

# Product datasheet for RG208920

## FANCF (NM\_022725) Human Tagged ORF Clone

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	FANCF (NM_022725) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FANCF
Synonyms:	FAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Sgfi ORF Miu i

 Sgf1
 ORF
 Miu i

 --- GCGATCGC
 ATG
 ACG
 CGT

 --- GCGATCGC
 ATG
 ACG
 CGT

 EcoR I
 BamH I Kpn I
 RBS
 Sgf1
 Asc I

 CTATAGGGCGGGCGGGGAATTCGTCGACTGGATCGGTACCGAGGAGATCTGCCGCCGCGGCGCCCGGGGCGCCCAGATCT
 Minu II
 Nhe I
 Rsr II

 Hind III
 Nhe I
 Rsr II
 Miu I
 Not I
 Xho I
 GFP Tag

 CAAGCTTAACTAGCTAGCGGGACCG
 ACG
 CGT
 CGT
 CGT
 GFP Tag

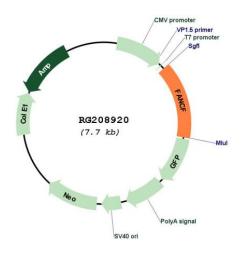
 CAAGCTTAACTAGCTAGCGGGACCG
 ACG
 CGT
 CGT
 GFP Tag

Pme I Fse I --- GAA GAA AGA GTT TAA ACGGCCGGCGGGAGCT - - E E R V Stop



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### Plasmid Map:



ACCN:	NM_022725
ORF Size:	1122 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. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 022725.4</u>

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	FANCF (NM_022725) Human Tagged ORF Clone – RG208920
RefSeq Size:	3309 bp
RefSeq ORF:	1125 bp
Locus ID:	2188
UniProt ID:	<u>Q9NPI8</u>
Cytogenetics:	11p14.3
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 F. [provided by RefSeq, Jul 2008]

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