

## Product datasheet for **MC216682**

### Fance (NM\_001163820) Mouse Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Fance (NM_001163820) Mouse Untagged Clone |
| 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:** >MC216682 representing NM\_001163820  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

CTGGCGACGCCGGGTTCGGACTCCGTAGCCTCGGCCGAGCGGCCCTGGGCGAGCCTGGAGGCCCTG  
 CCCGCCTCCTGCTTCAGGCGCTACAGGCAGGGCCTGAGGGTGCGCGGCGCGGGCTAGGGGTTCTGCGCGC  
 CCTCGGCCGCGCGCGGAGCACTTCCCTTGGGATGGCTTCTGGAGGCGCTGGGCCACTTAGAGCCCGAG  
 GTGCGGGGCCCCGACGGCCGCTAGAGCTGGTCCCACTGTTGCTCCGGCTGCCTGGGGTCTGCCAGAAGA  
 ACCTGTGTCTCCTGCTGCTGGCTCTCTACCATCTTACCTGAAAGCGGACTCCGCTCTGTGCTGCAGCT  
 CCACCATCAGGATGTGCTCTACCACTGATGCCTGGCTCCATGCCCTGGGGAGCTGCTGCGAAGGGAT  
 GTGGGGTTGGAGTCGCTGAGGGATCTTCTCCATTGACCAGAAGCTGTCAATTACAGCTCCGGGACCTGT  
 GTGGGCGGCTGGCCAAGGGGGAGGGGGCTGAACTGGCCCTGGCTCCAGATCCTGAACAAGAGGACAG  
 ACTCTCACAGCTTTCGCGGAAACGACGAAAGAGCCAGAAGAGGCTGCCAGCCCTGAGTCAGAGAGATCC  
 CCTAAAAGGTTCCGGGGCTGTGAGGAGGCGGTGGAAGGAAAGGAACCGGAGGAGAGACCCACGCTGGAGT  
 CGCTGGGATCCCCACAGATGCAGGAGGCGTGTTCCTGACACTGACGCCAGGCTCCGGAGACTGGCCC  
 TGGCGTGGAGGGTCCCAAGGGTCCCGCTGAGAGTGTGGAGTTGCCCAAAGTTGTCCAGGACCAGGTGCC  
 AGGCTGCAGCTGCTGCTGAAGGCCTTCCAGGAGGGGCTGGAGGGTCAGGAGAAGCCCTAGTGGACCTGC  
 AGTTTCTTCATGAATGTAGTCCCAGCGAGATGGAGTTGCTATGCAGCGAACTACAGCTACCCAGCTCCC  
 TGACGGAGGTCTCCTGCAGCTCTGCAGCCACCTGATGGGTCTCACACCAGCCCTCAGCCTCAGCAATGCC  
 TCTGTGCTGGCCAGGAGCCTCTTCTTGACCGGATCCGCTCCCTGCCGTCTTCTGCCTCCAGGCTTCTCA  
 GAGTGGCCCTCGTCTCCTTCTGTGTAAGTACACCTACGCCATCTGCAGGGCTGTCTCTGTCCCTTGCT  
 CCAGGACCCTCGTGTAGGTCTGCGCAGACCGAGTTACTGTGTTCCCTCATAAAGGATGAGTCCCTGGAG  
 TCAGACATGCAGGTCCAGATTTTGGGCAAGTCTGGAGCTGGCCTGGCGAGAAGAGACGTTCTGCTGT  
 TGCAGACGCTCCTGGAACGGCAGATCACAGAGCAGCAGAGCCTGGACCTGGCTGTGGCCCTAGAGCCCAA  
 GCACACCTTCTGAAGAAGGCCCTGCAAGCAGCGCTGAGACATGTGACCCACT**GA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001163820
- Insert Size:** 1455 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).
- 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.

|                      |   |
|----------------------|---|
| <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_001163820.1, NP_001157292.1</u>   |
| <b>RefSeq Size:</b>  | 1890 bp   |
| <b>RefSeq ORF:</b>   | 1455 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, FANCI (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 (2) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting isoform (2) is shorter than 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 non-AUG start codon (CUG at nt 115) is inferred from the human orthologous gene (GeneID:2178) that encodes a functionally important protein.</p> |