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 SC120068

FANCA (NM_000135) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCA (NM_000135) Human Untagged Clone
Tag:	Tag Free
Symbol:	FANCA
Synonyms:	FA; FA-H; FA1; FAA; FACA; FAH; FANCH
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000135, the custom clone sequence may differ by one or more nucleotides

ATGTCCGACTCGTGGGTCCCGAACTCCGCCTCGGGCCAGGACCCAGGGGGCCGCCGGAGGGCCTGGGCCG
AGCTGCTGGCGGGAAGGGTCAAGAGGGAAAAATATAATCCTGAAAGGGCACAGAAATTAAAGGAATCAGC
TGTGCGCCTCCTGCGAAGCCATCAGGACCTGAATGCCCTTTTGCTTGAGGTAGAAGGTCCACTGTGTAAA
AAATTGTCTCTCAGCAAAGTGATTGACTGTGACAGTTCTGAGGCCTATGCTAATCATTCTAGTTCATTTA
TAGGCTCTGCTTTGCAGGATCAAGCCTCAAGGCTGGGGGTTCCCGTGGGTATTCTCTCAGCCGGGATGGT
TGCCTCTAGCGTGGGACAGATCTGCACGGCTCCAGCGGAGACCAGTCACCCTGTGCTGCTGACTGTGGAG
CAGAGAAAGAAGCTGTCTTCCCTGTTAGAGTTTGCTCAGTATTTATTGGCACACAGTATGTTCTCCCGTC
TTTCCTTCTGTCAAGAATTATGGAAAATACAGAGTTCTTTGTTGCTTGAAGCGGTGTGGCATCTTCACGT
ACAAGGCATTGTGAGCCTGCAAGAGCTGCTGGAAAGCCATCCCGACATGCATGCTGTGGGATCGTGGCTC
TTCAGGAATCTGTGCTGCCTTTGTGAACAGATGGAAGCATCCTGCCAGCATGCTGACGTCGCCAGGGCCA
TGCTTTCTGATTTTGTTCAAATGTTTGTTTTGAGGGGATTTCAGAAAAACTCAGATCTGAGAAGAACTGT
GGAGCCTGAAAAAATGCCGCAGGTCACGGTTGATGTACTGCAGAGAATGCTGATTTTTGCACTTGACGCT
TTGGCTGCTGGAGTACAGGAGGAGTCCTCCACTCACAAGATCGTGAGGTGCTGGTTCGGAGTGTTCAGTG
GACACACGCTTGGCAGTGTAATTTCCACAGATCCTCTGAAGAGGTTCTTCAGTCATACCCTGACTCAGAT
ACTCACTCACAGCCCTGTGCTGAAAGCATCTGATGCTGTTCAGATGCAGAGAGAGTGGAGCTTTGCGCGG
ACACACCCTCTGCTCACCTCACTGTACCGCAGGCTCTTTGTGATGCTGAGTGCAGAGGAGTTGGTTGGCC
ATTTGCAAGAAGTTCTGGAAACGCAGGAGGTTCACTGGCAGAGAGTGCTCTCCTTTGTGTCTGCCCTGGT
TGTCTGCTTTCCAGAAGCGCAGCAGCTGCTTGAAGACTGGGTGGCGCGTTTGATGGCCCAGGCATTCGAG
AGCTGCCAGCTGGACAGCATGGTCACTGCGTTCCTGGTTGTGCGCCAGGCAGCACTGGAGGGCCCCTCTG
CGTTCCTGTCATATGCAGACTGGTTCAAGGCCTCCTTTGGGAGCACACGAGGCTACCATGGCTGCAGCAA
GAAGGCCCTGGTCTTCCTGTTTACGTTCTTGTCAGAACTCGTGCCTTTTGAGTCTCCCCGGTACCTGCAG
GTGCACATTCTCCACCCACCCCTGGTTCCCGGCAAGTACCGCTCCCTCCTCACAGACTACATCTCATTGG
CCAAGACACGGCTGGCCGACCTCAAGGTTTCTATAGAAAACATGGGACTCTACGAGGATTTGTCATCAGC

