

Product datasheet for MR203300

Trh (NM_009426) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trh (NM_009426) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trh
Synonyms:	Pro-TRH; Trf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203300 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGCAGGGACCTTGGCTGATGATGGCTCTGGCTTTGATCTTCGTGCTAACTGGTATCCCCAAATCCTGCG
CCTTGCTGGAAGCAGCCAGGAGGAAGGTGCTGTGACTCCTGACCTTCCAGGCCTGGAGAAAGTCCAGGT
CCGGCCAGAACGTCGATTCTTGAGGAAAGACCTCCAGCGTGTGCGAGGGGACCTTGGTGTGCCTTAGAT
TCCTGGATCACAAAACGCCAGCATCCGGGCAAAGGGAGGAGAAGTTGGAAGACGAAGCCGAAGAGAGGG
GAGATTTGGGAGAAGTGGGAGCCTGGAGACCCACAAACGACAGCACCCCTGGCCGACGTGCCAACCAAGA
CAAGGATTCATGGTCAGATGAGGGGACAGTGACTGGCTGCCCCCGTCTGGCTACCAGATTTCTTCTG
GATTCCTGGTTCTCAGATGCCCCCAAGTCAAGCGGCAGCACCCCTGGCAGGCGATCCTTCCCTGGATGG
AGTCTGATGTCACCAAGAGGCAGCATCCAGGCCGAGGTTATAGATCCTGAGCTCCAAAGAAGCTGGGA
AGAAACAGAGGGAGAGGAGGGTGGCTTAATGCCTGAGAAACGTCAGCATCCTGGCAAAGGGCAGTGGGT
CACCTTGTGGGCCCCAGGGATTTGTGGCAAACAGGCCTGCTCCAGCTTCTAGGTGACCTGAGTAGGG
GCCAGGAGACCTGGCAAAGCAAACCCACAACCTGGAAGCCTGGGTCAGGGAACCTCTGGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203300 protein sequence
 Red=Cloning site Green=Tags(s)

MQGPWLMALALIFVLTGIPKSCALLEAAQEAGVTPDLPGLEKVQVRPERRFLRKDLQVRGDLGAALD
 SWITKRQHPGKREEKLEDEAEERGDLEVGAWRPHKRQHPGRRANQDKDSWSDEGSDWLPSSWLPDFFL
 DSWFSDAPQVKRQHPGRRSFPWMESDVTKRQHPGRRFIDPELQRSWEETEGEGLMPEKRQHPGKRAVG
 HPCGPQIGCGQTGLLQLLGDLSRGQETLAKQTPQLEAWVREPLEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009426

ORF Size: 768 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_009426.1](#), [NM_009426.2](#), [NM_009426.3](#), [NP_033452.2](#)

RefSeq Size: 1400 bp

RefSeq ORF: 771 bp

Locus ID: 22044

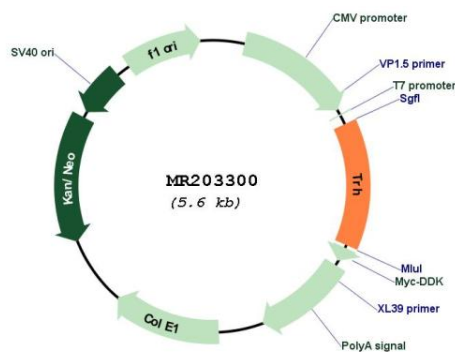
UniProt ID: [Q62361](#)

Cytogenetics: 6 41.03 cM

MW: 29.1 kDa

Gene Summary: 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]

Product images:



Circular map for MR203300