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Product datasheet for SC117235

FANCG (NM_004629) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCG (NM_004629) Human Untagged Clone
Tag:	Tag Free
Symbol:	FANCG
Synonyms:	FAG; XRCC9
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC117235 sequence for NM_004629 edited (data generated by NextGen Sequencing)

ATGTCCCGCCAGACCACCTCTGTGGGCTCCAGCTGCCTGGACCTGTGGAGGGAAAAGAAT
GACCGGCTCGTTCGACAGGCCAAGGTGGCTCAGAACTCCGGTCTGACTCTGAGGCGACAG
CAGTTGGCTCAGGATGCACTGGAAGGGCTCAGAGGGCTCCTCCATAGTCTGCAAGGGCTC
CCTGCAGCTGTTCCTGTTCTTCCCTTGGAGCTGACTGTCACCTGCAACTTCATTATCCTG
AGGGCAAGCTTGGCCCAGGGTTTCACAGAGGATCAGGCCCAGGATATCCAGCGGAGCCTA
GAGAGAGTGCTGGAGACACAGGAGCAGCAGGGGCCCAGGTTGGAACAGGGGCTCAGGGAG
CTGTGGGACTCTGTCCTTCGTGCTTCCTGCCTTCTGCCGGAGCTGCTGTCTGCCCTGCAC
CGCCTGGTTGGCCTGCAGGCTGCCCTCTGGTTGAGTGCTGACCGTCTTGGGGACCTGGCC
TTGTTACTAGAGACCCTGAATGGCAGCCAGAGTGGAGCCTCTAAGGATCTGCTGTTACTT
CTGAAAACTTGGAGTCCCCCAGCTGAGGAATTAGATGCTCCATTGACCCTGCAGGATGCC
CAGGGATTGAAGGATGTCCTCCTGACAGCATTTGCCTACCGCCAAGGTCTCCAGGAGCTG
ATCACAGGGAACCCAGACAAGGCACTAAGCAGCCTTCATGAAGCGGCCTCAGGCCTGTGT
CCACGGCCTGTGTTGGTCCAGGTGTACACAGCACTGGGGTCCTGTCACCGTAAGATGGGA
AATCCACAGAGAGCACTGTTGTACTTGGTTGCAGCCCTGAAAGAGGGATCAGCCTGGGGT
CCTCCACTTCTGGAGGCCTCTAGGCTCTATCAGCAACTGGGGGACACAACAGCAGAGCTG
GAGAGTCTGGAGCTGCTAGTTGAGGCCTTGAATGTCCCATGCAGTTCCAAAGCCCCGCAG
TTTCTCATTGAGGTAGAATTACTACTGCCACCACCTGACCTAGCCTCACCCCTTCATTGT
GGCACTCAGAGCCAGACCAAGCACATACTAGCAAGCAGGTGCCTACAGACGGGGAGGGCA
GGAGACGCTGCAGAGCATTACTTGGACCTGCTGGCCCTGTTGCTGGATAGCTCGGAGCCA
AGGTTCTCCCCACCCCCCTCCCCTCCAGGGCCCTGTATGCCTGAGGTGTTTTTGGAGGCA
GCGGTAGCACTGATCCAGGCAGGCAGAGCCCAAGATGCCTTGACTCTATGTGAGGAGTTG
CTCAGCCGCACATCATCTCTGCTACCCAAGATGTCCCGGCTGTGGGAAGATGCCAGAAAA
GGAACCAAGGAACTGCCATACTGCCCACTCTGGGTCTCTGCCACCCACCTGCTTCAGGGC
CAGGCCTGGGTTCAACTGGGTGCCCAAAAAGTGGCAATTAGTGAATTTAGCAGGTGCCTC
GAGCTGCTCTTCCGGGCCACACCTGAGGAAAAAGAACAAGGGGCAGCTTTCAACTGTGAG
CAGGGATGTAAGTCAGATGCGGCACTGCAGCAGCTTCGGGCAGCCGCCCTAATTAGTCGT
GGACTGGAATGGGTAGCCAGCGGCCAGGATACCAAAGCCTTACAGGACTTCCTCCTCAGT
GTGCAGATGTGCCCAGGTAATCGAGACACTTACTTTCACCTGCTTCAGACTCTGAAGAGG
CTAGATCGGAGGGATGAGGCCACTGCACTCTGGTGGAGGCTGGAGGCCCAAACTAAGGGG
TCACATGAAGATGCTCTGTGGTCTCTCCCCCTGTACCTAGAAAGCTATTTGAGCTGGATC
CGTCCCTCTGATCGTGACGCCTTCCTTGAAGAATTTCGGACATCTCTGCCAAAGTCTTGT
GACCTGTAG

