

## Product datasheet for **MG222128**

### Fancl (NM\_025923) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fancl (NM_025923) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fancl
Synonyms:	2010322C19Rik; AW554273; B230118H11Rik; gcd; P; Phf; Phf9; Pog
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222128 representing NM_025923 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGAAGCAGAAGCAAGCCTGTTGCGCCATTTCCCGCTGCTACTTCCTCAGAACCGGGAGAAAACCTG  
TGTATGAGGGATTCATTTGCGCTCAGGGAAGTACTTTCCACCTCAGAATAGTGCTGCCTAAGGACCTGCA  
GCTCAAGAAGGCAAGATTACTGTGTAGCCTGCAGCTGAAAAATACTTAATGAGTACCATCAAGTAGTC  
CAACAGAGAATGAAGCACTCTCCTGATCTAATGAGTTTTATGATGGAATTGAAGATGATTTTGGAGTTG  
CTTTAAAGAATAAGCAAGAGTTGTGTACAACCCTTCTTGCAAGTTTCTGCAAAGACCTTCTTACTGA  
GATAGGAGCCATTGGTTGGGATAAACTCGCATGTGTGGAGAGTTCTTCAGCACCATCAAGTTAAAAGCA  
GATGATGCTTCTGGTAGGAAGCACCTAATCACTGTCAAGTTGAAGGCAAAGTATCCTGTAGAGCCACCAG  
ATTGTGTTGTGGACTTTCTGTCCCATTTTCTGTTTCTGGACACCACAGAGCTCCTTGGTAGATGTTTA  
TAGTCAGTTCTTGGTGGCATTAGAGACGCTGAAGGTGTTCTGGGATGTTATGGATGAAATGATGAGAAG  
ACCTGGGTGCTGGAGCCAGAGAAACCTCCCCGGAGTGAACAGCACGCAGGATTGCATTAGGAAAGAATG  
TTCCATAGCCATCGAGGTGGACCCAGGCACCCTACCATGCTTCTGAGTTTTGCTTTCTTGGAGCTGA  
CCATGTGACAAAACCCCTGGGAATGAAGCTGAGTGGTAGCATTTATGGGATCCAGAAAATAGTCTG  
TTACAAAATTTGAAAGATGTTTTAGAAATGATTTCCAGCTCGTAGTATCTTGGAAAGAACTGACTTTA  
GCATGGACTGTGGAATCTGTTATGCCCGTCACCTGAATGGTGCCATTCTGATCAAGTGTGTAATAATCC  
CCAGTGTGGACAACCTTTCCATGAAATATGTCTGTATGAGTGGCTGAGAGGGTTGAGCACCAGCAGACAG  
AGTTTTAACGTCTTCTTGGTACTGTCCCTATTGTAGTAAGCCAATTACCTTAAAAATGTCTGGGAGAA  
AACCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222128 representing NM\_025923  
 Red=Cloning site Green=Tags(s)

MDEAEASLLRHFPLLLPQNREKTVYEGFISAQGSDFHLRIVLPKDLQLKKARLLCSLQLKNILNEYHQVV  
 QQRMKHSPDLMSFMELKMLEVALKKNQELCVQPPSCSFCKDLLTEIGAIGWDLACVSSFSTIKLKA  
 DDASGRKHLITVKLKAKYPVEPPDCVVDFFVPVFSVSWTPQSSLVDVYSQFLVALETLKVFWDVMDEIDEK  
 TWVLEPEKPPRSATARRIALGKNVSI AIEVDPRHPTMLPEFCFLGADHVTKPLGMKLSGSIHLWDPENSL  
 LQNLKDVLEIDFPARSILEESDFSMDCGICYARHLNGAIPDQVCNNPQCGQPFHEICLYEWLRLSTSRQ  
 SFNVFFGDCPYCSKPITLKMSGRKP

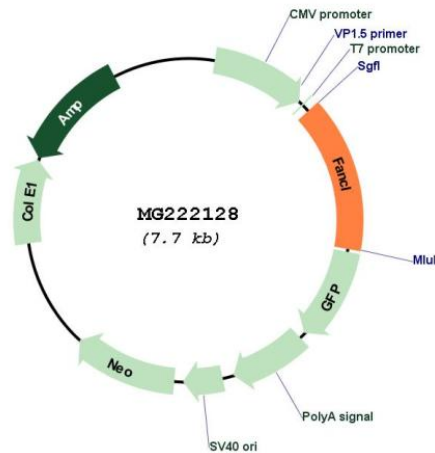
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_025923

<b>ORF Size:</b>	1125 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_025923.3</a>
<b>RefSeq Size:</b>	1775 bp
<b>RefSeq ORF:</b>	1128 bp
<b>Locus ID:</b>	67030
<b>UniProt ID:</b>	<a href="#">Q9CR14</a>
<b>Cytogenetics:</b>	11 A3.3
<b>Gene Summary:</b>	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]