

## Product datasheet for **MG204566**

### Tfec (NM\_031198) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tfec (NM\_031198) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tfec  
**Synonyms:** BB107417; bHLHe34; Tcfec  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204566 representing NM\_031198  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTTTGACTGTGGGTATGCGACCAGACTCTCAAGAGAGCGCAGCCTCCAGCAGCCAGCTGCATGC  
CTCTGGCAGAGCATGAACCCATGAGCCCAGACAGTGTGCTGGCTGTGCAGGAAACCCATTACAAAATCT  
GCTGGCTCTGGGAAAAAGATGGTGTGAGAAATGGCATTATCTGGGAGTATTTGGATGTGTACAGT  
GATGAGCAGGGCATTCTTCAGCTAATGCTGGTCTCACGGATGCTCCTTGTCCAAGTATTCTACCCATGA  
GAAAGGAAATTGCAGAACTGATGGTAGAGCTTTGGCAAAGGAGAGACAGAAAAAGACAACCACAACCT  
CATTGAAAGAAGAAGAAGGTATAATATTAATTACCGAATCAAGGAGCTTGGCACTCTTATCCAAAGTCT  
AATGATCCTGATATGCGCTGGAACAAAGGGACCATTCTAAAGGCATCAGTGGACTACATCAAGTGGCTAC  
AAAAAGAACAACAGAGAGCCCGGGAGTTAGAACACAGACAGAAGAAATTAGAACATGCTAACCGTCAGCT  
TAGGCTCCGGATTAGGAACTAGAAATACAAGCACGTGCTCATGGTCTACCAATCCTGGCTTCACTCGGC  
ACAGCTGATGTTGGTACCCACATCACCAAGCAGCAGACCCATCCTGAGAGGAACTTAGGAGGCTGTTGCT  
TACAACGACTCCAACCTCAGGGGACAAGCCCGGAGTCTATGAGCAAGCTGTGGCTTTCTCTGATCCATT  
GTCTCACTTACAGATTTATCCTTTAGTGCCGCTTTGAAAGAGGAACAAAGATTGGATGGCATGCTACTA  
AGTGATACAATATGCCCTTTGGGACGGACCCACTACTCTGCCATTTCCCTCGAGTTTCCAAAGCTA  
GCAGCCGAAGCAGCCTTAGCTCAGAGGATGGTGTGAGTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204566 representing NM\_031198  
 Red=Cloning site Green=Tags(s)

MTFDCRVCDQTLKRAQPPAASCMPPLAEHEPMSPDSDAGCAGNPFNLLALGKKDGAEKWHLSGSILDVYS  
 DEQGISSANAGLTDAPCPSILPMRKEIAETDGRALAKERQKKNHNLIERRRYININRIKELGTLIPKS  
 NDPDMRWNGTILKASVDYIKWLQKEQQRARELEHRQKLEHANRQLRLRIQELEIQARAHGLPILASLG  
 TADVGHITKQQTHPERNLGGCCLQLTPTQGTSPPEFYEQAVAFSDPLSHFTDLSFSAALKEEQRLDGMLL  
 SDTICPFGTDLLSAISPAVSKASSRSSLSSDGDDEL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

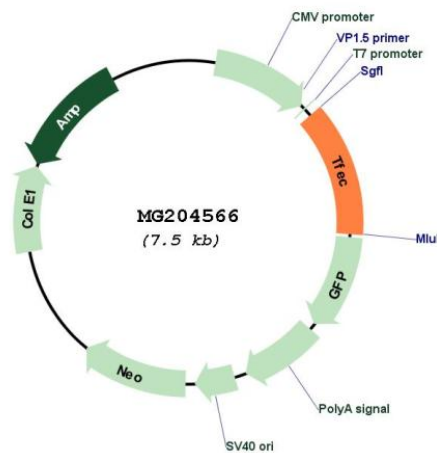
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_031198

**ORF Size:** 951 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_031198.3</a> , <a href="#">NP_112475.1</a>
<b>RefSeq Size:</b>	1788 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	21426
<b>UniProt ID:</b>	<a href="#">Q9WTW4</a>
<b>Cytogenetics:</b>	6 A2
<b>Gene Summary:</b>	Transcriptional regulator that acts as a repressor or an activator. Acts as a transcriptional transactivator on the proximal promoter region of the tartrate-resistant acid phosphatase (TRAP) E-box containing promoter. Collaborates with MITF in target gene activation. Acts as a transcriptional repressor on minimal promoter containing element F (that includes an E-box sequence) (By similarity). Binds to element F in an E-box sequence-specific manner (By similarity). Acts as a transcriptional repressor on minimal promoter containing mu E3 enhancer sequence (By similarity). Binds to mu E3 DNA sequence of the immunoglobulin heavy-chain gene enhancer (By similarity). Binds DNA in a homo- or heterodimeric form. [UniProtKB/Swiss-Prot Function]