

## Product datasheet for **MG225533**

### Tcirg1 (NM\_016921) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tcirg1 (NM_016921) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tcirg1
Synonyms:	ATP6a3; Atp6j; ATP6N1C; oc; OC-116; OPTB1; Stv1; TIRC7; Vph1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG225533 representing NM\_016921  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTCTATGTTCCGGAGTGAAGAGGTGGCCTTGGTCCAGCTCCTGTTGCCACAGGGTCTGCTTACA  
 ACTGTGTGAGCCAGCTTGGTGTGAGCTGGGCCTCGTGGAGTTCAGAGACCTCAACGAATCCGTGAGCGCCTT  
 CCAGAGACGCTTCGTGGTAGACGTCCAGCGCTGCGAGGAAGTGGAGAAGACGTTTACCTTCTTCCGGGAA  
 GAAGTGCAGCGGGCAGGTCTGACGCTGGCCCCACCTGAGGGGACACTGCCAGCACCACTCCCCGAGACC  
 TGCTGCGCATCCAGGAGGAAACGGATCGCTTGGCCCAGGAGCTTCGGGATGTTCTGTGGCAATCAGCAGGC  
 ACTGCGGGCCAGCTGCACCAGCTGCGGCTTCACTCGGCTGTGCTGGGCCAGAGCCACAGCCCGCCGGTG  
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 CAGACCTGAAGGTCAATTTGTGGCAGGTGCTGTGGAGCCCTACAAGGCTGCGGCCCTGGAGCGCCTGCT  
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 TGATGGAGGGGCTCTCAGCCTTCTGCATGCCCTGCGGTTGCACTGGGTGGAGTTCAGAACAAAGTTCTA  
 TTCAGGCACCGGCTACAAGCTCAGCCCCTCACCTTCACTGTGGACAGTGAC

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG225533 representing NM\_016921  
 Red=Cloning site Green=Tags(s)

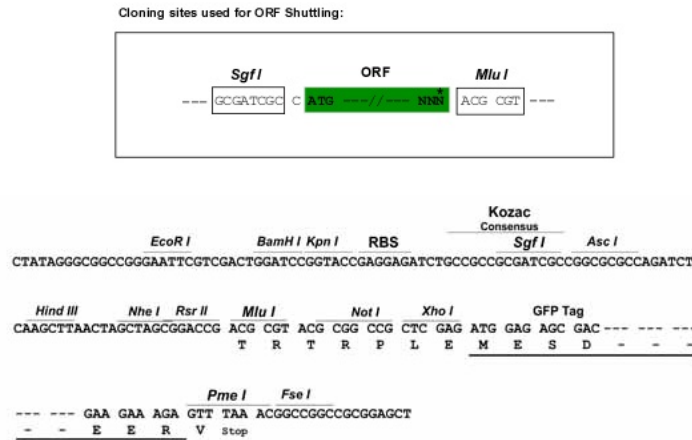
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MGS MFRSEEVALVQLLLPTGSAYNCVSQLGELGLVEFRDLNESVSASFQRRFVVDVQRCEELEKTF TFLRE
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AADHTEGPFSETTPLLPGTRGPHSDLKVN FVAGAVEPYKAAALERLLWRACRGFLIASFRETEGQLED PV
TGEPATWMTFFVISYWGEQIGQKIRKITDCFHCHVFPYLEQEEARFRTLQQLQQQSQELQEV LGETDRFLS
QVLGRVQQLLPPWQVQIHKMKAVYLT LNQCSVNTTHKCLIAEVWCAARDLPTVQQALQSGSSEEGVSAVA
HRIPCQDMPPTLIRTNRFTSSFQGI VDAYGVGRYREVNPA PYTIIITFPFLFAVMFGDVGHLLMFLFALA
MVLTENRPAVKAAQNEIWQTFFGGRY LLLLMLGFSVYTGFIYNECF SRATTIFPSGWSVAAMANQSGWSD
EYLSQHSMLTLNPNITGVFLGPYPFGIDPIWSLATNHLSFLNSFKMKMSVILGVTHMAFGVFLSIFNHVH
FGQSHRLLLETLPELIFLLGLFGYL VFLIVYKWNVNSAASASSAPSIL IHFINMFLFSQNPTNHLLFHGQ
EVVQYVLVV LALATVPILL LGTPLYLLRQHRHRNTQRRPAGQQDEDTKLLASPDASTLENSWSPDEEK
AGSPGDEETEFVPSEIFMHQAIHTIEFCLGCISNTASYLR LWALSLAHAQLSEVLWAMVMRIGLGMGREI
GVAAVVLVPVFAAFVLTVAILLVMEGLSAFLHALRLHWVEFQNKFYSGTGYKLSPTFTTVDS D
  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_016921

ORF Size: 2502 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\\_016921.2](#)

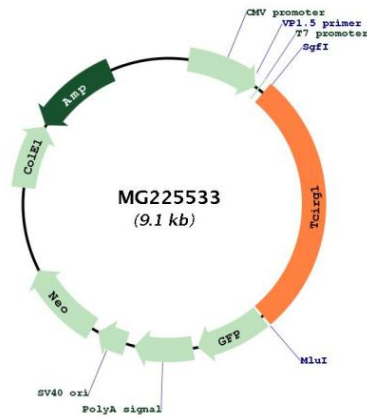
**RefSeq Size:** 2741 bp

**RefSeq ORF:** 2505 bp

**Locus ID:** 27060

**Cytogenetics:** 19 3.62 cM

**Product images:**



Circular map for MG225533