

Product datasheet for **RC208159**

FANCE (NM_021922) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCE (NM_021922) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FANCE
Synonyms:	FACE; FAE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208159 representing NM_021922
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACACCGGACCGGGGCTCCCTGGGGCTGAGGGCTGGAGCCGGCGCCCTGGGCGCAGCTGGAGG
 CCCCCGCCCGCCTCTGCTGCAGGCGCTCAGGGCGGGCCTGAGGGGGCGCGCGCGGCCTGGGGGTGCT
 CCGGGCGCTGGGACGCCGCGCTGGGAGCCCTCGACTGGGGTCGCTTGTCTCAGGCCCTGTGCCGGGAG
 GAGCCGGTCTGCAGGGGCTGACGCGCTCTGGAGCTGAAACCACTGTTGCTGCGATTGCCCGGATAT
 GCCAGAGGAACCTGATGTCCTGCTGATGGCCGTTTCGGCCATCGCTGCCGAAAGTGGGCTCCTCTGT
 GCTGCAGATTGCCAGCAGGACCTAGCCCTGACCCAGATGCCTGGTCCGTGCCCTGGGGGAATTGCTG
 CGAAGGGATTTGGGGTGGGACCTCCATGGAGGGAGCTTCTCCACTGTCTGAAAGATGCCAGAGACAGC
 TCCAAAGTCTATGATGGGGCTGGGCTGGGGGCGAGGAGTTGAAATCCCCCAGGCTCCAGACCTGA
 AGAAGAGGAGAACAGGGACTCCCAGCAGCTGGGAAACGCAGAAAGGACTCAGAGGAAGAGGCTGCCAGT
 CCTGAGGGGAAGAGGGTCCCCAAAAGATTACGGTGTGGGAAGAGGAAGAAGATCATGAGAAGGAGAGAC
 CCGAACATAAGTCACTGGAATCCCTGGCAGATGGAGGAAGTGCATCTCCTATTAAGGACCAGCCTGTCAT
 GGCAGTTAAGACTGGCGAGGACGGTTCGAATCTGGATGATGCTAAAGGTCTGGCTGAGAGTTGGAGTTG
 CCCAAAGCTATCCAGGACCAGCTTCCAGGCTGCAGCAGCTGCTGAAGACCTTGGAGGAGGGGTTAGAGG
 GATTGGAGGATGCCCCCAGTTGAGCTACAGCTTCTTACGAATGTAGTCCCAGCCAGATGGACTTGCT
 GTGTGCCAGCTGCAGCTCCCTCAGCTCTCAGACCTCGGTCTCCTGCGGCTCTGCACCTGGCTGTGGCC
 CTTTACCTGATCTCAGCTCAGCAATGCTACTGTGCTGACCAGAAGCCTCTTCTTGGACGGATCCTCT
 CTTGACTTCTCAGCCTCCCCTGCTTACAACCTGCCCTGACCTCTTCTGTGCCAAATATACATACCC
 TGCTGCAGCGCCCTCCTTGACCCTGTGCTCCAGGCCCCAGGCACAGGTCTCTGCTCAAACAGAGTTACTG
 TGTTCCTTGTGAAGATGGAGTCCCTGGAGCCAGATGCACAGTTCTAATGCTGGACAGATCTTGAGC
 TGCCCTGGAAGGAGGAACTTTCTTGGTGTGAGTCACTCCTAGAGCGGAGGTGGAGATGACCCCTGA
 GAAGTTCAGTGTCTAATGGAGAAGCTCTGAAAAAGGGGCTGGCAGCCACCACCTCCATGGCCTATGCC
 AAGCTCATGCTGACAGTATGACCAAGTATCAGGCTAACATCACTGAGACCCAGAGGCTGGGCTGGCTA
 TGGCCCTAGAACCTAACACCACCTTCTGAGGAAGTCCCTGAAGGCCGCTTGAACATTTGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208159 representing NM_021922
 Red=Cloning site Green=Tags(s)

MATPDAGLPGAEGVEPAPWAQLEAPARLLLQALQAGPEGARRGLGVLRALGSRGWEPFDWGRLLLEALCRE
 EPVVQGPDGRLELKPLLLRLPRICQRNLSLLMAVRPSLPESGLLSVLQIAQDLPDPDAWLRALGELL
 RRDLGVGTSMEGASPLSERCQRQLQSLCRGLGLGRRLLKSPQAPDPEEEENRDSQQPGKRRKDSEEEAAS
 PEGKRVKRLRCWEEEDHEKERPEHKSLESLADGGSASPIKDQPMVAVKTGEDGSNLDDAKGLAESLEL
 PKAIQDQLPRLQQLLKTLEEGLEGLDAPPVELQLLHECSPSQMDLLCAQLQLPQLSDLGLLRLCTWLLA
 LSPDLSL SNATVLRSLFLGRILSLTSSASRLTTALT SFCAYTYPVCSALLDPVLQAPGTGPAQTLL
 CCLVKMESLEPDAQVLMGQILELPWKEETFVLVQSLLERQVEMTPEKFSVLMKELCKKGLAATSMAYA
 KLMLVMTKYQANITETQRLGLAMALEPNTTFLRKS LKAALKHLGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8101_g03.zip

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](#)

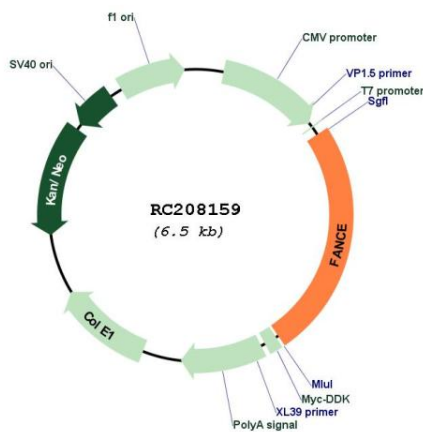
Cytogenetics: 6p21.31

Protein Families: Druggable Genome

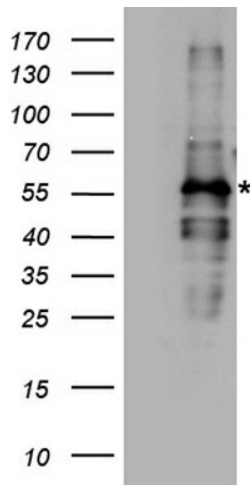
MW: 58.7 kDa

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 RC208159



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FANCE (Cat# RC208159, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FANCE rabbit polyclonal antibody (Cat# [TA890120]).