

Product datasheet for SC319029

FANCI (NM_001113378) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: FANCI (NM_001113378) Human Untagged Clone
Tag: Tag Free
Symbol: FANCI
Synonyms: KIAA1794
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001113378 edited
 GTTGAGCGGGCTTTTTGGAAGTTTGTGGCGGAGTTCTGTGATATGAGCAACAATGGACCA
 GAAGATTTTATCTCTAGCAGCAGAAAAACAGCAGACAAACTGCAAGAATTTCTTCAAAC
 CCTGAGAGAAGGTGATTTGACTAATCTCCTTCAGAATCAAGCAGTGAAAGGAAAAGTTGC
 TGGAGCACTCCTGAGAGCCATCTTCAAAGTTCCCCCTGCTCTGAGGAAGCTGGAACACT
 TAGGAGACGTAAGATATACACTTGTGTATCCAGTTGGTGAATCGGGGATTTGCAGAA
 AGAAATAGCGTCTGAGATCATAGGACTGATGCTGGAGGCTCACCATTTTCCAGGACC
 ATTATTGGTTGAATTAGCCAATGAGTTTATTAGTGCTGTCAGAGAAGGCAGCCTAGTGAA
 TGGAAAATCTTTGGAGTTACTACCTATCATTCTCACTGCCCTGGCTACGAAAAAGGAAAA
 TCTGGCTTATGAAAAAGGTGACTGAGTGGGAAGAATGTAAGAAACAGTTGATTAACAC
 CCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAATCCAACCTCACCTCCATGTTCAAGGA
 TGTCCTCTGACTGCAGAAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCATGTTCTC
 CAAGATGAATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCTCCTCCAA
 GGAAGCAGAAAGAGTGTTTTGGAAAGGAATCATAGCCTTCTTCACTGACTAGATAAGCA
 GCACAATGAGGAACAGAGTGGTGACGAGCTATTGGATGTTGTCAGTGTGCCATCAGGTGA
 ACTTCGTCATGTGGAAGGCACCATTTTCTACACATTGTGTTGGCCATCAAATTGGACTA
 TGAAGTCCCTTCAGCATTGCTCTTCTTCTGTCTGTAACAAGAATACAAAGATTTCA
 GGACCAAGGTGCTTGATCTTTTAAAGACTTCGGTTGTAAGAGCTTTAAGGATCTTCAACT
 CCTCCAAGGCTCAAAATTTCTTCAAGAACTAGTTCCTCATAGATCTTATGTTTCAACCAT
 GATCTTGGAAAGTGTGAAGAATAGCGTTTATAGCTGGGACCATGTTACTCAGGGCCTCGT
 AGAACTTGGTTTCATTTTATGATGGATTCATATGGGCCAAAGAAGGTTCTTGTGAAAAAC
 TATTGAAACCAGCCCAAGTCTTTCTAGAATGCCAAACCAGCATGCATGTAAGCTCGGAGC
 TAATATCCTGTTGAAACTTTTAAAGATCCATGAGATGATCAGACAAGAAATTTGGAGCA
 GGTCTCAACAGGGTTGTTACCAGAGCATCTTCTCCCATCAGTCATTTCTTAGACCTGCT
 TTCAAATATCGTCATGTATGCACCCTTAGTTCTTCAAAGTTGTTCTTCAAAGTACAGCA
 AGCTTTTGACTATTTGCTCTTTCTGCCCTTCAGACTGTACAAAGGCTGCTTAAGGCAGT



