

Product datasheet for **MR227475**

Tshr (NM_001113404) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tshr (NM_001113404) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tshr
Synonyms: A1481368; hypothroid; hyt; pet
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR227475 representing NM_001113404
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCCAGGGTCCCTGCTGCTGCTTGTCTGCTGCTCGCCCTGTCCAGGAGCCTGCGGGGCAAAGAGT
GTGCGTCTCCACCCTGTGAGTGTACCAGGAGGACGACTTCAGAGTCACCTGCAAGGAGCTCCACCGAAT
CCCCAGCCTGCCGCCAGCACCCAGACTCTGAAGCTCATCGAGACTCATCTGAAGACCATACCCAGTCTT
GCATTTTCGAGTCTGCCAATATTTCCAGGATCTATTTATCTATAGATGCAACTCTGCAGCGGCTGGAAC
CACATTCTTTCTACAATTTGAGTAAAATGACTCACATAGAAATCCGGAACACCAGAAGCTTAACCTATAT
AGACCCTGATGCCTTGACAGAGCTCCCCTTGCTCAAGTTTCTTGGCATTTCATTAATACTGGACTTAGAATA
TTCCCTGACTTGACAAAATTTATCCACGGACATATTCTTTATACTTGAAATCACAGACAACCCCTTACA
TGACTTCGGTCCCTGAAAACGCATTCCAGGGCCTATGCAATGAAACCTTGACCCTGAAACTGTACAACAA
TGGATTTACTTCAGTCCAAGGACATGCTTTCAATGGAACAAAGCTGGATGCTGTTTACCTAAACAAGAAAT
AAATACCTGACAGCTATAGACAACGATGCCTTTGGAGGAGTATACAGTGGACCACTTTGCTGTCAATTC
TCAAAGAAGAATTTGATTTCCACCAGGCACAAATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227475 representing NM_001113404
 Red=Cloning site Green=Tags(s)

MRPGSLLLLVLALLSRSLRGKECASPPCEHQEDDFRVTCHELHRIPSLPSTQTLKLIETHLKTIPSL
 AFSSLPNISRIYLSIDATLQRLEPHSFYNLSKMTHEIRNTRSLTYIDPDALTEPLLLKFLGIFNTGLRI
 FPDLTKIYSTDIFFILEITDNPYMTSVPENAFQGLCNETLTLKLYNNGFTSVQGHAFNGTKLDAVYLNKN
 KYLTAIDNDAFGGVYSGPTLLSFLKEEFDHQAQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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

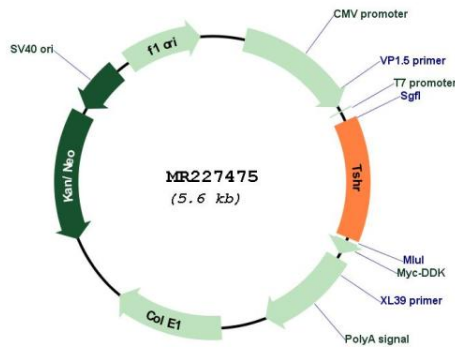
Locus ID: 22095

Cytogenetics: 12 44.51 cM

MW: 28.1 kDa

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]

Product images:



Circular map for MR227475