

## Product datasheet for **MG220481**

### **Ttc22 (NM\_177667) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ttc22 (NM_177667) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ttc22
Synonyms:	4732467L16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220481 representing NM\_177667  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACGGAGGCCGAGGTCGGAGCCGAGGACCTGGACACCTTCTCGATGAACTGGACTATCTGCCGGCC  
 ACTTCCACCTGGAGATGCAGCTCAACTTCGAGCCGCGCTCACCCGCTCAGCTGCGCGCCCGGACCTGAA  
 GCTCCAGCGAGAGGGTCTGCGGCAGGAGCTGGAGCTGGTGGCCACCCCGAGCTGCCTGCCGTGCGTCAC  
 CTCTTGGGAACCTTTTCCTTCTACCTGGAGGAGCTGGGTGATGCCCGCAGCATTTCCTGGAAGTGGCC  
 GCAAAGACCTGGCAACCTCAACGCCTGGGCAATCTGGCACACGTCTACGGCAGCTGGCCAGGAAGA  
 AGAGGAGGAGCGTCCGCCGGCGACTGGCCAGCCTCATGGCCCTGGAAGGGGACCCGAGGATGCTGGA  
 GACCCAGGCTCCGCGCTGCCGCTGCCTGGCGGAGCAGGGATATGCGCATGGCTTCGACGTGGGCTGTG  
 CCAGTCCAGAGGAGCGCGCAGGTGCTGGAGGGGGCATCGCCCTCTACGACAAAGCGCTGGGCTATGG  
 TCAGCAGATCCCGATAGAAGAGAAAAGGAGCTGGTACTTACCATGGCAACTCTTTATCAGGCTGGAT  
 GGCATCTTTCTGGAGATGGCGAGTGGAGCAGAAAGAGGCTGCCAGCCTTCAACCGTACTCTGGCCTTGC  
 TCGGAGAGGTCTCAAGTCTCAGACTCCCGACACCAAGCTCTGGCCTGGTGTATGTGCGCATGCTGCT  
 GGAGAGAAAAGACACCTTCTCTACCACCCCTATGGGTGTCCATGAATACGGGTAATCGGGCAGAGGCC  
 CTGGACTGCTTTGGCAAGGCCATTGAGATCGCCAAGAACAACCTCCCATTCTGAATCGCCTGGCCAAAA  
 TCTTCCACTTCTTGGAAAGCAGGACATGGCCGTAGGAACCTGCAACATGGTCTGGCGGTGCTTACAGA  
 CCCAGAGCTCAACTGGCAGGCATACTGCACCAGGGCAAGGTCCGAATCAGAGCCTATGTCCATGACTTG  
 GAACAAGTGGTCAAGGTGTGCCAAGCCTCAGGACCTACCTAGATATCAGTCAGTTTACTACTACATGG  
 AGGATGCCATGCGGGAGCTGCTGGCAGTGGATGAAGCTGCGCTCAACCAGGCTCTGGTCTTCTCGCG  
 AAGGCCGTGAGTTGGAGCTAGGTGACACGCTGCCCGAAGTGAAGTGTGCGCGCAAATGCCTACGTG  
 TCCAGGTTGAGGATGCCAACGCTGCGGCCTGCTTCAAGCGTGGCCTAGAGCTGGACGACGAGGGATCCAG  
 CCATACCGAGGGCTTCGGCTGCCTGCTCGAGGCATTGCTGGCCAGTGGAGCCAGGCGCAGCTGAGCGAT  
 GGTGAGGTGGGTACGAGGTGGACGTCTGGCTGCGCCATGCCAGGGCAAGTATCCGGCAGCAGCCCTGC  
 GCCAGGAGCTGCAGCGTGTGTGGCTGGCCATACGGAAGAGGTCTGGTCTGGCCCGGGCCTTAGTAGC  
 CCAGGGACGCCAGCACTGGTGGGCTGCTCTTTGAGACCATGGAGCATGAGGTTGAGGATGCTGGAGGG  
 TCAGGCAAAAGTCGAGTATCTCC

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG220481 representing NM\_177667  
 Red=Cloning site Green=Tags(s)

MTEAEVGAEDLDTLLDELDYLPGHFHEMQLNFEPRSPAQLRARDLKLQREGLRQELELVATPQLPAVRH  
 LLGTF SFYLEELGDAREHFLEVARKDPGNLNAWANLAHVYQLGQEEEEASAGRLASLMGLEDPEDAG  
 DPRLRAARCLAEQGYAHGFVGCASPEERAQVLEAGIALYDKALGYGQQIPIEEKRSWYFTMATLFI  
 RLDGIFLEMGSEEQKRLPAFNRTLALLGEVLKSSDSRHQALAWCYVGMILLERKDTFSTTPMGVHE  
 YGYSGTEP LDCFGKAIEIAKNQPPILNRLAKIFHFLGKQDMAVGTGNMVLAVLTDPELNWQAYCT  
 RAKVRIRAYVHDL ERAKVGLGGLPDRNHLACAKADLEEVVKVCPSLRITYLDISQVYYMGMVDAM  
 RELAVDEAALNQLVFLA KAGELELGDTPQLRGLRQVQGEDANAAACFKRAVELDDEGSSHTEGFG  
 CLLEALLAQWSQAQLSD GEVGYEVDVWLRHAQGYPAARLRQELQRVWRGHTEEVGLLARALVAQ  
 GRPALVRLLFETMEHEGEDAGG SKKSRVSS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_177667

**ORF Size:** 1704 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:**

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\\_177667.5](#)

**RefSeq Size:** 2535 bp

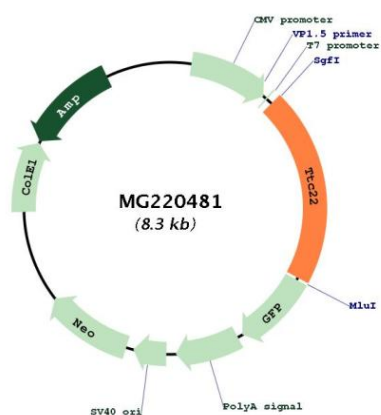
**RefSeq ORF:** 1707 bp

**Locus ID:** 230576

**UniProt ID:** [Q8C159](#)

**Cytogenetics:** 4 C7

Product images:



Circular map for MG220481