OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC218972

FANCI (NM_018193) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCI (NM_018193) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FANCI
Synonyms:	KIAA1794
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218972 representing NM_018193
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCAGAAGATTTTATCTCTAGCAGCAGAAAAAACAGCAGACAAACTGCAAGAATTTCTTCAAACCC
TGAGAGAAGGTGATTTGACTAATCTCCTTCAGAATCAAGCAGTGAAAGGAAAAGTTGCTGGAGCACTCCT
GAGAGCCATCTTCAAAGGTTCCCCCTGCTCTGAGGAAGCTGGAACACTTAGGAGACGTAAGATATACACT
TGTTGTATCCAGTTGGTGGAATCGGGGGATTTGCAGAAAGAAATAGCGTCTGAGATCATAGGATTACTGA
TGCTGGAGGCTCACCATTTTCCAGGACCATTATTGGTTGAATTAGCCAATGAGTTTATTAGTGCTGTCAG
AGAAGGCAGCCTAGTGAATGGAAAATCTTTGGAGTTACTACCTATCATTCTCACTGCCCTGGCTACGAAA
AAGGAAAATCTGGCTTATGGAAAAGGTGTACTGAGTGGGGAAGAATGTAAGAAACAGTTGATTAACACCC
TGTGTTCTGGCAGGTGGGATCAGCAATATGTAATCCAACTCACCTCCATGTTCAAGGATGTCCCTCTGAC
TGCAGAAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCATGTTCTCCAAGATGAATCTTCAAGAAATA
CCACCTTTGGTCTATCAGCTTCTGGTTCTCTCCTCCAAGGGAAGCAGAAAGAGTGTTTTGGAAGGAATCA
TAGCCTTCTTCAGTGCACTAGATAAGCAGCACAATGAGGAACAGAGTGGTGACGAGCTATTGGATGTTGT
CACTGTGCCATCAGGTGAACTTCGTCATGTGGAAGGCACCATTATTCTACACATTGTGTTTGCCATCAAA
TTGGACTATGAACTAGGCAGAGAACTCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATTCCAATAATA
ACTTAAGTCCCTTCAGCATTGCTCTTCTTCTGTCTGTAACAAGAATACAAAGATTTCAGGACCAGGTGCT
TGATCTTTTAAAGACTTCGGTTGTAAAGAGCTTTAAGGATCTTCAACTCCTCCAAGGCTCAAAATTTCTT
CAGAATCTAGTTCCTCATAGATCTTATGTTTCAACCATGATCTTGGAAGTAGTGAAGAATAGCGTTCATA
GCTGGGACCATGTTACTCAGGGCCTCGTAGAACTTGGTTTCATTTTGATGGATTCATATGGGCCAAAGAA
GGTTCTTGATGGAAAAACTATTGAAACCAGCCCAAGTCTTTCTAGAATGCCAAACCAGCATGCATGTAAG
CTCGGAGCTAATATCCTGTTGGAAACTTTTAAGATCCATGAGATGATCAGACAAGAAATTTTGGAGCAGG
TCCTCAACAGGGTTGTTACCAGAGCATCTTCTCCCATCAGTCATTTCTTAGACCTGCTTTCAAATATCGT
CATGTATGCACCCTTAGTTCTTCAAAGTTGTTCTTCTAAAGTCACAGAAGCTTTTGACTATTTGTCCTTT

View online »

