

## Product datasheet for **MG203300**

### Trh (NM\_009426) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Trh (NM_009426) Mouse Tagged ORF Clone                                      |
| Tag:                      | TurboGFP  |
| Symbol:                   | Trh   |
| Synonyms:                 | Pro-TRH; Trf  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG203300 representing NM_009426<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGGGACCTTGGCTGATGATGGCTCTGGCTTTGATCTTCGTGCTAACTGGTATCCCCAAATCTCGC  
CCTTGCTGGAAGCAGCCAGGAGGAAGGTGCTGTGACTCCTGACCTTCAGGCCTGGAGAAAGTCCAGGT  
CCGGCCAGAACGTCGATTCTTGAGGAAAGACCTCCAGCGTGTGCGAGGGGACCTTGGTGTGCCTTAGAT  
TCCTGGATCACAAAACGCCAGCATCCGGGCAAAGGGAGGAGAAGTTGGAAGACGAAGCCGAAGAGAGGG  
GAGATTTGGGAGAAGTGGGAGCCTGGAGACCCCAAAACGACAGCACCCCTGGCCGACGTGCCAACCAAGA  
CAAGGATTCATGGTCAGATGAGGGGACAGTACTGGCTGCCCCCGTCTGGCTACCAGATTTCTTCTG  
GATTCCTGGTTCTCAGATGCCCCCAAGTCAAGCGGCAGCACCCCTGGCAGGCGATCCTTCCCTGGATGG  
AGTCTGATGTCACCAAGAGGCAGCATCCAGGCCGAGGTTTCATAGATCCTGAGCTCCAAAGAAGCTGGGA  
AGAAACAGAGGGAGAGGAGGGTGGCTTAATGCCTGAGAAACGTCAGCATCCTGGCAAAGGGCAGTGGGT  
CACCCCTTGTGGGCCCCAGGGGATTTGTGGCAAACAGGCCTGCTCCAGCTTCTAGGTGACCTGAGTAGGG  
GCCAGGAGACCTGGCAAAGCAAACCCCAACTGGAAGCCTGGGTCAGGGAACCTCTGGAGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203300 representing NM\_009426  
 Red=Cloning site Green=Tags(s)

MQGPWLMALALIFVLTGIPKSCALLEAAQEAGVTPDLPGLEKVQVRPERRFLRKDLQVRGDLGAALD  
 SWITKRQHPGKREEKLEDEAEERGDLEVGAWRPHKRQHPGRRANQDKDSWSDEGSDWLPSSWLPDFFL  
 DSWFSDAPQVKRQHPGRRSFPWME SDVTKRQHPGRRFIDPELQRSWEETE GEEGLMPEKRQHPGKRAVG  
 HPCGPQIGCGTGLLQLLGDLSRGQETLAKQTPQLEAWVREPLEE

TRTRPLE - GFP Tag - V

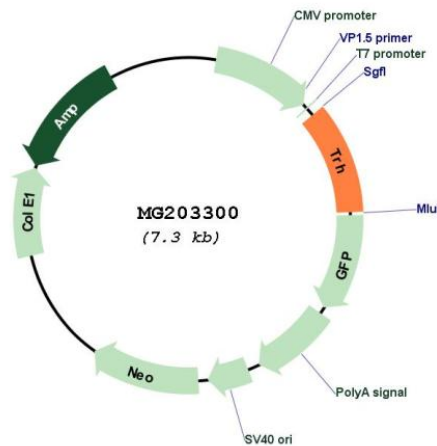
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_009426

**ORF Size:** 768 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_009426.2</a> , <a href="#">NP_033452.2</a>  |
| <b>RefSeq Size:</b>           | 1381 bp  |
| <b>RefSeq ORF:</b>            | 771 bp   |
| <b>Locus ID:</b>              | 22044  |
| <b>UniProt ID:</b>            | <a href="#">Q62361</a>   |
| <b>Cytogenetics:</b>          | 6 41.03 cM   |
| <b>Gene Summary:</b>          | This gene encodes a member of the thyrotropin-releasing hormone family. Cleavage of the encoded proprotein releases mature thyrotropin-releasing hormone, which is a tripeptide hypothalamic regulatory hormone. The mouse proprotein contains five thyrotropin-releasing hormone tripeptides. Thyrotropin-releasing hormone is involved in the regulation and release of thyroid-stimulating hormone, as well as prolactin. Disruption of this gene results in hypothyroidism, elevated thyroid-stimulating hormone levels, and hyperglycemia. [provided by RefSeq, Apr 2013] |