

Product datasheet for **RC238869**

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:	Myc-DDK
Symbol:	TREH
Synonyms:	TRE; TREA; TREHD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238869 representing NM_001301065
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCAGGGAGGACCTGGGAGCTGTGCCTGCTACTGCTGCTGGGGCTGGGACTGGGTCCCAGGAGGCC
 TACCCCCACCCTGTGAGAGTGAGATTTACTGCCACGGGGAGCTCCTAAACCAAGTTCAAATGGCCAAGCT
 CTACCAGGATGACAAGCAGTTTGTGGACATGCCACTGTCTATAGCTCCAGAAAGTCTGCAGACCTTC
 ACTGAGCTGTCCAGGGACCACAATCACAGCATCCCCAGGGAGCAGCTGCAGGCGTTTGTCCACGAACACT
 TCCAGGCCAAGGGCAGGAGCTGCAGCCCTGGACCCTGCAGACTGGAAAGACAGCCCCAGTTCCTGCA
 GAAGATTTAGATGCCAAACTGCGTGCCTGGGCAGGGCAGCTGCATCAGCTCTGGAAGAAGCTGGGGAAG
 AAGATGAAGCCAGAGTTCTCAGCCACCCTGAGCGTTCTCTCATCTACTCAGAACATCCCTTCATTG
 TGCTGGCGGTGCTTTTGTGAGTTCTACTACTGCTATGGGCATGTCCCAATGGTGGGCGCGTGTACTA
 CCTGCAGCGGAGCCAGCCCCACTTTGACCCTCATGATGGATTGCTACTTGACTCACACCAATGACACC
 GCCTTTCTACAGGAAAACATTGAAACACTAGCCTTGAATTGGACTTTTGGACCAAGAACAGGACTGTCT
 CTGTGAGCTTGGAGGAAAGAACTACCTCCTGAATCGCTATTATGTCCCTTATGGGGGACCCAGGCTGA
 GTCCTACAGCAAAGATGTGGAGTTGGCTGACACCTTGCCAGAAGGAGACCGGGAGGCTCTGTGGGCTGAG
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 GCTGATGAGCAACTTCTATTCCAGGCTGGGGAACGACTCCCAGGCCACGAAGTACAGAATCTGCGGTGCG
 CAGCGCTTGGCCGCCCTGAACACAGTCTGTGGGATGAGCAGACCGGAGCCTGGTTGATTACGACCTTG
 AGAAGAAGAAGAAAACCGGGAGTTTTACCCATCCAACCTCACTCACTCTGGGCCGGTGTCTTCTGTA
 CCTGGCGTGGCGGACAAGGCTCTGAAATACCTGGAGGACAACCGGATCCTGACTTACCAGTATGGGATC
 CCGACCTCTCTCAGAAGACAGGCCAGCAGTGGGATTTCCCAATGCCTGGGCCCCCTGCAGGACCTGG
 TCATCAGAGGCTGGCCAAGGCACCTTTACGTCGGGCCAGGAAGTGGCTTTCAGCTGGCTCAGAATTG
 GATCCGAACCAATTTTGTGCTACTCGCAGAAGTCAAGCATGTATGAGAAGTATGACGTCAGCAACGGT
 GGACAGCCCGTGGGGAGGAGAATATGAAGTTCAGGAGGGATTTGGCTGGACGAATGGCGTGGTCTGA
 TGCTGCTGGACCCTATGGTACCAGGCTGACCTCAGGGGCCAAGCTGGCTTCTGGAGCCCCACTGCT
 GCGGCCACCCTTCTGCCAGCCTCTGCTCAGCTCCTGCCATGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238869 representing NM_001301065
 Red=Cloning site Green=Tags(s)

MPGRTWELCLLLLLLGLGLGSQEALPPPESEIYCHGELLNQVQMAKLYQDDKQFVDMPLSIAPEQVLQTF
 TELSRDHNHSIPREQLQAFVHEHFQAKQELQPWTPADWKDSPQFLQKISDAKLRAWAGQLHLWKKLKG
 KMKPEVLSHPERFSLIYSEHPFIVPGRFVEFYCYGHVPNGRYYLQRSQPPLTLMMDCYLTHTNDT
 AFLQENIETLALFLDFWTKNRTVSLSLEKNYLLNRYYPYGGPRPESYSKDVELADTLPEGDREALWAE
 LKAGAESGWDFSSRWLIGGPNPNSLSGIRTSKLVVDLNAFLCQAEELMSNFYSRLGNDSQATKYRILRS
 QRLAALNTVLWDEQTGAWFDYDLEKKKKNREFYPSNLTPWAGCFSDPGVADKALKYLEDNRILTYQYGI
 PLSLQKTGQQWDFPNAWAPLQDLVIRGLAKAPLRAQEVAFQLAQNWIRTNFDVYSQKSAMYEKYDVSNG
 GQPGGGGEYEVQEGFGWTNGVLLMLLDYGDRLTSGAKLAFLEPHCLAATLLPSLLLSPW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

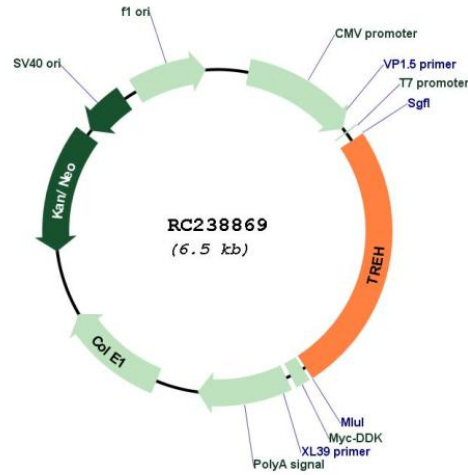
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
Reconstitution Method:	<ol style="list-style-type: none">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_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]