

Product datasheet for RC208920

FANCF (NM_022725) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCF (NM_022725) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FANCF
Synonyms:	FAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208920 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAATCCCTTCTGCAGCACCTGGATCGCTTTCCGAGCTTCTGGCGGTCTCAAGCACTACCTACGTCA
GCACCTGGGACCCCGCCACCGTGCGCCGGGCTTGCAGTGGGCGGCTACCTGCGCCACATCCATCGGCG
CTTTGGTCGGCATGGCCCCATTCGCACGGCTCTGGAGCGCGGCTGCACAACCAAGTGGAGGCAAGAGGGC
GGCTTTGGGCGGGTCCAGTTCGGGATTAGCGAACTTCCAGGCCCTCGGTCACTGTGACGTCCTGCTCT
CTCTGCGCCTGCTGGAGAACCGGCCCTCGGGGATGCAGCTCGTTACCACCTGGTGCAGCAACTCTTTCC
CGGCCCGGGCGTCCGGGACGCCGATGAGGAGACTCCAAGAGAGCTGGCCCGCTTGCCCGCCGCGCG
TCTGCGGTGCACATGCTGCGCTTCAATGGCTATAGAGAGAACCCTCCAGGAGGACTCTCTGATGA
AGACCCAGGCGGAGCTGCTGCTGGAGCGTCTGCAGGAGGTGGGAAGGCCGAAGCGGAGCGTCCCGCCAG
GTTTCTCAGCAGCCTGTGGGAGCGCTTGCTCAGAACAACTTCTGAAGGTGATAGCGGTGGCGCTGTTG
CAGCCGCCTTTGTCTCGTCGGCCCAAGAAGAGTTGGAACCCGGCATCCACAAATCACCTGGAGAGGGGA
GCCAAGTGCTAGTCCACTGGCTTCTGGGGAATTCGGAAGTCTTTGCTGCCTTTGTGCGCCCTCCCAGC
CGGGCTTTTGACTTTAGTACTAGCCGCCACCCAGCGCTGTCTCCTGTCTATCTGGGTCTGCTAACAGAC
TGGGTTCAACGTTTGCACATGACCTTTCAGAAAGGCATTTGGGTTGGAAGTGGTCCCAAGATGTGCCCT
GGGAGGATTGCACAATAGGTTTCAAAGCCTCTGTCAGGCCCTCCACCTCTGAAAGATAAAGTTCTAAC
TGCCCTGGAGACCTGTAAGCGCAGGATGGAGATTTTGAAGTACCTGGTCTTAGCATCTGGACAGACCTC
TTATTAGCTCTTCGTAGTGGTGCATTTAGGAAAAGACAAGTTTGGGTCTCAGCGCAGGCCCTCAGTTCTG
TA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208920 protein sequence
Red=Cloning site Green=Tags(s)

MESLLQHLDRFSELLAVSSTTYVSTWDPATVRRALQWARYLRHIHRRFGRHGPIRTALERRLHNQWRQEG
 FGFRGPVPLANFQALGHCDVLLSLRLLLENRALGDAARYHLVQQLFPGPGVRDADEETLQESLARLARRR
 SAVHMLRFNGYRENPNLQEDSLMKTQAEALLERLQEVGKAEARPARFLSSLWERLPQNNFLKVIALL
 QPPLSRRPQEELPQGIHKSPGEGSQVLVHWLLGNSEVFAAFCRALPAGLLTLVTSRHPALSPVYLGLLTD
 WGQRLHYDLQKGIWVGTEAQDVPWEELHNRFSLSLQAPPPLKDKVLTALCTCKAQDGFVPGLSIWTDL
 LLALRSGAFRKRQVLGLSAGLSSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6671_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_022725

ORF Size: 1122 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_022725.4](#)

RefSeq Size: 3309 bp

RefSeq ORF: 1125 bp

Locus ID: 2188

UniProt ID: [Q9NPI8](#)

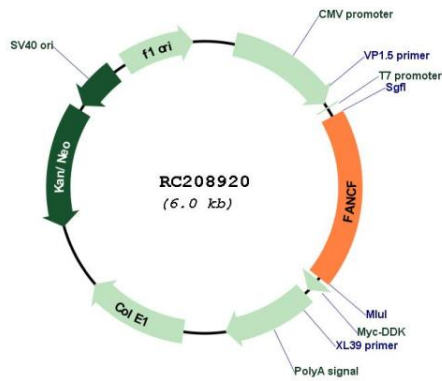
Cytogenetics: 11p14.3

Protein Families: Druggable Genome

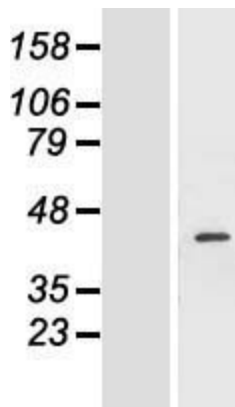
MW: 42.3 kDa

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 F. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208920



Western blot validation of overexpression lysate (Cat# [LY411592]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208920 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).