

Product datasheet for **MG205787**

Tdh (NM_021480) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tdh (NM_021480) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tdh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205787 representing NM_021480 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTATTCCTTGGGATGCTAAACAGGTGGTCAATGGGACTGCACAGAGCAAAGCCTCTAGCTGCCGGA
AGCTTGTCTTGCCTTGAAGTTTCTAGGCACCTCCCAGCACCGGATCCCAGCCGATGCCAACTTCCACTC
CACCTCGATCTCGGAAGCTGAGCCTCCTCGGGTCTTGATCACAGGGGGTCTTGGCCAGCTGGGGGTAGGA
CTTGCTAACCTCCTGAGGAAACGATTTGGGAAGAACAATGTGATCCTATCAGACATAAGGAAGCCCCCTG
CTCATGTCTTCCACAGTGGCCGTTTGTATGCCAACATCTTGGATTACAAGAGCCTCCGTGAGATCGT
GGTGAACCACCGTATCAGCTGGCTGTTTCACTACAGTGCCTGCTGAGTGCCGTGGGAGAGGCAAATGTG
TCCTTAGCCAGAGATGTGAATATAACTGGATTGCATAACGTTCTAGATGTTGCAGCTGAATACAACGTGA
GATTGTTTGTGCCCAGCACGATTGGAGCCTTTGGACCTACCTCTCCCGGAACCTGCACCCGATCTCTG
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TACCGGTACGGGTAGATTTTCGGTGCCTGCGTTATCCTGGAATCATTCTGCAGATTCCAGCCTGGAG
GAGGAACAACCTGACTACGCCGTCCAGATTTTCCACGCTGCAGCAAAGAACGGCACATTGAGTGCAACCT
CGAGGCTGGCACCAGGCTCCCAATGATGTACATCAGTACTGCCTCAGGGCCACCCTGGAGGTCATGGAA
GCCCTGCCGAGCGCCTGTCCATGAGAACCTACAACATCAGCGCCATGAGCTTACCCCCGAAGAGCTGG
CCAGGGCTCCGCAAGCACGCGCTGACTTCCAGATCACCCACTGCGTGGATCCCTCCGACAGGCCAT
AGCGGAGAGCTGGCCATGATTCTAGATGACAGCAATGCTCGGAAGGACTGGGGCTGGAAGCATGACTTT
GATCTTCCAGAGTTGGTGGCTACGATGCTCAACTTCCACGGCGTCAGCACCAGAGTTGCCAAGTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205787 representing NM_021480
 Red=Cloning site Green=Tags(s)

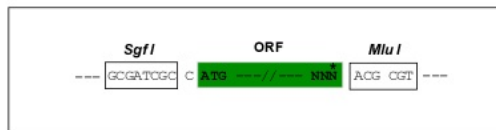
MLFLGMLKQVVNGTAQSKASSCRKLVLPKFLGTSQHRIPADANFHSTSISEAEPPrVLITGGLGQLGVG
 LANLLRKRFRGKNNVILSDIRKPPAHVFHSGPFVYANILDYKSLREIVVNHRI SWLFHYSALL SAVGEANV
 SLARDVNI TGLHNVL DVA AEY NVRLFV P STIGAFGPTSPRNPAPDL CIQRPRTI YGVSKVHTELMGEYYY
 YRYGLDFRCLRYPGIISADSQPGGGT TDYAVQIFHAAAKNGT FE CNLEAGTRLPMMYISDCLRATLEVME
 APAERLSMRTYNI SAMSFTPEELAQALRKHAPDFQITHCVDPLRQAIAESWPMILDDSNARKDWGWKHDF
 DLPELVATMLNFHGVSTRVAQVN

TRTRPLE - GFP Tag - V

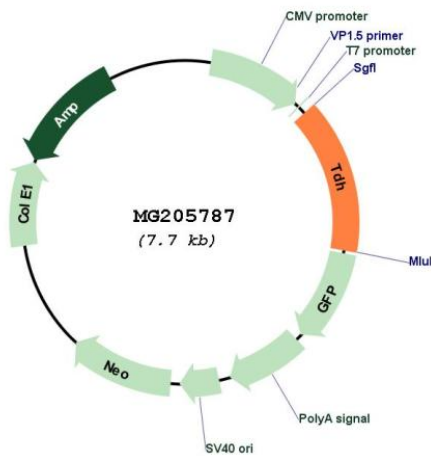
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_021480

ORF Size:	1119 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_021480.4 , NP_067455.4
RefSeq Size:	1946 bp
RefSeq ORF:	1122 bp
Locus ID:	58865
UniProt ID:	Q8K3F7
Cytogenetics:	14 D1
Gene Summary:	Catalyzes the NAD(+)-dependent oxidation of L-threonine to 2-amino-3-ketobutyrate, mediating L-threonine catabolism.[UniProtKB/Swiss-Prot Function]