

## Product datasheet for **MG222598**

### Fancc (NM\_001042673) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fancc (NM_001042673) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fancc
Synonyms:	Facc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222598 representing NM\_001042673  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCAGGAGTCTGCAGACCTTGCTTCTGACTGTCAGTCTTGGCTGCAGAAGCTTTCTGCATGGGAAC  
 AGGCCTCTTCTGAGGAAACCCAGAAGGACACTTGTCTTCACTTGTCCGGTTCAGGAGTTCCTGAGGCA  
 GATGTATGAAATCTTGAAGGAGATGGATTCTGATGCAATCCTGGAAGGTTCCCCACAATTGGTCAACTG  
 TTGGCAAAGCTTGTGGAATCCTCTCATCTTAGCATATGATGAAAGCCAAAAAATTGTAATATGGTGCT  
 TATGTTGTCTGATGAACAAAGAACCTCGGACTTCTGCAGAGTCAGGACTTAACCTGGTCCGGGGTTT  
 GTTATCTCATGTACTTTCTGCATTCAGATTCGACATGAAAGAAGTTTGTCTTTTACCAAAAGTCTTGG  
 TATGAGTCTATTGATTACTATCCTAGTTTGTCTAAAAATATGGTTTTGTCATTAGTGTCTGAGCTCAG  
 AGAGTCATCTTAATGGACTGAGCACTCAAAGTCGGATGGCTCCTGAGCGCATGATGTCCCTGTCAGAAGT  
 TTGTGTCCCTCTTGTCACTCTGCCTGATATGGAACCCCTGGTAGAGGCTCTACTCACCTACCATGGACAT  
 GAGCCCCAGGAAGTCTGGCTCCTGAGTCTTTCGAAGCTGTAATGAGGCCTTCTTGTCCGAAAAAATTG  
 TTCTACCCACGTCTCTGTGGTCAAGCCTCTGGTTTCGGCATCTCCCCAGTCTTGA AAAAGCAACGCTGCA  
 TCTTTTGA AAAAGCTTTTCTCCAGCAAGATAATTTGCCTGAGAAGGATGGAGTGTGATAAGAGAGTCA  
 TTCCTGCCTCAAGCAGCCTGCCAACCTGCCATCTCAGAATTGTTGATGAAATGTTCAAGTTTGTGCTGC  
 TGGAAACTGACGGAGCCCCAGAAGTACTAGCTGCTCTTCAGGTTTTACATCGTGCTTGGTAGAAGCTCT  
 GAAAAAGAAAACAAGCAGCTGACGTTTGCCCTCAGGACCTACTTTCCTTACGGTGTCCATGTCTTGCT  
 GCAGCGCTGTCCCAGCACCTGAAGCAATCCCACAGGGACACCGGCTCCAGCCTCTGCTGCACATTTCCC  
 AACTCCTCAGAGAAGCAGTTGAAGACTGTACTCGTGGTCTCCGGAAATCCCTTTGAGAGCTGGTTTTT  
 GTTTGTTCACTTTGGAGGATGGGTTGACCTGGCTGTGGCAGAGTTACTGCTGAGGGAGGAAGCTGAGCCT  
 CCTGCTGGCCTGTGTGGCTCTTGGTGTCTATTACAGCCACAGGATGGGAGTCAAGCAGAGAGAGCAGA  
 GCATGGTGGAGCTGAAGGTATTAATCAACCGTCTCCTGATGCTGCTCAGAAGCGGCCCTCTCAGCTAC  
 TGATCTGCAGGAAGCAGCTGAGAGTCCCAGTGGAGACCCAGACCCTGTATGTGGACAGCTGGTCAGA  
 CGCCTTCTTCTAGTCTTGTCTGGACCCAGAAGGCCATGCAATTGTCTGGGAAGCTGTACCCATA  
 TGGCCACACGGATGCTGTAATCCATGAGATTATTGGTTTTCTTGACCAGACCTGTACAGATCACAA  
 TCTTTGTGTTGAAGCCTCGAAAACTGGCCAGAGACCTCTAAAGGAGCTGCAAGCCAGTCT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG222598 representing NM\_001042673  
 Red=Cloning site Green=Tags(s)

MAQESADLASDCQSWLQKL SAWEQASSEETQKDTCLHLSGFQEFLRQMYEILKEMSDAILERFPTIGQL  
 LAKACWNPLILAYDESQKIVIWCLCCLMNKEPRTSAESGLNSWIRGLLSHVL SAFRFDMEVCLFTKSLG  
 YESIDYYPSSLKMNVL SLVSELRESHLNGLSTQSRMAPERMMSLSEVCPVPLVTL PDMEPLVEALLTYHGH  
 EPQEVLAPEFFEAVNEAFLSEKIVLPTSSVSLWFRHLP SLEKATLHLFEKLFSSKIIICLRRMECCIRES  
 FLPQAACQPAIFRIVDEMFRV LLETGAPVLAALQVFTSCLVEALKKENKQLTFALR TYFYPYAPCLA  
 AALSQHPEAIPQGHRLQPL LHISQLLREAVEDCTRGS PRNPFESWFLFVHFGGWVDLAVAELLLREEAEP  
 PAGLLWLLVFYYSPODGSQQREQSMVELKVLINRLLMLLRSGPLSATDLQEA AESPSPGDRPPVCGQLVR  
 RLLLSLLLWTPEGHAIVWEAVTHMAHTDAVIHEIIGFLDQTLYRSQHLCVEASRKLARDLLKELQAQV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

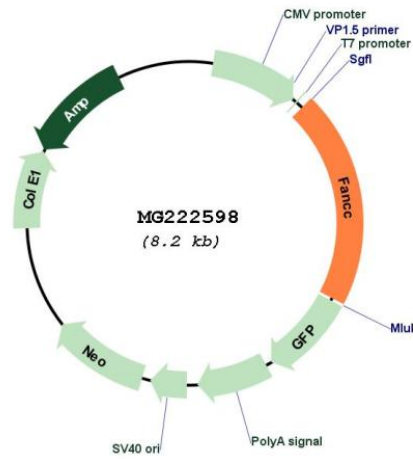
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001042673
<b>ORF Size:</b>	1674 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001042673.2</a> , <a href="#">NP_001036138.1</a>
<b>RefSeq Size:</b>	3169 bp
<b>RefSeq ORF:</b>	1677 bp
<b>Locus ID:</b>	14088
<b>Cytogenetics:</b>	13 32.8 cM
<b>Gene Summary:</b>	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]