OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC113748

FANCL (NM_018062) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FANCL (NM_018062) Human Untagged Clone
Tag:	Tag Free
Symbol:	FANCL
Synonyms:	FAAP43; PHF9; POG
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC113748 sequence for NM_018062 edited (data generated by NextGen Sequencing)

ATGGCGGTGACGGAAGCGAGCCTGTTGCGCCAGTGCCCCCTGCTTCTGCCCCAGAACCGG
TCGAAAACCGTGTATGAGGGATTCATCTCGGCTCAGGGAAGAGACTTCCACCTTAGGATA
GTGTTGCCTGAAGATTTACAACTGAAGAATGCAAGATTATTATGTAGTTGGCAGCTGAGA
ACAATACTTAGTGGATACCATCGAATAGTACAACAGAGAATGCAGCACTCTCCTGATCTA
ATGAGCTTTATGATGGAGTTGAAGATGCTTTTGGAAGTTGCCTTAAAGAATAGACAAGAG
CTGTATGCACTACCTCCTCCTCCCCAGTTCTACTCAAGCCTTATTGAAGAGATAGGAACT
CTTGGTTGGGATAAACTTGTGTATGCGGATACCTGCTTCAGTACCATCAAGTTAAAAGCA
GAAGATGCTTCTGGTAGAGAGCATTTAATCACTCTCAAGTTGAAGGCAAAGTATCCTGCA
GAATCACCAGATTATTTTGTGGATTTTCCTGTTCCATTTTGTGCCTCCTGGACACCTCAG
AGCTCCTTAATAAGCATTTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCATTC
TGGGATGTTATGGATGAAATCGATGAGAAGACCTGGGTACTTGAGCCAGAAAAACCTCCA
CGGAGTGCAACAGCACGCAGAATTGCATTAGGTAATAATGTTTCCATAAATATAGAGGTA
GACCCCAGGCATCCTACTATGCTTCCTGAGTGCTTCTTTTTTGGAGCTGACCATGTGGTA
AAACCCCTGGGAATTAAGCTGAGCAGGAACATACATTTGTGGGATCCAGAAAATAGTGTG
TTACAAAATTTGAAAGATGTTTTAGAAATTGATTTTCCAGCTCGTGCTATCCTGGAAAAA
TCTGATTTTACTATGGATTGTGGAATTTGTTATGCTTATCAACTTGACGGTACCATTCCT
GATCAAGTGTGTGATAATTCCCAGTGTGGACAACCTTTCCATCAAATATGCTTATATGAG
TGGCTGAGAGGACTACTAACTAGTAGACAGAGTTTTAACATCATATTTGGTGAATGTCCA
TATTGTAGTAAGCCAATTACCTTAAAAATGTCTGGAAGGAAACACTGA