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GCAGCCCCTTCTCAAAGTCAGCATGTCAATGAGAGACTGCTTGATACTTGTCTTCGGAA
 AGCTATGTTTGCCAACCAGCTTGATGCCGAAAATCTGCAGTTGCTGGGTTTTGCTGCT
 CCTGAAGAACTTTAAAGTTTTAGGCAGCCTGTCATCCTCTCAGTGCAGTCAGTCTCTCAG
 TGTGAGTCAAGTTCATGTGGATGTTACAGCCATTACAATTCTGTGCGCAATGAAACTTT
 TTGCTTGAGATCATGGATAGTTTGAGGAGATGCTTAAGCCAGCAAGCTGATGTTGCGAT
 CATGCTTTATGAGGGTTTTATGATGTTCTTGAAGGAACTCTCAGCTGGCTAATTGAGT
 CATGCAAACTCTGCTCTCACAGTTAAAACAGTTCTATGAGCCAAAACCTGATCTGCTGCC
 TCCTCTGAAATTAGAAGCTTGATTCTGACCCAAGGAGATAAGATCTCTCTACAAGAACC
 ACTGGATTATCTGCTGTGTTGATTTCAGCATTGTTTGGCCTGGTATAAGAATACAGTCAT
 ACCCTTACAGCAGGGAGAGGAGGAAGAGGAGGAGGAAGAGGCATTCTACGAAGACCTAGA
 TGATATATTGGAGTCCACTACTAATAGAATGATTAAGAGTGAGCTGGAAGACTTTGAACT
 GGATAAATCAGCAGATTTTTCTCAGAGCACCAGTATTGGCATAAAAAATAATATCTGTGC
 TTTTCTGTGATGGGAGTTTGTGAGTTTTAATAGAATACAATTTCTCCATAAGTAGTTT
 CAGTAAGAATAGGTTTGGAGCATTCTGAGCTTATTTATGTGTTACAAAAAATCTCTGA
 CATTCTTAATGAAAAAGCGGGTAAAGCCAAAACAAAATGGCCAACAAGCAAGTATAG
 TCTTTTGTCCATGAAATTTGTGTCCAGTCTTCTACTGCTTTTTTCAGGGATAGTATCCA
 AAGCCACCAAGAAAGCCTTTCTGTTCTCAGGTCCAGCAATGAGTTTATGGCTATGCAGT
 GAATGTAGCTCTGCAGAAAGTACAGCAGCTAAAGGAAACAGGGCATGTGAGTGGCCCTGA
 TGGCCAAAACCCAGAAAAGATCTTTCAGAACCTCTGTGACATAACTCGAGTCTTGCTATG
 GAGATACACTTCAATTCCTACTTCTCAGTGGAGAGTTCGGGAAAAGAGAAAAGGAAAAGAG
 CATCTCACTGCTGTGCTTGGAGGTTTTACAGAAAATATTCAGTGTGTCACACAGTTCTA
 TCAGCCCAAGATTCAGCAGTTTTCTCAGAGCTCTGGATGTCACAGATAAGGAAGGAGAAGA
 GAGAGAAGATGCAGATGTCAGTCACTCAGAGAACAGCATTCCAGATCCGGCAATTTCA
 GAGGTCCTTGTTGAATTTACTTAGCAGTCAAGAGGAAGATTTTAAATAGCAAAGAAGCCCT
 CCTGCTAGTCACGGTTCTTACCAGTTTGTCCAAGTTACTGGAGCCCTCCTCTCCTCAGTT
 TGTGCAGATGTTATCCTGGACATCAAAGATTTGCAAGGAAAACAGCCGGGAGGATGCCTT
 GTTTTGAAGAGCTTGATGAACCTGCTCTTCCAGCTGCATGTTTCGTATAAGAGTCTGT
 CATTCTGCTGCGTACTTGTCCCAGGATATCCACGGGCATCTGGGAGATATAGACCAGGA
 TGTAGAGTGGAGAAAACAAACCACTTTGCAATAGTGAATTTGAGAACGGCTGCCCCAC
 TGTCTGTTTACTTGTCTGAGTCAGGCCGAGAAGTTCTAGAAGAAGTGGACTGGCTAAT
 CACCAAGCTTAAGGGACAAGTGAGCCAAGAAACCTTATCAGAAGAGGCCCTTCTCAGGC
 AACCTACCAATCAGCCTGTTGAGAAAGCTATCATCATGCAACTGGGAACTCTGCTTAC
 ATTTTTCCACGAGCTGGTGCAGACAGCTCTGCCATCAGGCAGCTGTGTGGACACCTTGT
 AAAGGACTTGTGCAAAATGTACACCACACTTACAGCCCTTGTGAGATATTATCTCCAGGT
 GTGTGAGAGCTCCGGAGGAATTCAAAAAATATGGAAAAGCTGGTGAAGCTGTCTGGTTC
 TCATCTGACCCCTGTGTTATTTCTTTCATTTCTTACGTACAGAATAAGAGTAAGAGCCT
 GAACTATACGGGAGAGAAAAGGAGAAAACCTGCTGCCGTTGCCACAGCCATGGCCAGAGT
 TCTTCGGGAAACCAAGCCAATCCCTAACCTCATCTTTGCCATAGAACAGTATGAAAAATT
 TCTCATCCACCTTTCTAAGAAGTCCAAGGTGAACCTGATGCAGCACATGAAGCTCAGCAC
 CTCACGAGACTTCAAGATCAAAGGAAACATCCTAGACATGGTTCTTCGAGAGGATGGTGA
 AGATGAAAATGAAGAGGGCACTGCATCAGAGCATGGGGGACAGAACAAGAACCAGCCAA
 GAAGAAAAGGAAAAAATAAATGAAATGCCTGAGTTAATGTGAAAAAATAA

Restriction Sites:

Please inquire

ACCN:

NM_001113378

Insert Size:

4100 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:

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_001113378.1](#), [NP_001106849.1](#)

RefSeq Size: 4749 bp

RefSeq ORF: 3987 bp

Locus ID: 55215

UniProt ID: [Q9NVI1](#)

Cytogenetics: 15q26.1

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 I. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).