGAGGGAGAGTTTGTATTTGTATTAGTTTATAT
CATGGTTATGAATTATTGCAGCAAATGGGAATGAGATCATTATATTTCTCCTTTGTGGAATTATGGAT
GGAAGTAAAGGGATGACACGGTCAAAAAATGAACTTGGCCGAAATGAAGACTTCAAGAACTCTATAAT
CATCTAGAGTGTATGTTTGCACGTACACGTAGTACTTCAGCAAATGGTATTTCTGCTATCCAACAAGGA
GATAAAAAATAAAAAATTTGTTTATAGTCATCCAAAGTTAAAGAAATAGAAGAAGTTGTAATTGAACAC
TTCAAGTCATGGAATGCTGAAAACACTACTGAAAAGAAACGTGATGAGACCCGAGTTATGATCTTCTCT
TCATTTTCGAGATAGTGTCAAGAAATTGCAGAAATGCTTTACAGCATCAGCCAATTATTAGAGTAATG
```



[View online »](#)

ACTTTTGTGCGCCATGCCTCAGGAAAAGCACGAAGGGTTTTACCCAGAAGGAGCAACTGGAGGTAGTG
AAACAGTTTCGTGACGGTGGTTACAACACGCTGGTTTCTACCTGTGTGGGTGAAGAAGGTTTGGATATA
GGAGAAGTTGATCTTATAATATGTTTTGATTCCCAAGAAGGCCAATTCGTCTTGTACAACGAATGGGT
AGAAGTGGCCGTAACAGTCAAGGCAGGATAGTTATTATCCTTTCTGAAGGACGAGAGGAACGTATTTAT
AATCAGAGTCAGTCCAACAAAAGAAGTATATAAAGCTATTTCAAGTAAACAGGCAGGTCCTTCATTTT
TACCAAAGAAGTCCACGAATGGTTCCTGATGGAATCAACCCAAAATTACACAAAATGTTCCATCACACAT
GGTGTCTATGAACCAGAGAAGCCTTCTCGGAACCTGCAGCGAAAAGTCATCTATCTTTTCCATATAGGGAT
GGAATGAGGCAAAGTAGCCTAAAGAAAGATTGGTTCTTATCAGAAGAAGAATTTAAATTATGGAACAGA
CTTTATAGATTAAGGGACAGTGATGAAATTAAGAGATAACATTGCCTCAAGTTCAGTTTTCTTCTTTA
CAAAATGAGGAAAACAAACCAGCTCAAGAATCAACCCTGGAATTCATCAACTCTCTCTCTGAAATGG
AGACTGTGGCAAGATCATCCTTGCCTACACATCAAGTTGATCACTCAGATCGATGCCGCCATTTTATA
GGCCTTATGCAATGATAGAGGGAATGAGACACGAAGAGGGAGAATGCAGCTATGAATTGGAAGTTGAA
TCTTATTTACAAATGGAAGATGTTACCTCAACATTTATTGCTCCAGGAATGAATCTAATAATCTTGCC
AGTGACACCTTTACTCACAAGAAATCGTCATTTATAAAGAACATAAATCAAGGCAGTTCATCTCA
GTGATAGAATCTGATGAAGAATGTGCTGAAATGTTAAACAACTCATATCAAACCTACTAAAATGTT
TCTTTAAAGAAAAAGTGCTAAAGAAAATAAAAAAGATCAGCTTAAAAAGAAAATAATCACGGTATT
ATAGATTCTGTAGATAATGACAGAAATCCACTGTTGAAAATATTTTTCAAGAAGACCTACCAAATGAT
AAAAGGACATCAGATACAGATGAAATGCTGCCACATGTACTATTAATGAAAATGTTATTAAGAACCG
TGTGTGTTATTAACAGAGTGTGAGTTTACAAATAAATCCACTAGTTCACTTGTGGAATGTTTTAGAT
TCTGGTTATAACAGTTTCAATGATGAAAATCTGTTTCATCTAATTTTCTTCCATTCGAAGAAGAG
CTTTATATTGTTAGAAGATGACCAATTTTATAATTGCTACTCATTGACAAAAGAGGACTAGCTAAT