Clone variation with respect to NM_018062.3
760 c=>t;981 t=>c

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018062 unedited
NNGGGTGCACATTTGTATACGACTCACTATAGGCGGCCGCGATTCGGCACGAGGCAGGTC
TAGAGCTTTTCTGTGTTTCTCCGGACTTCGAGCCATGGCGGTGACGGAAGCGAGCCTGTT
GCGCCAGTGCCCCCTGCTTCTGCCCCAGAACCGGTCGAAAACCGTGTATGAGGGATTCAT
CTCGGCTCAGGGAAGAGACTTCCACCTTAGGATAGTGTTGCCTGAAGATTTACAACTGAA
GAATGCAAGATTATTATGTAGTTGGCAGCTGAGAACAATACTTAGTGGATACCATCGAAT
AGTACAACAGAGAATGCAGCACTCTCCTGATCTAATGAGCTTTATGATGGAGTTGAAGAT
GCTTTTGGAAGTTGCCTTAAAGAATAGACAAGAGCTGTATGCACTACCTCCTCCTCCCCA
GTTCTACTCAAGCCTTATTGAAGAGATAGGAACTCTTGGTTGGGATAAACTTGTGTATGC
GGATACCTGCTTCAGTACCATCAAGTTAAAAGCAGAAGATGCTTCTGGTAGAGAGCATTT
AATCACTCTCAAGTTGAAGGCAAAGTATCCTGCAGAATCACCAGATTATTTTGTGGATTT
TCCTGTTCCATTTTGTGCCTCCTGGACACCTCAGAGCTCCTTAATAAGCATTTATAGTCA
GTTTTTGGCAGCAATAGAATCACTAAAGGCATTCTGGGATGTTATGGATGAAATCGATGA
GAAGACCTGNGTACTTGAGCCAGANAAACCTCCACGGAGTGCAACAGCACGCAGAATTGC
ATTAGGTAATAATGTTTCCATAAATATAGAGGTAGACCCCAGGCATNCTACTATGCTTNC
TGAGTGCTTCTTTTTTGGAGCTGACCATGTGGTAAAACCCCTGNGAATTAAGCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018062 unedited
ACGCGGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTGATCTTGTATAACATTT
TATTTAGCATTCTTACACACTACACAAAATAAATACTTGGATAACTCACGTCTAACAAAC
TAAACTATACTATGTATTCTTTCTCCATAGGGAAAGCACAAGGAGAAGACAGAAATATCA
AGAGTCTCAAGAACCTTTGAATGAAGTAAACAGTTTCCCACAAAAAATCAGCTATACACA
ATTCCCAAACTCATTTTATGAGCCTCATCAAGATTTTACCAGTCCAGATATATTCAAGAA
GTCAAGATCTCCATCTTGGTATAAATACACTTCCACAGTCAGCACGGGGATCACAGACTT
AGAAAGTTCAACTGGACTTTGGCCTACAATTTCCCAGTTTACTCTTAGTGAAGAGACAAA
CGCAGATGTTTATTATTATCGCATCATCATACCTGTCCTTTTGATGTTAGTATTTCTTGC
TTTATTTTTTCTCTGAAGATGATACCAAAATTCCTTTTGATAATTTTTTAAGTTTCCAGC
TCTTCACCGAAATGTTGTATTCTTATTTCAGTGTTTCCTTCCAGACATTTTTAAGGTAAT
TGGCTTACTACAATATGGACATTCACCAAATATGATGTTAAAACTCTGTCTACTAGTTAG
TAGTCCTCTCAGCCACTCATATAAGCATATCTGATGGAAAGGCTGTCCACACTGGGAATT
ATCACACACTTGATCAGGAATGGTACCGTCAAGTTGATAAGCCTAACAAATTCCACACTC
CTATAAAATCAGATTTTCCAGATAGACGAGCTGGAAAATAATTTCTAAACATCTTCGAAT
TTGCACACACTTTTTTTGAATCCACAAATGATGTGCTGCTCACTAATCCACAGGTTTACA
CATGGCACCTCCAAAGAACCCCAGGACCTGTAGAGGCCGGGTCTACTT

Restriction Sites: ECoRI-NOT

ACCN: NM_018062

Insert Size: 1730 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_018062.2, NP_060532.2
RefSeq Size:	1750 bp
RefSeq ORF:	1128 bp
Locus ID:	55120
UniProt ID:	Q9NW38
Cytogenetics:	2p16.1
Protein Pathways:	Ubiquitin mediated proteolysis
Gene Summary:	This gene encodes a ubiquitin ligase that is a member of the Fanconi anemia complementation group (FANC). Members of this group are related by their assembly into a common nuclear protein complex rather than by sequence similarity. This gene encodes the protein for complementation group L that mediates monoubiquitination of FANCD2 as well as FANCI. Fanconi anemia is a genetically heterogeneous recessive disorder characterized by cytogenetic instability, hypersensitivity to DNA crosslinking agents, increased chromosomal breakage, and defective DNA repair. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2018] Transcript Variant: This variant (2) has an alternate splice site in the CDS, as compared to variant 1. The resulting isoform (2) lacks an internal segment and has identical N- and C-termini, as compared to isoform 1.