

Product datasheet for MR222128

Fancl (NM_025923) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fancl (NM_025923) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fancl
Synonyms:	2010322C19Rik; AW554273; B230118H11Rik; gcd; P; Phf; Phf9; Pog
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222128 representing NM_025923 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGAAGCAGAAGCAAGCCTGTTGCGCCATTTCCGCTGCTACTTCTCAGAACCGGGAGAAAATG
TGTATGAGGGATTCATTCGGCTCAGGGAAGTACTTTCCACCTCAGAATAGTGTGCCTAAGGACCTGCA
GCTCAAGAAGGCAAGATTACTGTGTAGCCTGCAGCTGAAAAATACTTAATGAGTACCATCAAGTAGTC
CAACAGAGAATGAAGCACTCTCCTGATCTAATGAGTTTTATGATGAATTGAAGATGATTTTGAAGTTG
CTTTAAAGAATAAGCAAGAGTTGTGTACAACCCTTCTTGCAAGTTTCTGCAAAGACCTTCTTACTGA
GATAGGAGCCATTGGTTGGGATAAACTCGCATGTGTGGAGAGTTCTTCAGCACCATCAAGTTAAAAGCA
GATGATGCTTCTGGTAGGAAGCACCTAATCACTGTCAAGTTGAAGGCAAAGTATCCTGTAGAGCCACCAG
ATTGTGTTGTGGACTTTCTGTCCCATTTTCTGTTTCTGGACACCACAGAGCTCCTTGGTAGATGTTTA
TAGTCAGTTCTTGGTGGCATTAGAGACGCTGAAGGTGTTCTGGGATGTTATGGATGAAATGATGAGAAG
ACCTGGGTGCTGGAGCCAGAGAAACCTCCCGGAGTGCAACAGCACGCAGGATTGCATTAGGAAAGAAATG
TTCCATAGCCATCGAGGTGGACCCAGGCACCCTACCATGCTTCTGAGTTTTGCTTTCTTGGAGCTGA
CCATGTGACAAAACCCCTGGGAATGAAGCTGAGTGGTAGCATTATTTATGGGATCCAGAAAATAGTCTG
TTACAAAATTTGAAAGATGTTTTAGAAATGATTTCCAGCTCGTAGTATCTTGGGAAGAACTGACTTTA
GCATGGACTGTGGAATCTGTTATGCCCGTCACCTGAATGGTGCCATTCTGATCAAGTGTGTAATAATCC
CCAGTGTGGACAACCTTTCCATGAAATATGTCTGTATGAGTGGCTGAGAGGGTTGAGCACCAGCAGACAG
AGTTTTAACGTCTTCTTGGTACTGTCCCTATTGTAGTAAGCCAATTACCTTGAATGTCTGGGAGAA
AACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222128 representing NM_025923
 Red=Cloning site Green=Tags(s)

MDEAEASLLRHFPLLLPQNREKTVYEGFISAQGSDFHLRIVLPKDLQLKKARLLCSLQLKNILNEYHQVV
 QQRMKHSPDLMSFMELKMLEVALKKNQELCVQPPSCSFCKDLLTEIGAIGWDKLACVSSFSTIKLKA
 DDASGRKHLITVKLKAKYPVEPPDCVVDFFVPVFSVSWTPQSSLVDVYSQFLVALETLKVFWDVMDEIDEK
 TWVLEPEKPPRSATARRIALGKNVSI AIEVDPRHPTMLPEFCFLGADHVTKPLGMKLSGSIHLWDPENSL
 LQNLKDVLEIDFPARSILEESDFSMDCGICYARHLNGAIPDQVCNNPQCGQPFFEICLYEWLRGLSTSRQ
 SFNVFFGDCPYCKPITLKMSGRKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025923

ORF Size: 1125 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_025923.3](#)

RefSeq Size: 1798 bp

RefSeq ORF: 1128 bp

Locus ID: 67030

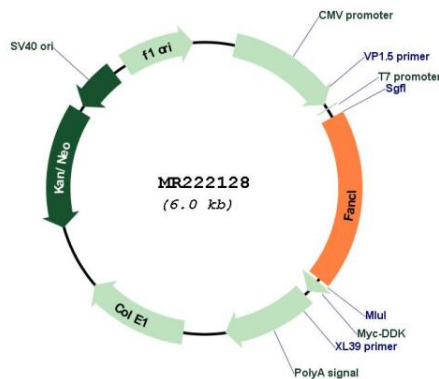
UniProt ID: [Q9CR14](#)

Cytogenetics: 11 A3.3

MW: 42.5 kDa

Gene Summary: This gene encodes the complementation group L subunit of the multimeric Fanconi anemia (FA) nuclear complex composed of proteins encoded by over ten Fanconi anemia complementation (FANC) group genes. The FA complex is necessary for protection against DNA damage. This gene product, an E3 ubiquitin ligase, catalyzes and is required for the monoubiquitination of the protein encoded by the Fanconi anemia, complementation group D2 gene, a critical step in the FA pathway (PMID: 12973351, 21229326). In mouse, mutations of this E3 ubiquitin ligase gene can lead to infertility in adult males and females, and a deletion of this gene can cause embryonic lethality in some genetic backgrounds. A pseudogene of this gene has been identified on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Product images:



Circular map for MR222128