

## Product datasheet for **RG238869**

### Trehalase (TREH) (NM\_001301065) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trehalase (TREH) (NM_001301065) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trehalase
Synonyms:	TRE; TREA; TREHD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG238869 representing NM\_001301065.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCAGGGAGGACCTGGGAGCTGTGCTGTCTACTGCTGCTGGGGCTGGGACTGGGGTCCCAGGAGGCC
CTACCCACCCCTGTGAGAGTGAGATTTACTGCCACGGGAGCTCCTAAACCAAGTTCAAATGGCCAAG
CTCTACCAGGATGACAAGCAGTTTGTGGACATGCCACTGTCTATAGCTCCAGAACAAGTCCCTGCAGACC
TTCACTGAGCTGTCCAGGGACCACAATCACAGCATCCCCAGGGAGCAGCTGCAGGCGTTTGTCCACGAA
CACTTCCAGGCCAAGGGGCAGGAGCTGCAGCCCTGGACCCTGCAGACTGGAAAGACAGCCCCAGTTC
CTGCAGAAGATTTAGATGCCAACTGCGTGCCTGGGCAGGGCAGCTGCATCAGCTCTGGAAGAAGCTG
GGGAAGAAGATGAAGCCAGAGTTCTCAGCCACCCTGAGCGTTCTCTCATCTACTCAGAACATCCC
TTCATTGTGCTGGCGTGCCTTTGTTGAGTTCTACTACTGCTATGGGCATGTCCCAATGGTGGGCGC
GTGTAACCTGCAGCGGAGCCAGCCCCACTCTTGACCCTCATGATGGATTGCTACTTGACTCACACC
AATGACACCGCCTTTCTACAGGAAAACATTGAAACACTAGCCTTGAATTGGACTTTTGGACCAAGAAC
AGGACTGTCTCTGTGAGCTTGGAGGGAAAGAACTACCTCCTGAATCGCTATTATGTCCTTATGGGGGA
CCCAGGCCTGAGTCTACAGCAAAGATGTGGAGTTGGCTGACACCTTGCCAGAAGGAGACCGGGAGGCT
CTGTGGGCTGAGCTCAAGGCTGGGGCTGAGTCTGGCTGGGACTTCTTTCACGCTGGCTCATTGGAGGC
CCAAACCCCAACTCGCTTAGCGGCATCCGAACAAGCAACTGGTGCCTGTTGACCTGAATGCCTTCTTA
TGCCAAGCAGAGGAGCTGATGAGCAACTCTATTCCAGGCTGGGGAACGACTCCCAGGCCACGAAGTAC
AGAATCCTGCGGTGCGAGCGCTTGGCCGCCCTGAACACAGTCTGTGGGATGAGCAGACCGGAGCCTGG
TTCGATTACGACCTTGAAGAAGAAGAAAAACCGGGAGTTTTACCCATCAACCTCACTCCACTCTGG
GCCGGGTGTTTTCTGACCTGGCGTGGCGGACAAGGCTCTGAAATACCTGGAGGACAACCGGATCCTG
ACTTACCAGTATGGGATCCCGACCTCTCTCCAGAAGACAGGCCAGCAGTGGGATTTCCCAATGCCTGG
GCCCCCTGCAGGACCTGGTCTCAGAGGCTGGCCAAGGCACCTTTACGTCGGGCCAGGAAGTGCT
TTCCAGCTGGCTCAGAATTGGATCCGAACCAATTTTGTGTCTACTCGCAGAAGTCAGCCATGTATGAG
AAGTATGACGTCAGAACGGTGGACAGCCCGTGGGGGAGGAGAATGAAGTTCAGGAGGGATTGGC
TGGACGAATGGCGTGGTCTGATGCTGCTGGACCCTATGGTACCAGGCTGACCTCAGGGCCAAGCTG
GCTTCTGGAGCCCACTGCCTGGCGGCCACCCTTCTGCCAGCCTCCTGCTCAGCCTCCTGCCATGG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
```

**Protein Sequence:**

>Peptide sequence encoded by RG238869  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MPGRTWELCLLLLLGLGLGSQEALPPPESEIYCHGELLNQVQMAKLYQDDKQFVDMPLSIAPEQVLQT
FTEL SRDHNHSIPREQLQAFVHEHFQAKGQELQPWTPADWKDSPQFLQKISDAKLRAWAGQLHLWKKL
GKKMKPEVLSHPERFSLIYSEHPFIVPGRFVEFYCYGHVPNGGRVYQLRSQPPLLTLMMDCYLTH
NDTAFLENIETLAELEDFWTKNRTVSVSLEGNLYLLNRYVYPYGGPRPESYSKDELADTLPEDREA
LWAEKGAESGWFSSRWLIGGPNPNSLSGIRTSKLVPVDLNAFLCQAEELMSNFYSRLGNSQATKY
RILRSQRLAALNTVLWDEQTGAWFDYDLEKKNREFYPSNL TPLWAGCFSDPGVADKALKYLEDNRIL
TYQYGIPTSLQKTGQQWDFPNAWAPLDL VIRGLAKAPLRAQEVAFQLAQNWIRTNFDVYSQSAMYE
KYDVSNGGQPGGGGEYEVQEGFGWTNGVLMMLLD RYGDRLTSGAKLAFLEPHCLAATLLPSLLL SLLPW
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001301065

**ORF Size:** 1656 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).

**RefSeq:** [NM\\_001301065.2](#)

**RefSeq Size:** 1781 bp

**RefSeq ORF:** 1659 bp

**Locus ID:** 11181

**UniProt ID:** [O43280](#)

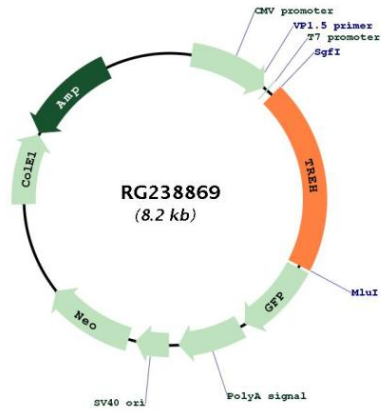
**Cytogenetics:** 11q23.3

**Protein Pathways:** Starch and sucrose metabolism

**MW:** 63.4 kDa

**Gene Summary:** This gene encodes an enzyme that hydrolyses trehalose, a disaccharide formed from two glucose molecules found mainly in fungi, plants, and insects. A partial duplication of this gene is located adjacent to this locus on chromosome 11. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG238869