

## Product datasheet for **RG208159**

### FANCE (NM\_021922) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FANCE (NM_021922) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FANCE
Synonyms:	FACE; FAE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208159 representing NM\_021922  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACACCGGACCGGGGCTCCCTGGGGCTGAGGGCTGGAGCCGGCGCCCTGGGCGCAGCTGGAGG  
 CCCCCCGCCGCTCTGCTGCAGGCGCTGCAGGCGGGGCTGAGGGGGCGCGCGCGGCCTGGGGGTGCT  
 CCGGGCGCTGGGACGCCGCGCTGGGAGCCCTCGACTGGGGTCGCTTGTCTCAGGCCCTGTGCCGGAG  
 GAGCCGGTCTGCAGGGGCTGACGGCCGCTGGAGCTGAAACCACTGTTGCTGCGATTGCCCGGATAT  
 GCCAGAGGAACCTGATGTCCTGCTGATGGCCGTTTCGGCCATCGCTGCCGAAAGTGGGCTCCTCTGT  
 GCTGCAGATTGCCAGCAGGACCTAGCCCTGACCCAGATGCCTGGTCCGTGCCCTGGGGGAATTGCTG  
 CGAAGGGATTTGGGGTGGGACCTCCATGGAGGGAGCTTCTCCACTGTCTGAAAGATGCCAGAGACAGC  
 TCCAAAGTCTATGTAGGGGGCTGGGCTGGGGGCGAGGAGTTGAAATCCCCCAGGCTCCAGACCTGA  
 AGAAGAGGAGAACAGGGACTCCCAGCAGCTGGGAAACGCAGAAAGGACTCAGAGGAAGAGGCTGCCAGT  
 CCTGAGGGGAAGAGGGTCCCAAAGATTACGGTGTGGGAAGAGGAAGAAGATCATGAGAAGGAGAGAC  
 CCGAACATAAGTCACTGGAATCCCTGGCAGATGGAGGAAGTGCATCTCCTATTAAGGACCAGCCTGTCAT  
 GGCAGTTAAGACTGGCGAGGACGGTTCGAATCTGGATGATGCTAAAGGTCTGGCTGAGAGTTGGAGTTG  
 CCCAAAGCTATCCAGGACCAGCTTCCAGGCTGCAGCAGCTGCTGAAGACCTTGGAGGAGGGTTAGAGG  
 GATTGGAGGATGCCCCCAGTTGAGCTACAGCTTCTTACGAATGTAGTCCCAGCCAGATGGACTTGCT  
 GTGTGCCAGCTGCAGCTCCCTCAGCTCTCAGACCTCGGTCTCCTGCGGCTCTGCACCTGGCTGTGGCC  
 CTTTACCTGATCTCAGCTCAGCAATGCTACTGTGCTGACCAGAAGCCTCTTCTTGGACGGATCCTCT  
 CTTTGACTTCTCAGCTCCCCTGCTTACAACCTGCCCTGACCTCTTCTGTGCCAAATATACATACCC  
 TGTCTGCAGCGCCCTCCTTGACCCTGTGCTCCAGGCCAGGCACAGGTCCTGCTCAAACAGAGTTACTG  
 TGTTCCTTGTGAAGATGGAGTCCCTGGAGCCAGATGCACAGTTCTAATGCTGGACAGATCTTGAGC  
 TGCCCTGGAAGGAGGAACTTTCTTGGTGTGAGTCACTCCTAGAGCGGCAGGTGGAGATGACCCCTGA  
 GAAGTTCAGTGTCTAATGGAGAAGCTCTGAAAAAGGGGCTGGCAGCCACCACCTCCATGGCCTATGCC  
 AAGCTCATGCTGACAGTATGACCAAGTATCAGGCTAACATCACTGAGACCCAGAGGCTGGGCTGGCTA  
 TGGCCCTAGAACCTAACACCACCTTCTGAGGAAGTCCCTGAAGGCCGCTTGAACATTTGGGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208159 representing NM\_021922  
 Red=Cloning site Green=Tags(s)

MATPDAGLPGAEGVEPAPWAQLEAPARLLLQALQAGPEGARRGLGVLRALGSRGWEPFDWGRLLLEALCRE  
 EPVVQGPDPGRLELKPILLRRLPRICQRNLSLMAVRPSLPESGLLSVLQIAQQDLAPDPDAWLRALGELL  
 RRDLVGVTSMEGASPLSERCQRQLQSLCRGLGLGGRRLLKSPQAPDPEEEENRDSQOPGKRRKDSEEEAAS  
 PEGKRVPKRLRCWEEEDHEKERPEHKSLESLADGGSASPIKDQPVMAVKTGEDGNSLDDAKGLAESLEL  
 PKAIQDQLPRLQQLKLTLEEGLEGLDAPPVELQLLHECSPSQMDLLCAQLQLPQLSDLGLLRLCTWLLA  
 LSPDLSLSNATVLRSLFLGRILSLTSSASRLTTALTSCAKYTYPVCSALLDPVLQAPGTGPAQTELL  
 CCLVKMESLEPDAQVLMGQILELPWKEETFVLVLSLLERQVEMTPEKFSVLMEKLCCKGLAATSMAYA  
 KLMLTVMTKYQANITETQRLGLAMALEPNTTFLRKSLLKAAALKHLGP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_021922

**ORF Size:** 1608 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\\_021922.3](#)

**RefSeq Size:** 2565 bp

**RefSeq ORF:** 1611 bp

**Locus ID:** 2178

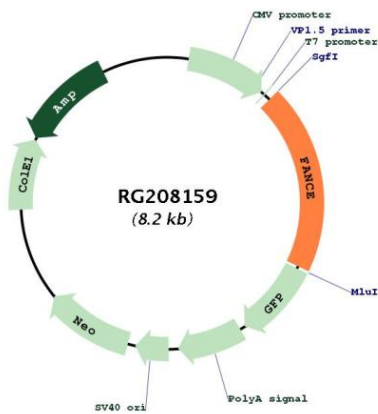
**UniProt ID:** [Q9HB96](#)

**Cytogenetics:** 6p21.31

**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, 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 E. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG208159