

## Product datasheet for **MC217474**

### Fance (NM\_001163819) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Fance
Synonyms:	2810451D06Rik; AI415634; AW209126
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC217474 representing NM\_001163819  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**

CTGGCGAGCCGGGTCGACTCCGTAGCCTCGGCCGAGCGGCCCTGGCGAGCCTGGAGGCCCTG  
 CCGCCTCCTGCTTCAGGCGCTACAGGCAGGGCCTGAGGGTGCGCGCGCGGGCTAGGGTTCTGCGCGC  
 CCTCGGCCGCCGCGGAGCACTTCCCTTGGGATGGCTTCTGAGGGCGCTGGGCCACTTAGAGCCCGAG  
 GTGGGGGGCCCCGACGGCCGCTAGAGCTGGTCCCACTGTTGCTCCGGCTGCCTGGGGTCTGCCAGAAGA  
 ACCTGCTGTCCCTGCTGCTGGCTCTCTACCATCCTTACCTGAAAGCGGACTCCGCTCTGTGCTGCAGCT  
 CCACCATCAGGATGTGTCTCTACCACTGATGCCTGGCTCCATGCCCTGGGGGAGCTGCTGCGAAGGGAT  
 GTGGGGGTTGGAGTCGCTGAGGGATCTTCTCCATTGACCAGAAGCTGTCACTTACAGCTCCGGGACCTGT  
 GTGGGGCGCTGGGCCAAGGGGGAGGGGGCTGAACTGGCCCTGGCTCCAGATCCTGAACAAGAGGACAG  
 ACTCTCACAGCTTTGCGGGAACGGACGAAAGAGCCAGAAGAGGCTGCCAGCCCTGAGTCAGAGAGATCC  
 CCTAAAGGTTCCGGGGCTGTGAGGAGGCGGTGGAAGGAAAGGAACCGGAGGAGAGACCCACGCTGGAGT  
 CGCTGGGATCCCCACCAGATGCAGGAGGCGTGTGCCTGACACTGACGCCAGGCTCCGGAGACTGGCCC  
 TGGCGTGGAGGGTCCCAAGGGTCCCGCTGAGAGTGTGGAGTTGCCCAAAGTTGTCCAGGACCAGGTGCC  
 AGGCTGCAGCTGCTGCTGAAGGCCTTCCAGGAGGGCTGGAGGGTCAGGAGAAGCCCTAGTGGACCTGC  
 AGTTTCTTCATGAATGTAGTCCAGCGAGATGGAGTTGCTATGCAGCGAACTACAGCTACCCAGCTCCC  
 TGACGAGGCTCTCTGCAGCTCTGCAGCCACCTGATGGGTCTCACACCAGCCCTCAGCCTCAGCAATGCC  
 TCTGTGCTGGCCAGGAGCTCTTTCTTGACCGGATCCGCTCCCTGCCGTCTTCTGCCTCCAGGCTTCTCA  
 GAGTGGCCCTCGTCTCTTCTGTGTAAGTACACCTACGCCATCTGCAGGGCTGTCTCTGTCCCTTGCT  
 CCAGGACCCTCGTGTAGGTCTGCGCAGACCGAGTTACTGTGTTCCCTCATAAAGGATGAGTCCCTGGAG  
 TCAGACATGCAGGTCCAGATTTTGGGCGAGTCTGGAGCTGGCCTGGCGAGAAGAGACGTTCTGGTGT  
 TGCAGACGCTCCTGGAACGGCAGGTAGAGATGACCCCTGAGGTGTTCACTGTCTTAGTGCAGAGGCTCTG  
 CAAAGAGGGACAGCAGCCACTACCTCCATGGCCTATGCCAAGCTGATGCTGACGGTATGACCAAGTAC  
 CAGACCAGTATCACAGAGCAGCAGACCTGGACCTGGCTGTGGCCCTAGAGCCCAACGCCACCTTCTGA  
 AGAAGGCCCTGCAAGCAGCGCTGAGACATGTGACCCACT**G**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001163819

**Insert Size:** 1581 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001163819.1, NP_001157291.1</u>
<b>RefSeq Size:</b>	2016 bp
<b>RefSeq ORF:</b>	1581 bp
<b>Locus ID:</b>	72775
<b>Cytogenetics:</b>	17 A3.3
<b>Gene Summary:</b>	<p>This gene encodes the complementation group E subunit of the multimeric Fanconi anemia (FA) nuclear complex composed of proteins encoded by over ten Fanconi anemia complementation (FANC) group genes: FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL (also called BRIP1), FANCL, FANCM and FANCN (also called PALB2). The FA complex is necessary for protection against DNA damage. This gene product is required for the nuclear accumulation of FANCC and provides a critical bridge between the FA complex and FANCD2. Defects in the related human gene are a cause of Fanconi anemia, a genetically heterogeneous recessive disorder characterized by cytogenetic instability, hypersensitivity to DNA crosslinking agents, increased chromosomal breakage, and defective DNA repair. Translation of this protein is initiated at a non-AUG (CUG) start codon, which is inferred from the related human gene and the notion that this protein is functionally indispensable. Multiple transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2009]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. The combination of alternatively spliced exons within the coding region and the non-AUG start codon (CUG at nt 115) are inferred based on available transcript data, and further supported by similar exon-intron structure of the orthologous human gene (GeneID:2178) that encodes a functionally important protein.</p>