

Product datasheet for SC119844

Thyroid Hormone Receptor beta (THRB) (NM_000461) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thyroid Hormone Receptor beta (THRB) (NM_000461) Human Untagged Clone
Tag:	Tag Free
Symbol:	Thyroid Hormone Receptor beta
Synonyms:	C-ERBA-2; C-ERBA-BETA; ERBA2; GRTH; NR1A2; PRTN; THR1; THRB1; THRB2; TRbeta
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000461 edited
 ATGACTCCCAACAGTATGACAGAAAATGGCCTTACAGCCTGGGACAAACCGAAGCACTGT
 CCAGACCGAGAACACGACTGGAAGCTAGTAGGAATGTCTGAAGCCTGCCTACATAGGAAG
 AGCCATTCAGAGAGGCGCAGCACGTTGAAAAATGAACAGTCGTCGCCACATCTCATCCAG
 ACCACTTGGACTAGCTCAATATTCCATCTGGACCATGATGATGTGAACGACCAGAGTGTC
 TCAAGTGCCAGACCTTCCAAACGGAGGAGAAGAAATGTAAAGGGTACATCCCCAGTTAC
 TTAGACAAGGACGAGCTCTGTGTAGTGTGGTGACAAAGCCACCGGGTATCACTACCGC
 TGTATCACGTGTGAAGGCTGCAAGGTTTCTTTAGAAGAACCATTAGAAAAATCTCCAT
 CCATCCTATTCTGTAATATGAAGGAAAATGTGTCATAGACAAAGTCACGCGAAATCAG
 TGCCAGGAATGTCGCTTAAAGAAATGCATCTATGTTGGCATGGCAACAGATTTGGTGCTG
 GATGACAGCAAGAGGCTGGCCAAGAGGAAGCTGATAGAGGAGAACCAGGAGAAAAAGACGG
 CGGGAAGAGCTGCAGAAGTCCATCGGGCACAAGCCAGAGCCACAGACGAGGAATGGGAG
 CTCATCAAAACTGTCACCGAAGCCCATGTGGCGACCAACGCCAAGGCAGCCACTGGAAG
 CAAAAACGGAAATTCCTGCCAGAAGACATTGGACAAGCACAATAGTCAATGCCCCAGAA
 GGTGGAAGGTTGACTTGAAGCCTTCAGCCATTTTACAAAAATCATCACACCAGCAATT
 ACCAGAGTGGTGGATTTTGCAAAAAGTTGCCTATGTTTTGTGAGCTGCCATGTGAAGAC
 CAGATCATCCTCCTCAAAGGCTGCTGCATGGAGATCATGTCCCTTCGCGCTGCTGTGCGC
 TATGACCCAGAAAGTGAGACTTTAACCTTGAATGGGAAAATGGCAGTGACACGGGGCCAG
 CTGAAAAATGGGGTCTTGGGGTGGTGTGACAGCCATCTTTGACCTGGGCATGTCTCTG
 TCTTCTTTCAACCTGGATGACACTGAAGTAGCCCTCCTTACGGCCGCTCCTGCTGATGCT
 TCAGATCGCCCGGGCTTGCCTGTGTTGAGAGAATAGAAAAGTACCAAGATAGTTTCTG
 CTGGCCTTTGAACACTATATCAATTACCGAAAACACCACGTGACACACTTTTGGCCAAAA
 CTCCTGATGAAGGTGACAGATCTGCGGATGATAGGAGCCTGCCATGCCAGCCGCTTCTG
 CACATGAAGGTGGAATGCCCCACAGAACTTCCCCCTTTGTTCTTGAAGTGTTCGAG
 GATTAG



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000461 unedited TAGATTTTGTAAATACGACTTACTATAGGGCGGCCGCAATTCGGCACAAACGCGGCGGG GATTAACCTTTCATGAATAATATCTGCGATTTCTTCTGGTTGGCTGTCCTGCGTGGGTG CCAAGTTCACACATGATTTAATGAATAAGAAGGAGATGTCAGTGAAAAAAGGGATCCAG AATGATTACTAACCTATGACTCCCAACAGTATGACAGAAAATGGCCTTACAGCCTGGGAC AAACCGAAGCACTGTCCAGACCGAGAACACGACTGGAAGCTAGTAGGAATGTCTGAAGCC TGCCTACATAGGAAGAGCCATTCAGAGAGGCGCAGCACGTTGAAAAATGAACAGTCGTCG CCACATCTCATCCAGACCACTTGGACTAGCTCAATATTCCATCTGGACCATGATGATGTG AACGACCAGAGTGTCTCAAGTGCCAGACCTTCCAAACGGAGGAGAAGAAATGTAAGGG TACATCCCAGTTACTTAGACAAGGACGAGCTCTGTGTAGTGTGTGGTGACAAAGCCACC GGGTATCACTACCGCTGTATCACGTGTGAAGGCTGCAAGGGTTTCTTTAGAAGAACCATT CAGAAAAATCTCCATCCATCCTATTCTGTAAATATGAAGGAAAAATGTGCATAGACAAA GTCACGCGAAATCAGTGCCAGGAATGTCGCTTTAAGAAATGCATCTATGTTGGCATGGCA ACAGATTTGGTGTGGATGACAGCAAGAGGCTGGCCAAGAAGAAGCTGATAGANGAGAAA CCGGAGAAAAGACGGCGGAAGAGCTGCAGAAGTCCATTCGGCACAAGCCAGAGCCACA GACGAGGAATGGGAGCTCATCAAACTGTACCGAAAGCCATGTGGGCGACCACGCCCAA GGCAGNCACTGGAAAGCAAACGNAATTNCTGCAGAGAATTGNACAGCACCATAGTCATG CCCAAAGGTGGAAGGTGACTTGAAGCTCAGNCATTTTC
Restriction Sites:	NotI-NotI
ACCN:	NM_000461
Insert Size:	4000 bp
OTI Disclaimer:	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.
	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
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_000461.2 , NP_000452.2

RefSeq Size:	1814 bp
RefSeq ORF:	1386 bp
Locus ID:	7068
UniProt ID:	P10828
Cytogenetics:	3p24.2
Domains:	HOLI, zf-C4
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>The protein encoded by this gene is a nuclear hormone receptor for triiodothyronine. It is one of the several receptors for thyroid hormone, and has been shown to mediate the biological activities of thyroid hormone. Knockout studies in mice suggest that the different receptors, while having certain extent of redundancy, may mediate different functions of thyroid hormone. Mutations in this gene are known to be a cause of generalized thyroid hormone resistance (GTHR), a syndrome characterized by goiter and high levels of circulating thyroid hormone (T3-T4), with normal or slightly elevated thyroid stimulating hormone (TSH). Several alternatively spliced transcript variants encoding the same protein have been observed for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript and encodes the longer isoform (a). Variants 1-10 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>