

Product datasheet for **MR222598**

Fancc (NM_001042673) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fancc (NM_001042673) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fancc
Synonyms:	Facc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR222598 representing NM_001042673
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCAGGAGTCTGCAGACCTTGCTTCTGACTGTCAGTCTTGGCTGCAGAAGCTTTCTGCATGGGAAC
 AGGCCTCTTCTGAGGAAACCCAGAAGGACACTTGTCTTCACTTGTCCGGTTCAGGAGTTCCTGAGGCA
 GATGTATGAAATCTTGAAGGAGATGGATTCTGATGCAATCCTGGAAAGGTTCCCCACAATTGGTCAACTG
 TTGGCAAAGCTTGTGGAATCCTCTCATCTTAGCATATGATGAAAGCCAAAAAATTGTAATATGGTGCT
 TATGTTGTCTGATGAACAAAGAACCTCGGACTTCTGCAGAGTCAGGACTTAACCTGGTCCGGGGTTT
 GTTATCTCATGTACTTTCTGCATTCAGATTCGACATGAAAGAAGTTTGTCTTTTACCAAAAGTCTTGG
 TATGAGTCTATTGATTACTATCCTAGTTTGTCTAAAAATATGGTTTTGTCATTAGTGTCTGAGCTCAG
 AGAGTCATCTTAATGGACTGAGCACTCAAAGTCGGATGGCTCCTGAGCGCATGATGTCCCTGTCAGAAGT
 TTGTGTCCCTCTGTCACTCTGCCTGATATGGAACCCCTGGTAGAGGCTCTACTCACCTACCATGGACAT
 GAGCCCCAGGAAGTCTGGCTCCTGAGTCTTTCGAAGCTGTAATGAGGCCTTCTTGTCCGAAAAAATTG
 TTCTACCCACGTCTCTGTGGTCAAGCTCTGGTTTCGGCATCTCCCCAGTCTTGA AAAAGCAACCGTGA
 TCTTTTGA AAAAGCTTTTCTCCAGCAAGATAATTTGCCTGAGAAGGATGGAGTGTGATAAGAGAGTCA
 TTCTGCTCAAGCAGCCTGCCAACCTGCCATCTCAGAATTGTTGATGAAATGTTACAGTGTGCTGCTG
 TGGAAACTGACGGAGCCCCAGAAGTACTAGTGTCTTTCAGGTTTTACATCGTGTCTGGTAGAAGCTCT
 GAAAAAGAAAAACAAGCAGCTGACGTTTGCCTCAGGACCTACTTTCCTTACGGTGTCCATGTCTTGTCT
 GCAGCGCTGTCCCAGCACCTGAAGCAATCCCACAGGGACACCGGCTCCAGCCTCTGCTGCACATTTCCC
 AACTCCTCAGAGAAGCAGTTGAAGACTGTACTCGTGGTCTCCGGGAAATCCCTTTGAGAGCTGGTTTTT
 GTTTGTTCACTTTGGAGGATGGGTTGACCTGGCTGTGGCAGAGTACTGCTGAGGGAGGAAGCTGAGCCT
 CCTGCTGGCCTGTGTGGCTCTTGGTGTCTATTACAGCCACAGGATGGGAGTCAAGAGAGAGAGCAGA
 GCATGGTGGAGCTGAAGGTATTAATCAACCGTCTCCTGATGCTGCTCAGAAGCGGCCCTCTCAGCTAC
 TGATCTGCAGGAAGCAGCTGAGAGTCCCAGTGGAGACCCAGACCCTGTATGTGGACAGCTGGTCAGA
 CGCCTTCTTCTAGTCTTGTCTGGACCCAGAAGGCCATGCAATTGTCTGGGAAAGCTGTACCCATA
 TGGCCACACGGATGCTGTAATCCATGAGATTATTGGTTTTCTTGACCAGACCTGTACAGATCACAA
 TCTTTGTGTTGAAGCCTCGAAAACTGGCCAGAGACCTCTAAAGGAGCTGCAAGCCAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222598 representing NM_001042673
 Red=Cloning site Green=Tags(s)

MAQESADLASDCQSWLQKLSAWEQASSEETQKDTCLHLSGFQEFRLRQMYEILKEMDSAILERFPTIGQL
 LAKACWNPLILAYDESQLIWIWCLCCLMNKEPRTSAESGLNSWIRGLLSHVLSAFRFDMKEVCLFTKSLG
 YESIDYPSLLKNMVL SLVSELRESHLNGLSTQSRMAPERMMSLSEVCPVPLVTLPDMEPLVEALLTYHGH
 EPQEVLAPEFFAVNEAFLSEKIVLPTSSVVSLWFRHLPSLEKATLHLFEKLFSSKIIICLRRECCIRES
 FLPQAACQPAIFRIVDEMFRFVLLLETDGAPEVLAALQVFTSCLVEALKKENKQLTFALRITYFPYGAPCLA
 AALSQHPEAIPQGHRLQPLLHISQLLREAVEDCTRGSPRNPFWFLFVHFGGWVDLAVAELLLREEAEP
 PAGLLWLLVFYSPQDGSQQREQSMVELKVLINRLLMLLRSGPLSATDLQEAESPSPGDRPPVCGQLVR
 RLLLSLLLWTPEGHAIVWEAVTHMAHTDAVIHEIIGFLDQTLYRSQHLVCVEASRKLARDLLKELQAQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

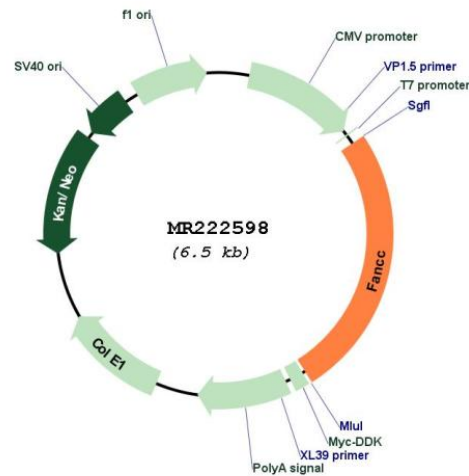
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001042673
ORF Size:	1674 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_001042673.2 , NP_001036138.1
RefSeq Size:	3169 bp
RefSeq ORF:	1677 bp
Locus ID:	14088
Cytogenetics:	13 32.8 cM
MW:	63.7 kDa
Gene Summary:	DNA repair protein that may operate in a postreplication repair or a cell cycle checkpoint function. May be implicated in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability. Upon IFNG induction, may facilitate STAT1 activation by recruiting STAT1 to IFNGR1 (By similarity).[UniProtKB/Swiss-Prot Function]