View online »

TGGGGACATTACTGAGCCCCACAGCCAAGCTCTTCAGGATGTTGAAAAGGCCATCATGGTGTTTGAGCAT
ACGGGGAACATCCCAGTCACCGTCATGGAGGCCAGCATATTCAGGAGGCCTTACTACGTGTCCCACTTCC
TCCCCGCCCTGCTCACACCTCGAGTGCTCCCCAAAGTCCCTGACTCCCGTGTGGCGTTTATAGAGTCTCT
GAAGAGAGCAGATAAAATCCCCCCATCTCTGTACTCCACCTACTGCCAGGCCTGCTCTGCTGCTGAAGAG
AAGCCAGAAGATGCAGCCCTGGGAGTGAGGGCAGAACCCAACTCTGCTGAGGAGCCCCTGGGACAGCTCA
CAGCTGCACTGGGAGAGCTGAGAGCCTCCATGACAGACCCCAGCCAGCGTGATGTTATATCGGCACAGGT
GGCAGTGATTTCTGAAAGACTGAGGGCTGTCCTGGGCCACAATGAGGATGACAGCAGCGTTGAGATATCA
AAGATTCAGCTCAGCATCAACACGCCGAGACTGGAGCCACGGGAACACATGGCTGTGGACCTCCTGCTGA
CGTCTTTCTGTCAGAACCTGATGGCTGCCTCCAGTGTCGCTCCCCCGGAGAGGCAGGGTCCCTGGGCTGC
CCTCTTCGTGAGGACCATGTGTGGACGTGTGCTCCCTGCAGTGCTCACCCGGCTCTGCCAGCTGCTCCGT
CACCAGGGCCCGAGCCTGAGTGCCCCACATGTGCTGGGGTTGGCTGCCCTGGCCGTGCACCTGGGTGAGT
CCAGGTCTGCGCTCCCAGAGGTGGATGTGGGTCCTCCTGCACCTGGTGCTGGCCTTCCTGTCCCTGCGCT
CTTTGACAGCCTCCTGACCTGTAGGACGAGGGATTCCTTGTTCTTCTGCCTGAAATTTTGTACAGCAGCA
ATTTCTTACTCTCTCTGCAAGTTTTCTTCCCAGTCACGAGATACTTTGTGCAGCTGCTTATCTCCAGGCC
TTATTAAAAAGTTTCAGTTCCTCATGTTCAGATTGTTCTCAGAGGCCCGACAGCCTCTTTCTGAGGAGGA
CGTAGCCAGCCTTTCCTGGAGACCCTTGCACCTTCCTTCTGCAGACTGGCAGAGAGCTGCCCTCTCTCTC
TGGACACACAGAACCTTCCGAGAGGTGTTGAAAGAGGAAGATGTTCACTTAACTTACCAAGACTGGTTAC
ACCTGGAGCTGGAAATTCAACCTGAAGCTGATGCTCTTTCAGATACTGAACGGCAGGACTTCCACCAGTG
GGCGATCCATGAGCACTTTCTCCCTGAGTCCTCGGCTTCAGGGGGCTGTGACGGAGACCTGCAGGCTGCG
TGTACCATTCTTGTCAACGCACTGATGGATTTCCACCAAAGCTCAAGGAGTTATGACCACTCAGAAAATT
CTGATTTGGTCTTTGGTGGCCGCACAGGAAATGAGGATATTATTTCCAGATTGCAGGAGATGGTAGCTGA
CCTGGAGCTGCAGCAAGACCTCATAGTGCCTCTCGGCCACACCCCTTCCCAGGAGCACTTCCTCTTTGAG
ATTTTCCGCAGACGGCTCCAGGCTCTGACAAGCGGGTGGAGCGTGGCTGCCAGCCTTCAGAGACAGAGGG
AGCTGCTAATGTACAAACGGATCCTCCTCCGCCTGCCTTCGTCTGTCCTCTGCGGCAGCAGCTTCCAGGC
AGAACAGCCCATCACTGCCAGATGCGAGCAGTTCTTCCACTTGGTCAACTCTGAGATGAGAAACTTCTGC
