

Product datasheet for **MG227475**

Tshr (NM_001113404) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tshr (NM_001113404) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tshr
Synonyms: A1481368; hypothroid; hyt; pet
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227475 representing NM_001113404
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCCAGGGTCCCTGCTGCTGCTTGTCTGCTGCTCGCCCTGTCCAGGAGCCTGCGGGCAAAGAGT
GTGCGTCTCCACCCTGTGAGTGTCCACCAGGAGGACGACTTCAGAGTCACCTGCAAGGAGCTCCACCGAAT
CCCCAGCCTGCCGCCAGCACCCAGACTCTGAAGCTCATCGAGACTCATCTGAAGACCATACCCAGTCTT
GCATTTTCGAGTCTGCCAATATTTCCAGGATCTATTTATCTATAGATGCAACTCTGCAGCGGCTGGAAC
CACATTCTTTCTACAATTTGAGTAAAATGACTCACATAGAAATCCGGAACACCAGAAGCTTAACCTATAT
AGACCCTGATGCCTTGACAGAGCTCCCCTTGCTCAAGTTTCTTGGCATTTCATTAATACTGGACTTAGAATA
TTCCCTGACTTGACAAAATTTATCCACGGACATATTCTTTATACTTGAATCACAGACAACCCCTTACA
TGACTTCGGTCCCTGAAAACGCATTCCAGGGCCTATGCAATGAAACCTTGACCCTGAAACTGTACAACA
TGGATTTACTTCAGTCCAAGGACATGCTTTCAATGGAACAAAGCTGGATGCTGTTTACCTAAACAAGAA
AAATACCTGACAGCTATAGACAACGATGCCTTTGGAGGAGTATACAGTGGACCACTTTGCTGTCATTT
TCAAAGAAGAATTTGATTTCCACCAGGCACAAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227475 representing NM_001113404
 Red=Cloning site Green=Tags(s)

MRPGSLLLLVLALLSRSLRGKECASPPCEHQEDDFRVTCKELHRIPSLPSTQTLKLIETHLKTIPSL
 AFSSLPNISRIYLSIDATLQRLEPHSFYNLSKMTHIEIRNTRSLTYIDPDALTEPLLLKFLGIFNTGLRI
 FPDLTKIYSTDIFFILEITDNPYMTSVPENAFQGLCNETLTLKLYNNGFTSVQGHAFNGTKLDAVYLNKN
 KYLTAIDNDAFGGVYSGPTLLSFLKEEFDHQAQI

TRTRPLE - GFP Tag - V

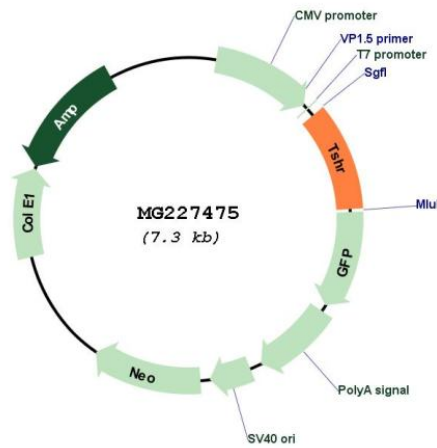
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001113404

ORF Size: 735 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_001113404.1 , NP_001106875.1
RefSeq Size:	1346 bp
RefSeq ORF:	738 bp
Locus ID:	22095
Cytogenetics:	12 44.51 cM
Gene Summary:	Receptor for the thyroid-stimulating hormone (TSH) or thyrotropin. Also acts as a receptor for the heterodimeric glycoprotein hormone (GPHA2:GPHB5) or thyrostimulin. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. Plays a central role in controlling thyroid cell metabolism.[UniProtKB/Swiss-Prot Function]