

Product datasheet for **RG234428**

FANCC (NM_001243743) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCC (NM_001243743) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FANCC
Synonyms:	FA3; FAC; FACC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234428 representing NM_001243743
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCAAGATTCAGTAGATCTTTCTGTGATTATCAGTTTTGGATGCAGAAGCTTTCTGTATGGGATC
 AGGCTTCCACTTTGGAAACCCAGCAAGACACCTGTCTTACGTGGCTCAGTTCAGGAGTCCCTAAGGAA
 GATGTATGAAGCCTTGAAGAGATGGATTCTAATACAGTCATTGAAAGATTCCCCACAATTGGTCAACTG
 TTGGCAAAGCTTGTGGAACTCTTTATTTAGCATATGATGAAAGCCAAAAAATTCTAATATGGTGCT
 TATGTTGTCTAATTAACAAAGAACCACAGAATTCTGGACAATCAAACTTAACTCCTGGATACAGGGTGT
 ATTATCTCATATACTTTCAGCACTCAGATTTGATAAAGAAGTTGCTCTTTTCACTCAAGGCTTGGGTAT
 GCACCTATAGATTACTATCCTGGTTTGCTTAAAAATATGGTTTTATCATTAGCGTCTGAAGTCAAGAGAG
 ATCATCTTAATGGATTTAACTCAAGGCGAATGGCTCCCGAGCGAGTGGCGTCCCTGTCACGAGTTTG
 TGTCCTCACTTATTACCCTGACAGATGTTGACCCCTGGTGGAGGCTCTCCTCATCTGTCATGGACGTGAA
 CCTCAGGAAATCCTCCAGCCAGAGTTCTTTGAGGCTGTAACGAGGCCATTTTGCTGAAGAAGATTTCTC
 TCCCCATGTCAGCTGTAGTCTGCCTCTGGCTTCGGCACCTTCCAGCCTTAAAAAGCAATGCTGCATCT
 TTTTAAAAAGCTAATCTCCAGTGAGAGAAATGTCTGAGAAGGATCGAATGCTTTATAAAAGATTCATCG
 CTGCCTCAAGCAGCTGCCACCTGCCATATCCGGGTTGTGATGAGATGTTACAGTGTGCACCTCTGG
 AAACCGATGGGGCCCTGGAAATCATAGCCACTATTCAGGTGTTTACGAGTGTCTTTGTAAGCTCTGGA
 GAAAGCAAGCAAGCAGCTGCGGTTTGCCTCAAGACCTACTTTCTTACACTTCTCCATCTTTGCCATG
 GTGCTGCTGCAAGACCTCAAGATATCCCTCGGGGACACTGGCTCCAGACACTGAAGCATATTTCTGAAC
 TGCTCAGAGAAGCAGTTGAAGACCAGACTCATGGTCTCGGGAGTCCCTTTGAGAGCTGGTTCTGTT
 CATTCACTTCGGAGGATGGGCTGAGATGGTGGCAGAGCAATTACTGATGTCGGCAGCCGAACCCCCACG
 GCCCTGCTGTGGCTCTTGGCCTTCTACTACGGCCCCGTGATGGGAGGCAGCAGAGACACAGACTATGG
 TCCAGGTGAAGGCCGTGCTGGGCCACCTCTGGCAATGTCCAGAAGCAGCAGCCTCTCAGCCAGGACCT
 GCAGACGGTAGCAGGACAGGGCACAGACACAGACCTCAGAGCTCTGCACAACAGCTGATCAGGCACCTT
 CTCCTCAACTTCTGCTCTGGGCTCCTGGAGGCCACAGATCGCCTGGGATGTCATACCCTGATGGCTC
 AACTGCTGAGATAACTCAGGATCATTGGCTTTCTTGACCAGCCTTGTACAGATGGAATCGTCTTGG
 CATTGAAAGCCCTAGATCAGAAAACTGGCCCCGAGAGCTCCTTAAAGAGCTGCGAACTCAAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234428 representing NM_001243743
 Red=Cloning site Green=Tags(s)

MAQDSVDLSCDYQFWMQKLSVWDQASTLETQQDTCLHVAQFQEFLRMYEALKEMDSNTVIERFPTIGQL
 LAKACWNPFIAYDESQKILIWCLCCLINKEPQNSGQSKLNSWIQVLSHILSALRFDKEVALFTQGLGY
 APIDYYPGLLKNMVLSELRNHLNGFNTQRRMAPERVASLSRVCVPLITLTDVDPLVEALLICHGRE
 PQEILQPEFFEAVNEAILLKKISLPMSAVVCLWLRHLPSEKAMHLFEKLISSERNCLRRIECFIKDSS
 LPQAACHPAIFRVVDEMFRCALLETGDALEIIATIQVFTQCFVEALEKASKQLRFALKTYFPYTPSLAM
 VLLQDPQDIPRHWLQTLKHISELLREAVEDQTHGSCGGPFESWFLFIHFGGWAEMVAEQLLMSAAEPPT
 ALLWLLAFYYGPRDGRQQRATMVQKAVLGHLLAMSRSSLSAQDLQTVAGQGTDLRAPAQQLIRHL
 LLNLLWAPGGHTIAWDVITLMAHTAEITHEIIGFLDQTLYRNRLGIESPRSEKLARELLKELRTQV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001243743
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:	<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:	NM_001243743.1 , NP_001230672.1
RefSeq Size:	4554 bp
RefSeq ORF:	1677 bp
Locus ID:	2176
UniProt ID:	Q00597
Cytogenetics:	9q22.32
Protein Families:	Druggable Genome
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]