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Product datasheet for RC204871

FANCC (NM_000136) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCC (NM_000136) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FANCC
Synonyms:	FA3; FAC; FACC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204871 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAAGATTCAGTAGATCTTTCTTGTGATTATCAGTTTTGGATGCAGAAGCTTTCTGTATGGGATC
AGGCTTCCACTTTGGAAACCCAGCAAGACACCTGTCTTCACGTGGCTCAGTTCCAGGAGTTCCTAAGGAA
GATGTATGAAGCCTTGAAAGAGATGGATTCTAATACAGTCATTGAAAGATTCCCCACAATTGGTCAACTG
TTGGCAAAAGCTTGTTGGAATCCTTTTATTTTAGCATATGATGAAAGCCAAAAAATTCTAATATGGTGCT
TATGTTGTCTAATTAACAAAGAACCACAGAATTCTGGACAATCAAAACTTAACTCCTGGATACAGGGTGT
ATTATCTCATATACTTTCAGCACTCAGATTTGATAAAGAAGTTGCTCTTTTCACTCAAGGTCTTGGGTAT
GCACCTATAGATTACTATCCTGGTTTGCTTAAAAATATGGTTTTATCATTAGCGTCTGAACTCAGAGAGA
ATCATCTTAATGGATTTAACACTCAAAGGCGAATGGCTCCCGAGCGAGTGGCGTCCCTGTCACGAGTTTG
TGTCCCACTTATTACCCTGACAGATGTTGACCCCCTGGTGGAGGCTCTCCTCATCTGTCATGGACGTGAA
CCTCAGGAAATCCTCCAGCCAGAGTTCTTTGAGGCTGTAAACGAGGCCATTTTGCTGAAGAAGATTTCTC
TCCCCATGTCAGCTGTAGTCTGCCTCTGGCTTCGGCACCTTCCCAGCCTTGAAAAAGCAATGCTGCATCT
TTTTGAAAAGCTAATCTCCAGTGAGAGAAATTGTCTGAGAAGGATCGAATGCTTTATAAAAGATTCATCG
CTGCCTCAAGCAGCCTGCCACCCTGCCATATTCCGGGTTGTTGATGAGATGTTCAGGTGTGCACTCCTGG
AAACCGATGGGGCCCTGGAAATCATAGCCACTATTCAGGTGTTTACGCAGTGCTTTGTAGAAGCTCTGGA
GAAAGCAAGCAAGCAGCTGCGGTTTGCACTCAAGACCTACTTTCCTTACACTTCTCCATCTCTTGCCATG
GTGCTGCTGCAAGACCCTCAAGATATCCCTCGGGGACACTGGCTCCAGACACTGAAGCATATTTCTGAAC
TGCTCAGAGAAGCAGTTGAAGACCAGACTCATGGGTCCTGCGGAGGTCCCTTTGAGAGCTGGTTCCTGTT
CATTCACTTCGGAGGATGGGCTGAGATGGTGGCAGAGCAATTACTGATGTCGGCAGCCGAACCCCCCACG
GCCCTGCTGTGGCTCTTGGCCTTCTACTACGGCCCCCGTGATGGGAGGCAGCAGAGAGCACAGACTATGG
TCCAGGTGAAGGCCGTGCTGGGCCACCTCCTGGCAATGTCCAGAAGCAGCAGCCTCTCAGCCCAGGACCT
GCAGACGGTAGCAGGACAGGGCACAGACACAGACCTCAGAGCTCCTGCACAACAGCTGATCAGGCACCTT
CTCCTCAACTTCCTGCTCTGGGCTCCTGGAGGCCACACGATCGCCTGGGATGTCATCACCCTGATGGCTC
ACACTGCTGAGATAACTCACGAGATCATTGGCTTTCTTGACCAGACCTTGTACAGATGGAATCGTCTTGG
CATTGAAAGCCCTAGATCAGAAAAACTGGCCCGAGAGCTCCTTAAAGAGCTGCGAACTCAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204871 protein sequence
Red=Cloning site Green=Tags(s)