CTGCCCCTTCAGACTGTACAAAGGCTGCTTAAGGCAGTGCAGCCCCTTCTCAAAGTCAGCATGTCAATGA
GAGACTGCTTGATACTTGTCCTTCGGAAAGCTATGTTTGCCAACCAGCTTGATGCCCGAAAATCTGCAGT
TGCTGGGTTTTTGCTGCTCCTGAAGAACTTTAAAGTTTTAGGCAGCCTGTCATCCTCTCAGTGCAGTCAG
TCTCTCAGTGTCAGTCAGGTTCATGTGGATGTTCACAGCCATTACAATTCTGTCGCCAATGAAACTTTTT
GCCTTGAGATCATGGATAGTTTGAGGAGATGCTTAAGCCAGCAAGCTGATGTTCGACTCATGCTTTATGA
GGGGTTTTATGATGTTCTTCGAAGGAACTCTCAGCTGGCTAATTCAGTCATGCAAACTCTGCTCTCACAG
TTAAAACAGTTCTATGAGCCAAAACCTGATCTGCTGCCTCCTCTGAAATTAGAAGCTTGTATTCTGACCC
AAGGAGATAAGATCTCTCTACAAGAACCACTGGATTATCTGCTGTGTTGTATTCAGCATTGTTTGGCCTG
GTATAAGAATACAGTCATACCCTTACAGCAGGGAGAGGAGGAAGAGGAGGAGGAAGAGGCATTCTACGAA
GACCTAGATGATATATTGGAGTCCATTACTAATAGAATGATTAAGAGTGAGCTGGAAGACTTTGAACTGG
ATAAATCAGCAGATTTTTCTCAGAGCACCAGTATTGGCATAAAAAATAATATCTGTGCTTTTCTTGTGAT
GGGAGTTTGTGAGGTTTTAATAGAATACAATTTCTCCATAAGTAGTTTCAGTAAGAATAGGTTTGAGGAC
ATTCTGAGCTTATTTATGTGTTACAAAAAACTCTCTGACATTCTTAATGAAAAAGCGGGTAAAGCCAAAA
CTAAAATGGCCAACAAGACAAGTGATAGTCTTTTGTCCATGAAATTTGTGTCCAGTCTTCTCACTGCTCT
TTTCAGAGTCTTGCTATGGAGATACACTTCAATTCCTACTTCAGTGGAAGAGTCGGGAAAGAAAGAGAAA
GGAAAGAGCATCTCACTGCTGTGCTTGGAGGGTTTACAGAAAATATTCAGTGCTGTGCAACAGTTCTATC
AGCCCAAGATTCAGCAGTTTCTCAGAGCTCTGGATGTCACAGATAAGGAAGGAGAAGAGAGAGAAGATGC
AGATGTCAGTGTCACTCAGAGAACAGCATTCCAGATCCGGCAATTTCAGAGGTCCTTGTTGAATTTACTT
AGCAGTCAAGAGGAAGATTTTAATAGCAAAGAAGCCCTCCTGCTAGTCACGGTTCTTACCAGTTTGTCCA
AGTTACTGGAGCCCTCCTCTCCTCAGTTTGTGCAGATGTTATCCTGGACATCAAAGATTTGCAAGGAAAA
CAGCCGGGAGGATGCCTTGTTTTGCAAGAGCTTGATGAACTTGCTCTTCAGCCTGCATGTTTCGTATAAG
AGTCCTGTCATTCTGCTGCGTGACTTGTCCCAGGATATCCACGGGCATCTGGGAGATATAGACCAGGATG
TAGAGGTGGAGAAAACAAACCACTTTGCAATAGTGAATTTGAGAACGGCTGCCCCCACTGTCTGTTTACT
TGTTCTGAGTCAGGCCGAGAAGGTTCTAGAAGAAGTGGACTGGCTAATCACCAAGCTTAAGGGACAAGTG
AGCCAAGAAACCTTATCAGAAGAGGCCTCTTCTCAGGCAACCCTACCAAATCAGCCTGTTGAGAAAGCTA
TCATCATGCAACTGGGAACTCTGCTTACATTTTTCCACGAGCTGGTGCAGACAGCTCTGCCATCAGGCAG
CTGTGTGGACACCTTGTTAAAGGACTTGTGCAAAATGTACACCACACTTACAGCCCTTGTCAGATATTAT
CTCCAGGTGTGTCAGAGCTCCGGAGGAATTCCAAAAAATATGGAAAAGCTGGTGAAGCTGTCTGGTTCTC
ATCTGACCCCCCTGTGTTATTCTTTCATTTCTTACGTACAGAATAAGAGTAAGAGCCTGAACTATACGGG
AGAGAAAAAGGAGAAACCTGCTGCCGTTGCCACAGCCATGGCCAGAGTTCTTCGGGAAACCAAGCCAATC
CCTAACCTCATCTTTGCCATAGAACAGTATGAAAAATTTCTCATCCACCTTTCTAAGAAGTCCAAGGTGA
ACCTGATGCAGCACATGAAGCTCAGCACCTCACGAGACTTCAAGATCAAAGGAAACATCCTAGACATGGT
TCTTCGAGAGGATGGTGAAGATGAAAATGAAGAGGGCACTGCATCAGAGCATGGGGGACAGAACAAAGAA
CCAGCCAAGAAGAAAAGGAAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218972 representing NM_018193
Red=Cloning site Green=Tags(s)

