

Product datasheet for **MG202140**

Trpt1 (NM_153597) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Trpt1 (NM_153597) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Trpt1
Synonyms: AU079016; AW045591; Tpt1; Tpt1h
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202140 representing NM_153597
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGAGCTGATGGCTTTGTGCCCTGCAAGCCCTCCTGCAGCTGCCCCAGTTCCACAGCTTTCCATTG
 AAGATGTGCAGCTCGTGGTCAATACCAACGAAAAGCAGCGGTTTACCCTGCAGCCAGGCGAGCCGAGCAC
 TGGGCTCCTCATCAGGGCAATCAGGGCCACTCCCTACAAGTCCCTGAGTTGGAAGTACGCCCCCTGGAG
 ACACCACAAGCCCTGCCCTTACTACTAGTCCATGGTACATTCTGGAAGCACTGGCCATCTATTCTACTAA
 AGGGCTTGTACGCCAAGGAAGGACACATCCACTTGGCCTCAGGATTGCCTGGGGACCCTGGTGTGCAT
 CAGCGGCATTCGTCCAAATTGTGAGGTGGCGGTTCATCGATGGACCCCTAGCCCTCACAGATGGAATC
 CCTTTCTTCTGCTCCGCAATGGTGTGATTCTGACTCCAGGGAATGCTGAAGGCTTCTGCTTCCCAAGT
 ACTTCAAGGAGGCCCTGCAGCTTCGACCTACACGAAAGCCTCTCTCTTGGCTGGTGATAAAGAGACAGA
 GACTCAGAGTGGCCCCAAGCTCAGTTCAGAGGAGGAAGAAGAAAGATCCAACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202140 representing NM_153597
 Red=Cloning site Green=Tags(s)

MRADGFVPLQALLQLPQFHSFSIEDVQLVVNTNEKQRFLLQPGEPSTGLLIRANQGHSLQVPELELTPL
 TPQALPLTLVHGTFWKHWPSSILLKGLSRQGRTHIHLASGLPGDPGVI SGIRPNCEVAVFIDGPLALTDGI
 PFFCSANGVILTPGNAEGFLLPKYFKEALQLRPTRKPLSLAGDKETETQSGPKLSSRGRRKIQQ

TRTRPLE - GFP Tag - V

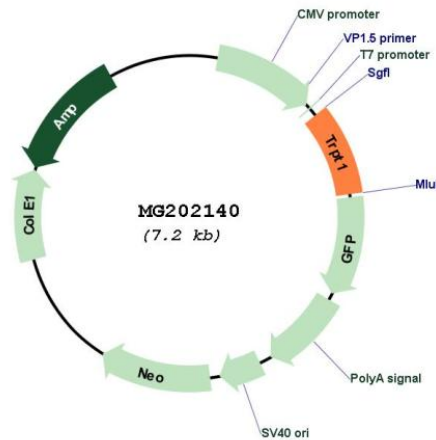
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_153597

ORF Size: 615 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: [NM_153597.1](#), [NP_705825.1](#)

RefSeq Size: 966 bp

RefSeq ORF: 750 bp

Locus ID: 107328

UniProt ID: [Q8K3A2](#)

Cytogenetics: 19 A

Gene Summary: Catalyzes the last step of tRNA splicing, the transfer of the splice junction 2'-phosphate from ligated tRNA to NAD to produce ADP-ribose 1''-2'' cyclic phosphate.[UniProtKB/Swiss-Prot Function]