TCCCACGGAGGTGCCCTGACACAGGACATCACTGCCCACTTCTTCAGGGGCCTCCTGAACGCCTGTCTGC
GGAGCAGAGACCCCTCCCTGATGGTCGACTTCATACTGGCCAAGTGCCAGACGAAATGCCCCTTAATTTT
GACCTCTGCTCTGGTGTGGTGGCCGAGCCTGGAGCCTGTGCTGCTCTGCCGGTGGAGGAGACACTGCCAG
AGCCCGCTGCCCCGGGAACTGCAGAAGCTACAAGAAGGCCGGCAGTTTGCCAGCGATTTCCTCTCCCCTG
AGGCTGCCTCCCCAGCACCCAACCCGGACTGGCTCTCAGCTGCTGCACTGCACTTTGCGATTCAACAAGT
CAGGGAAGAAAACATCAGGAAGCAGCTAAAGAAGCTGGACTGCGAGAGAGAGGAGCTATTGGTTTTCCTT
TTCTTCTTCTCCTTGATGGGCCTGCTGTCGTCACATCTGACCTCAAATAGCACCACAGACCTGCCAAAGG
CTTTCCACGTTTGTGCAGCAATCCTCGAGTGTTTAGAGAAGAGGAAGATATCCTGGCTGGCACTCTTTCA
GTTGACAGAGAGTGACCTCAGGCTGGGGCGGCTCCTCCTCCGTGTGGCCCCGGATCAGCACACCAGGCTG
CTGCCTTTCGCTTTTTACAGTCTTCTCTCCTACTTCCATGAAGACGCGGCCATCAGGGAAGAGGCCTTCC
TGCATGTTGCTGTGGACATGTACTTGAAGCTGGTCCAGCTCTTCGTGGCTGGGGATACAAGCACAGTTTC
ACCTCCAGCTGGCAGGAGCCTGGAGCTCAAGGGTCAGGGCAACCCCGTGGAACTGATAACAAAAGCTCGT
CTTTTTCTGCTGCAGTTAATACCTCGGTGCCCGAAAAAGAGCTTCTCACACGTGGCAGAGCTGCTGGCTG
ATCGTGGGGACTGCGACCCAGAGGTGAGCGCCGCCCTCCAGAGCAGACAGCAGGCTGCCCCTGACGCTGA
CCTGTCCCAGGAGCCTCATCTCTTCTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000135 unedited
GGTGCACAATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGGGCTGTA
GGCGCCAAGGCCATGTCCGACTCGTGGGTCCCGAACTCCGCCTCGGGCCAGGACCCAGGG
GGCCGCCGGAGGGCCTGGGCCGAGCTGCTGGCGGGAAGGGTCAAGAGGGAAAAATATAAT
CCTGAAGGGCACAGAAATTAAAGGAATCAGCTGTGCGCCTCCTGCGAAGCCATCAGGACC
TGAATGCCCTTTTGCTTGAGAAGGTCCACTGTGTAAAAAATTGTCTCTCAGCAAAGTGAT
TGACTGTGACAGTTCTGAGGCCTATGCTAATCATTCTAGTTCATTTATAGGCTCTGCTTT
GCAGGATCAAGCCTCAAGGCTGGGGGTTCCCGTGGGTATTCTCTCAGCCGGGATGGTTGC
CTCTAGCGTGGGACAGATCTGCACGGCTCCAGCGGAGACCAGTCACCCTGTGCTGCTGAC
TGTGGAGCAGAGAAAGAAGCTGTCTTCCCTGTTAGAGTTTGCTCAGTATTTATTGGCACA
CAGTATGTTCTCCCGTCTTTCCTTCTGTCAAGAATTATGGAAAATACAGAGTTCTTTGTT
GCTTGAAGCGGTGTGGCATCTTCACGTACAAGGCATTGTGAGCCTGCAAGAGCTGCTGGA
AAGCCATCCCGACATGCATGCTGTGGGATCGTGGCTCTTCAGGATCTGTGCTGCCTTTGT