GTAGAGAGATTTTTATCTTATTCTCCTCGCCTCTCAGTGGACTCTCAGACTTGGAAATGAAATGCACC
AAGGGTACTGCCTTGAGAATTTGCTTTTCTTACCCTGTGCAGAGCATTACGAAGTGAATAATGCACC
TGTTGTGCTGCACATTCAGCTGTGAATTCACACAGAATTTAGAATTGAATTCACTTAAATGTATAAAT
TATCCATCTGAAAAAGTTGCCTTTATGATATACCTAATGATAATATTTCTGATGAGCCAAGTCTGT
GACTGTGATGTACATAAACATAATCAAAATGAAAATTTAGTACCTAACAAATCGTGTTCAAAATACACAGA
AGCCCTGCACAGAATTTAGTTGGAGAGAACAATCATGATGTTGATAACAGTGACCTCCAGTATTGTCC
ACTGATCAAGATGAAAGTTTGTGTTATTTGAAGATGTTAATACAGAGTTCGACGATGTGAGTCTTTCA
CCCTTGAACAGTAAAAGCGAATCTTACCTGTGCAGACAAAAGTCTATTAGTGAACCGCTCTGGTC
TCTCAGTCTTAAATTTCTGATGAACTTTTGTGGACAATAATTCTGAACTCCAAGATCAAATCACCCGT
GATGCTAATAGTTTTAAATCTCGTGATCAGAGAGGTGTACAGGAAGAAAAGTGAAGAATCATGAGGAT
ATTTTTGATTGCTCTAGGGATTTATTTCTGTTACCTTTGATTTAGGATTCTGTAGTCCAGATTCTGAT
GATGAAATATTGGAACATACATCAGATAGCAATAGACCTTAGATGATCTATATGGAAGGTTATTTGAA
ATTAAGGAGATAAGTGTGCAAATTTATGTTTCCAATCAAGCACTAATACCAAGAGATCATAGTAAAAAT
TTTACTAGTGGAACTGTTATTAATCCATCAAAATGAAGATATGCAGAAATCCAAATTTATGTACATTTGCCA
CTGAGTGCAGCAAAAAATGAAGAATGTTATCTCCTGGTTATTCTCAGTTTTCTTACCAGTGCAAAAA
AAAGTTATGAGTACCCACTCTAAATCAAACACATTGAACTCATTTTCTAAGATAAGAAAAGGAAATA
CTTAAGACACCAGATTCTAGTAAGGAAAAAGTAAACCTACAAAGATTCAAAGAAGCATTGAATCAACT
TTTGATTATTCAGAATTTCTCTAGAAAAGTCTAAAAGCAGTGGTCCAATGTATCTGCATAAATCCTGT
CATTCTGTTGAAGATGGACAATTTATTAACAAGTAAACGAAAGTGAAGATGACGAGATTTTCCGAAGAAAA
GTTAAAAGAGCAAAAGGAAATGTTTTAAACTCTCCTGAGGATCAGAAAAATAGTGAAGTTGATTCTCCA
CTTCATGCTGTCAAAAAGCGCAGATTTCTATAAACAGATCAGAATTATCATCTAGTGTGAGAGTGAG
AATTTTCCCAAACCATGTTCAACAATTAGAAGACTTCAAGGTTTGTAAACGGGAATGCCAGAAGAGGCATC
AAAGTCCCAAAGAGACAGAGTCACTTAAAGCATGTAGCTAGGAAGTTTTTATGATGATGAAGCAGAATCTT
TCTGAAGAAGATGCAGAATATGTTTCATCAGATGAAAATGATGAGTGCAGAAAATGAACAAGATCTCTCA
TTACTTGACTTTTTAAATGATGAACTCAACTTTCACAGGCTATAAATGATTCTGAAATGAGAGCTATT
TACATGAAATCTTTGCGTAGTCCAATGATGAACAATAAGTACAAAATGATTCATAAGACACATAAAAAC
ATAAACATTTTCTCGCAGATTCCTGAACAAGATGAAACCTATTTAGAGGATAGTTTTTGTGTTGATGAA