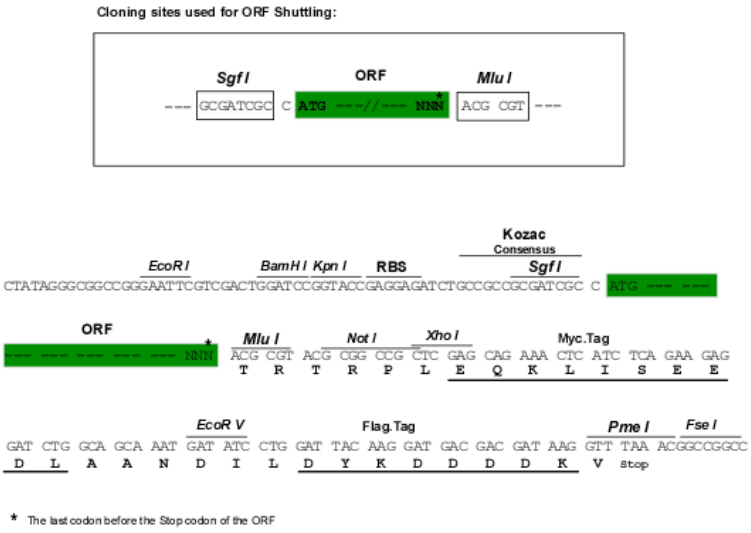
MDQKILSLAAEKTADKLQEFLQTLREGDLTNLLQNQAVKGKVAGALLRAIFKGSPCSEEAGTLRRRKIYT
CCIQLVESGDLQKEIASEIIGLLMLEAHHFPGPLLVELANEFISAVREGSLVNGKSLELLPIILTALATK
KENLAYGKGVLSGEECKKQLINTLCSGRWDQQYVIQLTSMFKDVPLTAEEVEFVVEKALSMFSKMNLQEI
PPLVYQLLVLSSKGSRKSVLEGIIAFFSALDKQHNEEQSGDELLDVVTVPSGELRHVEGTIILHIVFAIK
LDYELGRELVKHLKVGQQGDSNNNLSPFSIALLLSVTRIQRFQDQVLDLLKTSVVKSFKDLQLLQGSKFL
QNLVPHRSYVSTMILEVVKNSVHSWDHVTQGLVELGFILMDSYGPKKVLDGKTIETSPSLSRMPNQHACK
LGANILLETFKIHEMIRQEILEQVLNRVVTRASSPISHFLDLLSNIVMYAPLVLQSCSSKVTEAFDYLSF
LPLQTVQRLLKAVQPLLKVSMSMRDCLILVLRKAMFANQLDARKSAVAGFLLLLKNFKVLGSLSSSQCSQ
SLSVSQVHVDVHSHYNSVANETFCLEIMDSLRRCLSQQADVRLMLYEGFYDVLRRNSQLANSVMQTLLSQ
LKQFYEPKPDLLPPLKLEACILTQGDKISLQEPLDYLLCCIQHCLAWYKNTVIPLQQGEEEEEEEEAFYE
DLDDILESITNRMIKSELEDFELDKSADFSQSTSIGIKNNICAFLVMGVCEVLIEYNFSISSFSKNRFED
ILSLFMCYKKLSDILNEKAGKAKTKMANKTSDSLLSMKFVSSLLTALFRVLLWRYTSIPTSVEESGKKEK
GKSISLLCLEGLQKIFSAVQQFYQPKIQQFLRALDVTDKEGEEREDADVSVTQRTAFQIRQFQRSLLNLL
SSQEEDFNSKEALLLVTVLTSLSKLLEPSSPQFVQMLSWTSKICKENSREDALFCKSLMNLLFSLHVSYK
SPVILLRDLSQDIHGHLGDIDQDVEVEKTNHFAIVNLRTAAPTVCLLVLSQAEKVLEEVDWLITKLKGQV
SQETLSEEASSQATLPNQPVEKAIIMQLGTLLTFFHELVQTALPSGSCVDTLLKDLCKMYTTLTALVRYY
LQVCQSSGGIPKNMEKLVKLSGSHLTPLCYSFISYVQNKSKSLNYTGEKKEKPAAVATAMARVLRETKPI
PNLIFAIEQYEKFLIHLSKKSKVNLMQHMKLSTSRDFKIKGNILDMVLREDGEDENEEGTASEHGGQNKE
PAKKKRKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8022_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

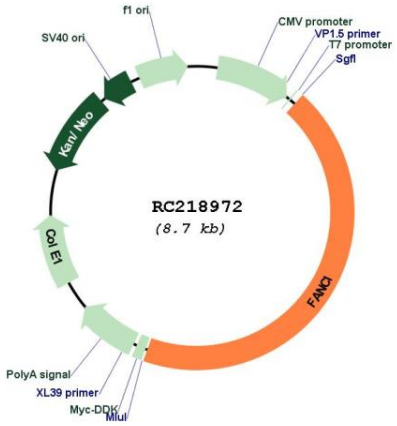


ACCN: NM_018193

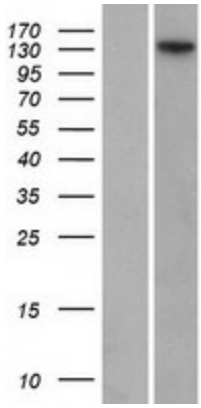
ORF Size: 3804 bp

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_018193.3
RefSeq Size:	4569 bp
RefSeq ORF:	3807 bp
Locus ID:	55215
UniProt ID:	Q9NVI1
Cytogenetics:	15q26.1
MW:	142.4 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 I. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218972



Western blot validation of overexpression lysate (Cat# [LY413238]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218972 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).