GAACAGATGGGAGCATCCTGCCAGCATGCTGACGTCGCCAGGGCCATGCTTTCTGAATTT
GTTCAAAGTTTGTTTTGAGGGGATTTCAGAAAAACTAGTATCTGAGAACAACGTGGAGCC
CGAAAAAAGCCCGCAGTCCACGTTGAAGTACTGCAGAGAATGCTTAATTTGCACTTGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000135 unedited
TGGACCGCGGCACGCAATCTAGTGTCGAGTTTTTTTTTTTTTTTTTCCCCTAAANCAGT
CGAGGAGTATTTGTAATCCACTTTTTAGTGCAACAAGAGCTCCATGTTATGCTTGTAATA
AATTATTTACACGGGAGCTGGGCTGGTGTGCAGTGGCAGGTCCCGTCAGAAGATATGAGG
CTCCTGGGACAGGTCAGCGTCAGGGGCAGCCTGCTGTCTGCTCTGGAGGGCGGCGCTCAC
CTCTGGGTCGCAGTCCCCACGATCAGCCAGCAGCTCTGCCACGTGTGAGAAGCTCTTTTT
CGGGCACCGAGGTATTAACTGCAGCAGAAAAAGACGAGCTTTTGTTATCAGTTCCACGGG
GTTGCCCTGACCCTTGAGCTCCAGGCTCCTGCCAGCTGGAGGTGAAACTGTGCTTGTATC
CCCAGCCACGAAGAGCTGGACCAGCTTCAAGTACATGTCCACAGCAACATGCAGGAAGGC
CTCTTCCCTGATGGCCGCGTCTTCATGGAAGTAGGAGAGAAGACTGTAAAAAGCGAAAGG
CAGCAGCCTGGTGTGCTGATCCGGGGCCACACGGAGGAGGAGCCGCCCCAGCCTGAGGTC
ACTCTCTGTCAACTGAAAGAGTGCCAGCCAGGATATCTTCCTCTTCTCTAAACACTCGAG
GATTGCTGCACAAACGTGGAAAGCCTTTGGCAGGTCTGTGGTGCTATTTGAGGTCAGATG
TGACGACAGCAGGCCCATCAAGGAGAAGAAGATAAGGATACCAATAGCTCCTCTCTCTCG
CAGTCCAGCTTCTTTAGCTGCTTCCTGATGTTNTCTTCCCTGACTTTGTTGATNCANAGT
GCAGTGCANCAGCTGAAATCCCTNCCGGTNTTGGGNTGCTGGGATGCANCCTCAGGGGAT
AAGAANTCGCTGGGCAACTGCCGGCCTTTCTGTACTTCTGCATTCCCGGGGCAGGGCTTT
TGGCAGTGCCTCCTCCACGGAGAGCAACATGCTCAGGCCTGGCCCAACAAN

Restriction Sites: NotI-NotI

ACCN: NM_000135

Insert Size: 4640 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_000135.2, NP_000126.2
RefSeq Size:	5460 bp
RefSeq ORF:	4368 bp
Locus ID:	2175
UniProt ID:	O15360
Cytogenetics:	16q24.3
Domains:	Fanconia
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 A. Alternative splicing results in multiple transcript variants encoding different isoforms. Mutations in this gene are the most common cause of Fanconi anemia. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).