GAGGAGTCTTGAAGGCCAATCAAGTGAAGAAGAAGTTTGTGTTGATTTAACTTAATAACTGATGAT
TGCTTTGCAAAATAGTAAAAAGTATAAACTCGACGTGCAGTAAATGCTAAAAGAAATGATGGAACAAAAT
TGTGCACATTCAAAAAGAAATTAATCCAGAATTTTACCAGATGATTCAGTGAAGGAGGAGAACAAT
GTAATGATAAAAAGAAATCTAATATTGCGGTTAACCCAAGCACTGTTAAGAAGAACAACAACAGGAC

CATTGTTTAAATTCAGTGCCTTCTGGATCTTCTGCGCAGTCCAAGGTGCGTTCTACTCCAAGAGTTAAT
 CCATTAGCAAAGCAGAGCAAACAGACATCGCTGAATTTAAAGGATACAATTTCCGAAGTCTCAGACTTC
 AAACCTCAGAATCATAATGAAGTCCAGTCTACCACACCACCTTCACTACTGTTGATTCACAGAAAGAC
 TGTAGAAAATTTCCAGTTCACAGAAGGATGGTAGTGCTTTGGAGGATTCTAGCACTTCAGGGGCATCC
 TGTTCCAAGTCAAGACCACATTTAGCTGGGACACATACTTCTCTTAGACTTCCGCAGGAAGGAAAAGGA
 ACCTGTATTCTGTAGGTGGTCATGAAATCACTTCTGGATTAGAAGTAATTTCTCCCTAAGAGCAATT
 CATGGGTTGCAAGTAGAAGTTTGCCTCTTAATGGCTGTGATTACATCGTAGTAATCGCATGGTGGTG
 GAAAGGAGGTCTCAATCTGAGATGTTAAATAGTGTCAATAAGAACAAGTTCATTGAGCAGATCCAGCAC
 CTGCAGAGTATGTTTGAAGAATATGTGTGATTGTGAAAAGGACAGAGAAAAACAGGAGACACATCA
 AGGATGTTTAGGAGAACAAGAGCTATGACAGCCTGCTGACTACCTTAATTGGCGCTGGAATCCGAATT
 CTTTTAGTTCCTGCCAAGAAGAAACCGCAGATTTGCTAAAGGAAGTGTCTTTAGTGAACAAAGAAAG
 AATGTTGGTATTCATGTTCCAACAGTGGTAATAGTAATAAAAGTGAGGCACTCCAGTTTTATTTAAGT
 ATTCCCAATATAAGTTATATAACTGCATTAATATGTGCACCAGTTTTTCATCTGTGAAAAGGATGGCT
 AACAGCTCACTTCAAGAAATCTCCATGTATGCACAAGTAACTCATCAGAAGGCTGAGGAGATCTATAGA
 TATATTCATATGATTTGACATACAAATGTTACCAAATGATCTTAACCAAGATAGACTGAAATCTGAT
 ATATAA
 ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

| | |
|-------------------------------|---|
| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_020937 |
| Insert Size: | 6147 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | <u>NM_020937.3</u> |
| RefSeq Size: | 7138 bp |
| RefSeq ORF: | 6147 bp |
| Locus ID: | 57697 |
| UniProt ID: | <u>Q8IYD8</u> |

Cytogenetics: 14q21.2

MW: 232.2 kDa

Gene Summary: The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCJ (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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).