Clone variation with respect to NM_004629.1

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004629 unedited
CACATTTTGTAATACGACTCACTTATAGGGCGGCCGCGATTCGGCACGAGGTCCGCGAGA
GCCGAGCGGGCCGCACCGCCGGCCGTGCGACTGCCCCAGTCAGACACGACCCCGGCTTCT
AGCCCGCCTAAGCCTGTTTGGGGTTGCTGACTCGTTTCCTCCCCGAGTTTCCCGCGGGAA
CTAACTCTTCAAGAGGACCAACCGCAGCCCAGAGCTTCGCAGACCCGGCCAACCAGAGGC
GAGGTTGAGAGCCCGGCGGGCCGCGGGGAGAGAGCGTCCCATCTGTCCTGGAAAGCCTGG
GCGGGTGGATTGGGACCCCGAGAGAAGCAGGGGAGCTCGGCGGGGTGCAGAAGTGCCCAG
GCCCCTCCCCGCTGGGGTTGGGAGCTTGGGCAGGCCAGCTTCACCCTTCCTAAGTCCGCT
TCTGGTCTCCGGGCCCAGCCTCGGCCACCATGTCCCGCCAGACCACCTCTGTGGGCTCCA
GCTGCCTGGACCTGTGGAGGGAAAAGAATGACCGGCTCGTTCGACAGGCCAAGGTGGCTC
AGAACTCCGGTCTGACTCTGAGGCGACAGCAGTTGGCTCAGGATGCACTGGAAGGGCTCA
GAGGGCTCCTCCATAGTCTGCAAGGGCTCCCTGCAGCTGTTCCTGTTCTTCCCTTGGAGC
TGACTGTCACCTGCAACTTCATTATCCTGAGGGCAAGCTTGGCCCANGGTTTCACAGAGG
ATCAGGCCCAGGATATCCAGCGGAGCCTANAGAGAGTGCTGGAGACACAGGAGCAGCAGG
GGCCCCAGTGGAACAGGNGCTCAGGNAGCTGTGGGACTCTGTCCTTCGTGCTTNNCTGCT
TTCTGCGNAGCTGCTGTCTGCCTCCCCCNCCTCTTGTTGGCCTGCAGCTGCCTCNGNNTT
GGATGCTGACCGNCTTGGGGACCTGGCCCTGNTACTANAAACCCTGAATGCAGCCCNNAG
TGAGCTCCTTAGGAAATCGCTGGTACT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004629 unedited
NTTGCTCTGGACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAAATAT
GAAATTTTACTCGACAACAGAAAAGGAGAAACAGGAAAAAGGTGCCTCGAGCAAAGTCAA
TGACTTGGTGGTGGCAGAGATTGTTTCCTCCAAAACGAGAATGGTAGTAACTAGGGCAAA
TTTCACAGGCCTACCACCAATCTCACCAGTCCAGGAATTATATAGGAATGGTCACATTCC
TAATGATGGTGAAGCAGAAAGCCCTCCCCACAGAGAGACAGCCCACTGGGGACCCAGCTC
AAGCTCTTCAAAACGTGGCAGCTACAGGTCACAAGACTTTGGCAGAGATGTCCGAAATTC
TTCAAGGAAGGCGTCACGATCAGAGGGACGGATCCAGCTCAAATAGCTTTCTAGGTACAG
GGGGAGAGACCACAGAGCATCTTCATGTGACCCCTTAGTTTGGGCCTCCAGCCTCCACCA
GAGTGCAGTGGCCTCATCCCTCCGATCTAGCCTCTTCAGAGTCTGAAGCAGGTGAAAGTA
AGTGTCTCGATTACCTGGGCACATCTGCACACTGAGGAGGAAGTCCTGTAAGGCTTTGGT
ATCCTGGCCGCTGGCTACCCATTCCAGTCCACGACTAATTANGGGCGGCTGCCCGAAGCT
GCTGCAGNGCCGCATCTGACTTACATNCCTGCTCACAGTTGAAAGCTGCCCCTTGGTCTT
TTNTCTCCAGTGTGGCCCGAAGAGCAACTCGAGGCACCTGCTAAATCACTAATTGGCCCT
TTTTGGGGCACCCAGTTGAAACCCAGCCTTGCCCTGTAGCACGGGGGTTGGNCAAAAACC
AAAAATGGGCGAAAGGGGCAGTCCCTTGGTCCCTTTTTTGGGCATTTCCCCACGCCGGAC
ATTTTTGGGTACAAAAAAGATGGGCCGTTGACACACCCTCCCTTAAGTAAAGCATT

Restriction Sites: NotI-NotI

ACCN: NM_004629

Insert Size: 2550 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_004629.1, NP_004620.1
RefSeq Size:	2649 bp
RefSeq ORF:	1869 bp
Locus ID:	2189
UniProt ID:	O15287
Cytogenetics:	9p13.3
Domains:	TPR
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 G. [provided by RefSeq, Jul 2008]