

Product datasheet for **RG218972**

FANCI (NM_018193) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCI (NM_018193) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FANCI
Synonyms:	KIAA1794
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218972 representing NM_018193 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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TGTTGTATCCAGTTGGTGAATCGGGGATTTGCAGAAAGAAATAGCGTCTGAGATCATAGGATTACTGA
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CCAGCCAAGAAGAAAAGGAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218972 representing NM_018193
 Red=Cloning site Green=Tags(s)

MDQKILSLAAEKTADKLQEFLQTLREGDLTNLLQNQAVKGVAGALLRAIFKGPCSEEAGTLRRRRIYT
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 PPLVYQLLVSSKGRKSVLEGIIAFFSALDKQHNEEQSGDELDDVVTVPSELRHVEGTIILHIVFAIK
 LDYELGRELVKHLKVGQQGDSNNNLSPFSIALLLSVTRIQRFQDQVLDLLKTSVVKSFKDLQLLQGSKFL
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 SSQEEDFNSKEALLLVTLTSLSKLLEPSPQFVQMLSWTSKICKENSREDALFCKSLMNLFLSLHVS
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 SQETLSEEASSQATLPNQPVKAIIMQLGTLTFFHELVTALPSGSCVDTLKDLCKMYTTLTALVRY
 LQVCQSSGGIPKNMEKLVKLSGSHLTPLCYSFISYVQNKSKSLNYTGEKKEKPAAVATAMARVLR
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 NKEPAKKRKK

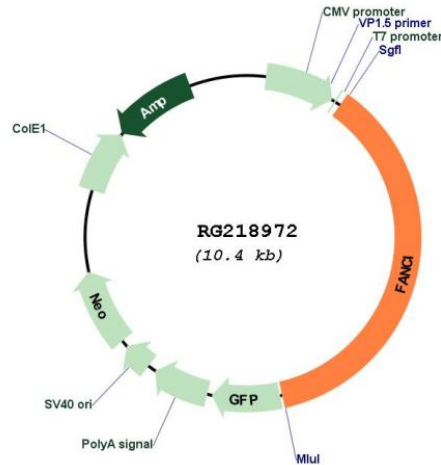
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_018193

ORF Size: 3804 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.

RefSeq: [NM_018193.3](#)

RefSeq Size: 4569 bp

RefSeq ORF: 3807 bp

Locus ID: 55215

UniProt ID: [Q9NVI1](#)

Cytogenetics: 15q26.1

Gene Summary:

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 I. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]