

Product datasheet for MR229536

Fancl (NM_001277273) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Fancl (NM_001277273) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Fancl
 Synonyms: 2010322C19Rik; AW554273; B230118H11Rik; gcd; P; Phf; Phf9; Pog
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >MR229536 representing NM_001277273
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACGAAGCAGAAGCAAGCCTGTTGCGCCATTTCCCGCTGCTACTTCCTCAGAACCGGGAGAAAACCTG
 TGTATGAGGGATTCAATTCGGCTCAGGGAAGTACTTTCACCTCAGAATAGTGTGCCTAAGGACCTGCA
 GCTCAAGAAGGCAAGATTACTGTGTAGCCTGCAGCTGAAAAATACTTAATGAGTACCATCAAGTAGTC
 CAACAGAGAATGAAGCACTCTCCTGATCTAATGAGTTTTATGATGGAATTGAAGATGATTTTGGAAAGTTG
 CTTTAAAGAATAAGCAAGAGTTGTGTGTACAACCCTTCTTGCAAGTTTCTGCAAAGACCTTCTTACTGA
 GATAGGAGCCATTGGTTGGGATAAACTCGCATGTGTGGAGAGTTCCTTCAGCACCATCAAGTTAAAAAGCA
 GATGATGCTTCTGGTAGGAAGCACCTAATCACTGTCAAGTTGAAGGCAAAGTATCCTGTAGAGCCACCAG
 ATTGTGTTGTGGACTTTCCTGTCCATTTCTGTTTCTGGACACCACAGAGCTCCTTGGTAGATGTTTA
 TAGTCAGTTCTTGGTGGCATTAGAGACGCTGAAGGTGTTCTGGGATGTTATGGATGAAATTGATGAGAAG
 ACCTGGGTGCTGGAGCCAGAGAAAACCTCCCGGAGTGCAACAGCACGCAGGATTGCATTAGGAAAGAATG
 TTTCCATAGCCATCGAGGTGGACCCAGCACCCTACCATGCTTCTGAGTTTTGCTTTCTGGAGCTGA
 CCATGTGACAAAACCCCTGGGAATGAAGCTGAGTGGTAGCATTATTTATGTCTGTTACAAAATTTGAAA
 GATGTTTTAGAAAATTGATTTCCAGCTCGTAGTATCTTGAAGAATCTGACTTTAGCATGGACTGTGGAA
 TCTGTTATGCCCGTCACCTGAATGGTGCCATTCTGATCAAGTGTGTAATAATCCCGAGTGTGGACAACC
 TTTCCATGAAATATGTCTGTATGAGTGGCTGAGAGGGTTGAGCACCAGCAGACAGAGTTTTAACGCTTTC
 TTTGGTACTGTCCCTATTGTAGTAAGCCAATTACCTTGAATGTCTGGGAGAAAACCT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229536 representing NM_001277273
 Red=Cloning site Green=Tags(s)

MDEAEASLLRHFPLLLPQNREKTVYEGFISAQGSDFHLRIVLPKDLQLKKARLLCSLQLKNILNEYHQVV
 QQRMKHSPDLMSFMMELKMLEVALKKNQELCVQPPSCSFCKDLLTEIGAIQWDLKACVSSFSTIKLKA
 DDASGRKHLITVKLKAKYPVEPPDCVDFPVVPSVSWTPQSSLVDVYSQFLVALETLKVFWDVMDEIDEK
 TWVLEPEKPPRSATARRIALGKNVSI AIEVDPRHPTMLPEFCFLGADHVTKPLGMKLSGSIHLCLLQNLK
 DVLEIDFPARSILEESDFSMDCGICYARHLNGAIPDQVCNNPQCGQPHEICLYEWLRGLSTSRQSFNVF
 FGDCPYCSKPITLKMGRKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

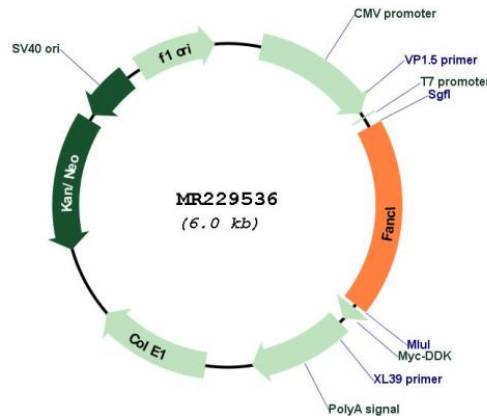
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001277273

ORF Size:	1110 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:	<ol style="list-style-type: none">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_001277273.1 , NP_001264202.1
RefSeq Size:	1783 bp
RefSeq ORF:	1113 bp
Locus ID:	67030
UniProt ID:	Q9CR14
Cytogenetics:	11 A3.3
MW:	42.4 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]