

Product datasheet for **MC228233**

Treh (NM_001277847) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Treh (NM_001277847) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Treh
Synonyms:	2210412M19Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228233 representing NM_001277847
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCTGGGAGCTGCACCTGCTGCTTCTGCTGGGGCTGGGACTTAGGTCCCAGGAGGCCCTGCCACCAC
 CCTGTGAGAGATCTACTGCCATGGAGAGCTCCTGCACCAAGTTCAGATGGCCCAGCTCTACCAAGATGAC
 AAGCAGTTTGTGGATATGTCACCTGGCCACATCTCCAGATGAAGTCCTGCAGAAGTTCAGTGAGCTGGCCA
 CAGTCCACAACCACAGCATCCCCAAGGAACAGCTTCAGGAATTTGTCCAGAGTCACTTCCAGCCCGTGGG
 GCAGGAGCTGCAGTCTGGACCCCTGAGGACTGGAAGGACAGCCCTCAGTTCTGCAGAAGATCTCGGAT
 GCTAATCTGCGTGTCTGGGCGGAGGAGCTACACAAGATCTGGAAAAAGCTGGGAAAGAAGGGACTCGTAC
 TGGGTGATGGAAGGCCTGCTTCTTTCTGAGATGGCCTCAACAGTGAAGGGTATGCTGCAAACTTTCTGG
 ATCTGGTGAAGACCTACGGACATATCCCAACGGTGGACGCATATATTACCTGCAACGGAGCCAGCCCC
 ACTCCTGACTCTCATGATGGATCGATATGTAGCTCATACCAAGGATGTGCGCTTCTTCAGGAGAATATT
 GGGACTTAGCCTCTGAACTGGACTTCTGGACTGTGAACAGGACTGTCTCTGTAGTCTCAGGAGGACAAA
 GCTATGTCTTAAATCGCTACTATGTCCCTTATGGGGGACCCAGGCCAGAGTCTACAGGAAAGACGCAGA
 ATTGGCAAACCTGTGCCAGAAGGGGACCGAGAGACTCTGTGGCTGAGCTCAAGGCTGGGGCTGAGTCT
 GGCTGGGACTTCTCTTACGCTGGCTTGTGGAGGCCAGACCCTGATTTGCTCAGCAGCATCCGAACCA
 GCAAAATGGTACCCGCTGATCTGAACCGGTTCTGTGCCAAGCAGAGGAACTGATGAGTAACTTCTACTC
 CAGACTAGGGAACGACACAGAGGCCACAAAGTACAGGAACCTGCGGGCCAGCGCTTGGCCGCCATGGAA
 GCTGTCTGTGGGACGAGCAGAAGGGTGCCTGGTTTGACTATGACTTGGAAAAGGGGAAGAAGAACCTGG
 AGTTTATCCCTCCAACCTCTCCCACTTTGGGCTGGCTGCTTTCAGACCCTAGTGTGCTGACAAGGC
 TCTGAAGTACTTGGAGGACAGCAAGATCTTGACCTACCAATATGGAATCCCAACCTCTCTTCGTAACACA
 GGCCAGCAGTGGGACTTCCCAATGCCTGGGCCCACTGCAGGACCTGGTCATTAGAGGTTTGGCCAAGT
 CAGCTTCCCCCGGACTCAGGAGGTGGCTTCCAGCTGGCCAGAATTGGATCAAAACCACTTCAAAGT
 CTACTCCAAAAGTCAGCGATGTTTGAAGATGACATCAGCAACGGTGGACATCCAGGTGGAGGAGGG
 GAGTATGAAGTTCAGGAAGGATTTGGCTGGACAACGGATTGGCCCTGATGCTTCTGGATCGCTATGGT
 ACCAGTTGACTTCAGGGACCCAGTTAGCTTCCCTGGGACCCCACTGCCTAGTGGCTGCCCTTCTTCTCAG
 TCTTCTGCTACAG**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-RsrII
- ACCN:** NM_001277847
- Insert Size:** 1626 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001277847.1](#), [NP_001264776.1](#)

RefSeq Size: 1943 bp

RefSeq ORF: 1626 bp

Locus ID: 58866

Cytogenetics: 9 A5.2

Gene Summary: This gene belongs to the alpha-glucosidase family, whose members encode enzymes that carry out hydrolysis of alpha-glucoside bonds of a variety of carbohydrates. The enzyme encoded by this gene uses the disaccharide trehalose as a highly specific substrate and converts it into two glucose molecules. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2013]
Transcript Variant: This variant (2) uses an alternate splice site causing a frameshift in the 5' coding region, and lacks an alternate exon in the 5' coding region which corrects the frameshift, compared to variant 1. It encodes isoform 2, which is shorter and contains an alternate internal segment, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.