

Product datasheet for **SC306469**

FANCB (NM_152633) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	FANCB
Synonyms:	FA2; FAAP90; FAAP95; FAB; FACB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC306469 representing NM_152633.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTAGCAACAAGCAATGTCATCTAACGAACAAGAAAGGCTCTTGTTATAATGGGGAAGTCCTT
GTTTTCCAGTTGTCTAAAGGAAATTTGCAGATAAAGAGCCTACAAAACACCCATATTACATGTCAGA
AGAATGGTATTGACAGAGGAACAAAAGTATTTGTTTCAGAAAGTCCACTGGATTTTTTACCATAAAGGAA
GAAAATCTCATTAAAAATCATGTGTGCAACTGTGTGTCAGATTTTCAGAACTGGAATTAACCTCCCT
TACATTGTGATAGAAAAATAAAAAAGAATAATGTTTTGAATATTTTTTACTAATCCTTCACAGTACT
AATAAATTTGAAATGCGTTTGAGTTTTAACTAGGCTATGAGATGAAGGATGGCCTAAGGGTCCTTAAT
GGCCCTTTAATTTTATGGAGGCATGTCAAAGCATTCTCTTTATCTCTTCTCAAACCTGGCAAAGTTGTT
AGTGTGTGAGGTAATTTCTCTATTGAGTGGCAGGGGAGATTGAAAATTTAGGTATGGTTTTATTG
GGACTAAAGGAATGTTGTTTATCTGAGGAAGAATGACTCAAGAGCCTTCAAATCAGATTATGCAATT
TGGAATACCAAATTTGTGTATATTCTCTGAAAGTCAAGAAGTATTAAGTGATATATACATTATTCCT
CCTGCTTACAGCAGTGTGGTGAATTTGTACATATTTGTGCAACTGAGATCATCAAAAACCAAGTTAAGA
ATATCTCTCATTGCCCTTACTCGAAAGAATCAGCTGATTTTCATTTCAGAACTGGAATCCTAAAAATGTG
TGCCAGCTTCCATTTGGAGATCCTGTGCAAGTCAACTTATGGATTCAGGTGGAGGAAACCTCTTTTTT
GTTGTATCCTTTATATCCAATAATGCTTGTGCTGTATGGAAGAGAGCTTTCAGGTTGCTGCTAAATGG
GAAAAACTTAGCTTAGTACTGATAGATGACTTTTATGGAAAGTGGAACTGAACAAGTACTCCTACTTTTT
AAGGACTCCTTGAAGTCAAGTGCCTGACTTCATTTAAATAACGGATCTTGGAAAAATAAACTATTG
AGTGAACCATCAGATTGCAATGAAGATGACTTATTTGAAGCAACAAGAGAATCGTTACCTGGTGGTT
CCACCTCTAGAAACAGGACTGAAAGTTTGTCTTTCTCTTTTCGGGAATTACGGCAGCATCTGTTGCTT
AAGGAAAAAATTATTTCAAAATCTTACAAAGCTTTAATAAACCTAGTTCAAGGAAAAAGATGATAACG
TCAAGTGCAGAGGAGAAGGAATGTCTTGTCTCTTTGTGGTGAAGAAGAAAATCTGTCCATATCTTA
GATGAAAGTTATCAGACAATTTCAAGATTGAGAACAGCTAGTAGAGAAGATATGGTATCGTGTAATA
GATGATAGCTTGGTTGTTGGAGTGAAGTACATCTTCTTTGAAGCTGTCCTGAATGATGTGACTTTA
TCATTGTTAATGGATCAAGCCCATGACTCCAGATTTTCGGCTTCTAAAGTGTCAAAATAGGGTGATTAAG
TTGAGTACAAATCCTTTCCAGCACCATACTTGATGCCATGTGAAATAGGATTGGAAGCAAAAAGGGTC
ACGTTGACCCCTGATAGCAAGAAAGAGGAAAGCTTTGTTTGTGAACACCCATCTAAGAAAGAGTGTGTA
CAGATAATTACTGCTGAACATCTCTTCCACCTTTTAACTTCAGTAAATTTTGTGCACTGTACTG
CTACAAATTATGGAGAGAGAAAGTGGTAACTGTCTAAAGATCGTTATGTTGTGTGTGGCAGAGTTTTT
TTAAGTCTAGAAGATCTTTCAACTGGGAAGTACCTACTGACATTTCCAAAGAAGAAACCTATAGAGCAC
ATGGAAGATCTTTTGCATCTTGCAGCATTCATAAATCTTGTTTTCAAATCACATCACCCGGCTAT
GCCCTGAATTCATGAAGGTGTGGCTCTTAGAACATATGAAATGTGAAATAATCAAAGAATTTCCAGAA
GTGACTTTTTGTGAAAGACCGGGAAGTTTCTATGGGACACTTTCACCTTGGAAACAGAGAACACCATTC
GAAGGGATTTTAATCTATTCCAGGAATCAAACAGTTATGTTCCAGTGCCTTCATAATCTCATCAGA
ATTCTCCCTATAAACTGTTTCTCAAAATCTAAATCAGGAAGTGAAGTTTCTAATTGATAATATG
GCATTTACTTTGGAGAAGGAAGTGTACCCCTTAGTTCTCTTCTCTGCCATAGCTAAACATGAAAGC
AATTTTATGCAGAGGTGTGAAGTGAAGCAAGGAAAGAGTAGTGTCGCGGGCTGCTTTATCAGACAGA
AGGGAAAAATCCATCCCTACAGAAAAGAACTTCAGAGAGAAAAGAAAATGTTGCAAACGAACCTA
AAAGTGAGTGGTGCCTTTACAGAGAAATAAATTTGAAAGTAGTGAGGTTGAGTTGAAATCAGACTTT
GCTGCACAGAACTGAGTAATTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

Sgfl-MluI

ACCN:

NM_152633

Insert Size:

2580 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
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_152633.3
RefSeq Size:	2894 bp
RefSeq ORF:	2580 bp
Locus ID:	2187
UniProt ID:	Q8NB91
Cytogenetics:	Xp22.2
MW:	97.7 kDa

Gene Summary:

This gene encodes a member of the Fanconi anemia complementation group B. This protein is assembled into a nucleoprotein complex that is involved in the repair of DNA lesions.

Mutations in this gene can cause chromosome instability and VACTERL syndrome with hydrocephalus. [provided by RefSeq, Apr 2016]

Transcript Variant: This variant (2) lacks an alternate exon in the 5' UTR, compared to variant 1. Variants 1, 2, and 3, encode the same protein.