

Product datasheet for **SC325694**

TSH Receptor (TSHR) (NM_001142626) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSH Receptor (TSHR) (NM_001142626) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSH Receptor
Synonyms:	CHNG1; hTSHR-I; LGR3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001142626 edited ATGAGGCCGGCGGACTTGCTGCAGCTGGTGCTGCTGCTCGACCTGCCAGGGACCTGGGC GGAATGGGGTGTTCGTCTCCACCCTGCGAGTGCCATCAGGAGGAGGACTTCAGAGTCACC TGCAAGGATATTCAACGCATCCCCAGCTTACCGCCCAGTACGCAGACTCTGAAGCTTATT GAGACTCACCTGAGAATATTCCAAGTCATGCATTTTCTAATCTGCCAATATTTCCAGA ATCTACGTATCTATAGATGTGACTCTGCAGCAGCTGGAATCACACTCCTTCTACAATTTG AGTAAAGTGACTCACATAGAAATTCGGAATACCAGGAACCTAACTTACATAGACCCTGAT GCCCTCAAAGAGCTCCCCCTCTAAAGTTCCTGGCATTTCACACTGGACTTAAATG TTCCCTGACCTGACCAAAGTTTATTCCACTGATATATTCTTTATACTTCAAATTACAGAC AACCCCTACATGACGTCAATCCCTGTGAATGCTTTTCAGGGACTATGCAATGAAACCTTG ACACTGAAGCTGTACAACAATGGCTTTACTTCAGTCCAAGGATATGCTTTCAATGGGACA AAGCTGGATGCTGTTTACCTAAACAAGAATAAATACCTGACAGTTATTGACAAAGATGCA TTTGGAGGAGTATACAGTGGACCAAGCTTGTGTTAGAAAATGTTGCTGTCTCGGGTAAA GGCTTCTGCAAGTCCCTCTTTTCTGGCTGTATAGGCTACCTCTTGAAGAAAGTCCCTTG TCCTTTGAGACTCAGAAGGCCCCACGCTCCAGTATGCCATCATGA
Restriction Sites:	Please inquire
ACCN:	NM_001142626
Insert Size:	1200 bp



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OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001142626.1 , NP_001136098.1
RefSeq Size:	1246 bp
RefSeq ORF:	825 bp
Locus ID:	7253
UniProt ID:	P16473
Cytogenetics:	14q31.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Autoimmune thyroid disease, Neuroactive ligand-receptor interaction

Gene Summary:

The protein encoded by this gene is a membrane protein and a major controller of thyroid cell metabolism. The encoded protein is a receptor for thyrothropin and thyrostimulin, and its activity is mediated by adenylate cyclase. Defects in this gene are a cause of several types of hyperthyroidism. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]

Transcript Variant: This variant (3) differs in the 3' UTR and coding sequence and uses an alternate in-frame splice junction compared to variant 1. The resulting isoform (3) has a shorter and distinct C-terminus and contains an alternate internal segment compared to isoform 1.