

## Product datasheet for **MR208643**

### Treh (BC019214) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Treh (BC019214) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Treh
Synonyms:	2210412M19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208643 representing BC019214  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCTGGGAGCTGCACCTGCTGCTTCTGCTGGGGCTGGGACTTAGGTCCCAGGAGGCCCTGCCACCAC  
 CCTGTGAGAGATCTACTGCCATGGAGAGCTCCTGCACCAAGTTCAGATGGCCAGCTCTACCAAGATGAC  
 AAGCAGTTTGTGGATATGTCACCTGGCCACATCTCCAGATGAAGTCCTGCAGAAGTTCAGTGAGCTGGCCA  
 CAGTCCACAACCACAGCATCCCCAAGGAACAGCTTCAGGAATTTGTCCAGAGTCACTTCCAGCCCGTGGG  
 GCAGGAGCTGCAGTCTGGACCCCTGAGGACTGGAAGGACAGCCCTCAGTTCTGCAGAAGATCTCGGAT  
 GCTAATCTGCGTGTCTGGGCGGAGGAGCTACACAAGATCTGGAAAAAGCTGGGAAAGAAGGGACTCGTAC  
 TGGGTGATGGAAGGCCTGCTTCTTTCTGAGATGGCCTCAACAGTGAAGGGTATGCTGCAGAACTTCTGG  
 ATCTGGTGAAGACCTACGGACATATCCCAATGGTGGACGCATATATTACCTGCAACGGAGCCAGCCCC  
 ACTCCTGACTCTCATGATGGATCGATATGTAGCTCATACCAAGGATGTGCCTTCTTCAGGAGAATATT  
 GGGACTTAGCCTCTGAAGTGGACTTCTGGACTGTGAACAGGACTGTCTCTGTAGTCTCAGGAGGACAAA  
 GCTATGTCTTAAATCGCTACTATGTCCCTTATGGGGGACCCAGGCCAGAGTCTACAGGAAAGACGCAGA  
 ATTGGCAAACCTGTGCCAGAAGGGGACCGAGAGACTCTGTGGCTGAGCTCAAGGCTGGGGCTGAGTCT  
 GGCTGGGACTTCTCTTACGCTGGCTTGTGGAGGCCAGACCCTGATTTGCTCAGCAGCATCCGAACCA  
 GCAAAATGGTACCCGCTGATCTGAACCGGTTCTGTGCCAAGCAGAGGAACTGATGAGTAACTTCTACTC  
 CAGACTAGGGAACAACACAGAGGCCACAAAGTACAGGAACCTGCGGGCCAGCGCTTGGCCGCCATGGAA  
 GCTGTCTGTGGGACGAGCAGAAGGGTGCCTGGTTCGACTATGACTTGGAAAAGGGGAAGAAGAAGCTGG  
 AGTTTTATCCCTCCAACCTCACCCACTTTGGGCTGGCTTCTCAGACCCTAGTGTGCTGACAAGGC  
 TCTGAAGTACTTGGAGGACAGCAAGATCTTGACCTACCAATATGGAATCCCAACCTCTCTTCGTAACACA  
 GGCCAGCAGTGGGACTTCCCAATGCCTGGGCCCCACTGCAGGACCTGGTCATTAGAGGTTTGGCCAAGT  
 CAGCTTCCCCCGGACTCAGGAGGTGGCTTCCAGCTGGCCAGAAATGGATCAAAACCAACTTCAAAGT  
 CTACTCCAAAAGTCAGCGATGTTTGAAGATGACATCAGCAACGGTGGACATCCAGGTGGAGGAGGG  
 GAGTATGAAGTTCAGGAAGGATTTGGCTGGACAAACGGATTGGCCCTGATGCTTCTGGATCGCTATGGT  
 ACCAGTTGACTTCAGGGACCCAGTTAGCTTCCCTGGGACCCCACTGCCTAGTGGTGCCTTCTTCTCAG  
 TCTTCTGCTACAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208643 representing BC019214  
 Red=Cloning site Green=Tags(s)

MTWELHLLLLLGLGLRSQEALPPPCERSTAMESSTKFRWPSSTKMTSSLWICHWPHLQMKSCRSSVSWP  
 QSTTTASPRNSFRNLSRVTSPPWGRSCSPGPLRTGRTALSSCRRSRMLICVSGRRSYTRSGKSWERRDSY  
 WYMEGLLLSEMASTVKGMLQNFLDLVKTYGHIPNGGRIYYLQRSQPPLLTLMMDRYVAHTKDVAFLQENI  
 GTLASELDFWTVNRTVSVVSGGQSYVLNRYVYPYGGPRPESYRKAELANSVPEGDRETLWAEKAGAES  
 GWDFSSRWLVGGPDPDLLSSIRTSKMVPADLNAFLCQAEELMSNFYSRLGNTEATKYRNLRAQRLAAME  
 AVLWDEQKGAWFYDLEKGGKNLEFYPSNLTPLWAGCFSDPSVADKALKYLEDSKILTYQYGIPTSLRNT  
 GQQWDFPNAWAPLQDLVIRGLAKSASPRTQEVAFQLAQNWIKTNFKVYSQKSAMFEKYDISNGGHPGGGG  
 EYEVQEGFGWTNGLALMLLDYGDQLTSGTQLASLGPCHLVAALLLSLLLQ

**SGP**TRRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** BC019214

**ORF Size:** 1623 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:** [BC019214.1](#)

**RefSeq Size:** 1972 bp

**RefSeq ORF:** 1625 bp

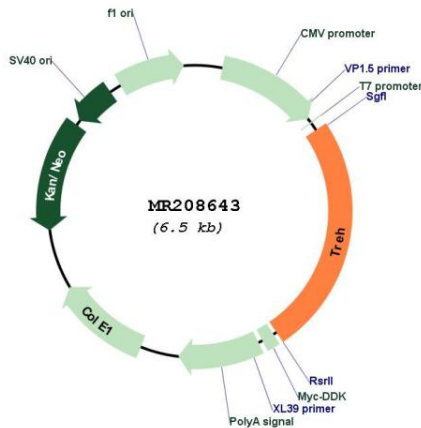
**Locus ID:** 58866

**Cytogenetics:** 9 A5.2

**MW:** 72.3 kDa

**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]

**Product images:**



Circular map for MR208643