

Recombinant Human FANCG

Cat. No. FANCG-28822TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human FANCG with a N terminal proprietary tag; Predicted MWt 94.53 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	622 amino acids
Description	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 G.
Molecular Weight	94.530kDa inclusive of tags
Tissue specificity	Highly expressed in testis and thymus. Found in lymphoblasts.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSRQTTSVGSSCLDLWREKNDRLVRQAKVAQNSGLTLR RQQLAQDALEGLRGLLH SLQGLPAAVPVLPLELTVTCNFI ILRASLAQGFTEDQAQDIQRSLELVLETQEQQGP RLEQGL RELWDSVLRASCLLPELLSALHRLVGLQAALWLSADRLGD LALLLETNG SQSGASKDLLLLKTWSPPAEELDAPLTLQ DAQGLKDVLLTAFAYRQGLQELITGNP DKALSSLHEAASG LCPRPVLVQVYTALGSCHRKMGNPQRALLYLVAALKEGSA WG PPLLEASRLYQQLGDTTAELESLELLVEALNVPCSSKA PQFLIEVELLLPPPDLASPL HCGTQSQTKHILASRCLQTG RAGDAAEHYDLLALLDSSEPRFSPPSPPGPCMP EVFL EAAVALIQAGRAQDALTLCEELLSRTSSLLPKMSRLWEDA RKGTKELPYCPL WVSATHLLQGQAWVQLGAQKVAISEFSR CLELLFRATPEEKEQGAAFNCEQGCKS DAALQQLRAAALI SRGLEWVASGQDTKALQDFLLSVQMCPGNRDYFHLLQTL KR LDRRDEATALWWRLEAQTKGSHEDALWSLPLYLESYLS WIRPSDRDAFLEEFRTSL PKSCDL
Sequence Similarities	Contains 4 TPR repeats.

GENE INFORMATION

Gene Name	FANCG Fanconi anemia, complementation group G [Homo sapiens]
Official Symbol	FANCG
Synonyms	FANCG; Fanconi anemia, complementation group G; XRCC9; Fanconi anemia group G protein; DNA repair protein XRCC9; FAG; X ray repair complementing defective

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	repair in Chinese hamster cells 9; X ray repair; complementing defective; in Chinese hamster; 9;
Gene ID	2189
mRNA Refseq	NM_004629
Protein Refseq	NP_004620
MIM	602956
Uniprot ID	O15287
Chromosome Location	9p13
Pathway	BARD1 signaling events, organism-specific biosystem; DNA Repair, organism-specific biosystem; FA core complex, organism-specific biosystem; Fanconi Anemia pathway, organism-specific biosystem; Fanconi anemia pathway, organism-specific biosystem;
Function	damaged DNA binding; protein binding;