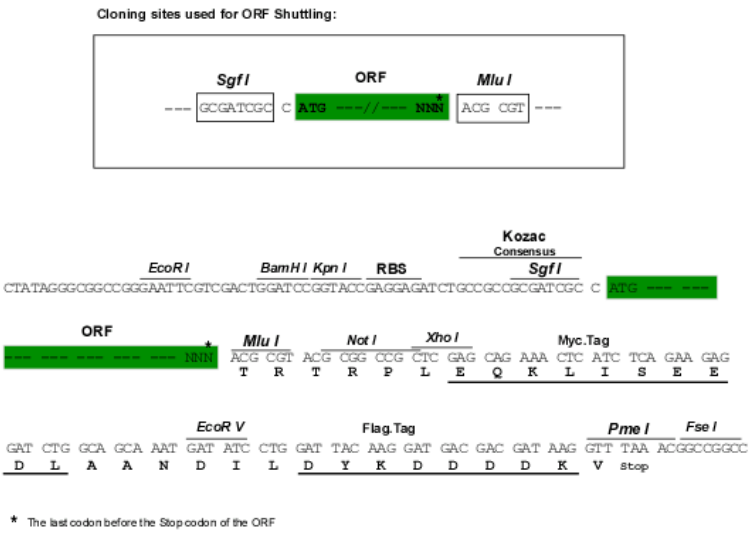
MAQDSVDLSCDYQFWMQKLSVWDQASTLETQQDTCLHVAQFQEFLRKMYEALKEMDSNTVIERFPTIGQL
LAKACWNPFILAYDESQKILIWCLCCLINKEPQNSGQSKLNSWIQGVLSHILSALRFDKEVALFTQGLGY
APIDYYPGLLKNMVLSLASELRENHLNGFNTQRRMAPERVASLSRVCVPLITLTDVDPLVEALLICHGRE
PQEILQPEFFEAVNEAILLKKISLPMSAVVCLWLRHLPSLEKAMLHLFEKLISSERNCLRRIECFIKDSS
LPQAACHPAIFRVVDEMFRCALLETDGALEIIATIQVFTQCFVEALEKASKQLRFALKTYFPYTSPSLAM
VLLQDPQDIPRGHWLQTLKHISELLREAVEDQTHGSCGGPFESWFLFIHFGGWAEMVAEQLLMSAAEPPT
ALLWLLAFYYGPRDGRQQRAQTMVQVKAVLGHLLAMSRSSSLSAQDLQTVAGQGTDTDLRAPAQQLIRHL
LLNFLLWAPGGHTIAWDVITLMAHTAEITHEIIGFLDQTLYRWNRLGIESPRSEKLARELLKELRTQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6238_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000136

ORF Size: 1674 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_000136.3

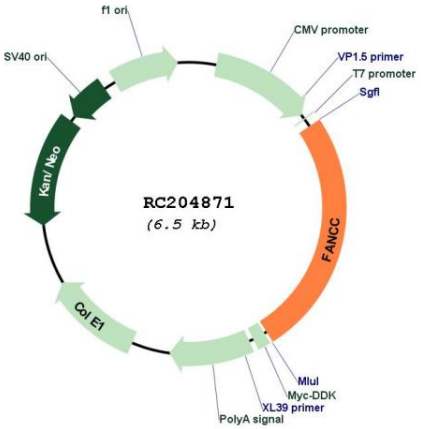
RefSeq Size: 4612 bp

RefSeq ORF: 1677 bp

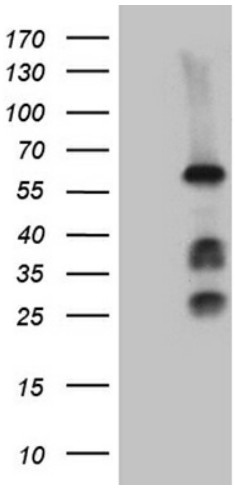
Locus ID: 2176

UniProt ID:	Q00597
Cytogenetics:	9q22.32
Domains:	Fanconi
Protein Families:	Druggable Genome
MW:	63.4 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 C. [provided by RefSeq, Jul 2008]

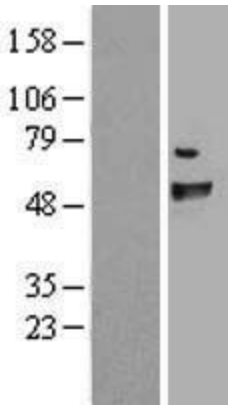
Product images:



Circular map for RC204871



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FANCC (Cat# RC204871, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FANCC (Cat# [TA811744])(1:2000). Positive lysates [LY424908] (100ug) and [LC424908] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424908]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204871 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).