

Product datasheet for **MG225395**

Thrb (NM_009380) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thrb (NM_009380) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thrb
Synonyms:	c-erbAbeta; Nr1a2; T3Rbeta; T3R[b]; Thrb1; Thrb2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225395 representing NM_009380
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACTACTGTATGCCAGAGGTACACGAAGTGTGCCAGCTGCCAGCAGCAACTGCTACATGCAGGTCA
 CTGACTACCTCGCATATCTGGAAGACAGTCCGGCTCTCAGTGGTCGTGATGTCCAAGCTGTGCCAGTAG
 CAGCATATATATGGAACAGGCCTGGGCAGTGAATCAGCCTTATACCTGTAGTTACCCTGGAAACCTGTTT
 AAAAGCAAGGACTCTGACTTGGACATGGCCCTCAGTCAGTCCAGCCAGCCTGCACATCTCCCTGAAGAAA
 AGCCTTTTCTCAAGTGCAGTCGCCACCGCACTCACAAAAAAGGGTATATCCCAGCTATTTAGACAA
 AGATGAGCTCTGTGTAGTGTGTGGGGACAAAGCCACAGGGTACCACTATCGCTGCATCACCTGTGAAGGC
 TGCAAGGGCTTCTTTAGAAGAACCATTAGAAAAGTCTCCATCCATCTTATTCTGTAAATATGAAGGAA
 AGTGCATCATAGACAAAGTCACCCGAACCAAGTCCAGGAATGTCGCTTTAAGAAATGCATCTATGTTGG
 CATGGCAACAGACTTGGTGTGGATGACAGCAAGAGGCTAGCCAAGCGGAAGCTTATAGAGGAGAACCCT
 GAGAAGAGGGCGGCCGGAAGAGCTACAGAAATCAATTGGGCACAAGCCAGAACCCACGGATGAGGAGTGGG
 AGCTCATCAAGACAGTCACTGAGGCCACGTGGCCACCAATGCCAGGGCAGCCACTGGAAGCAGAGCG
 GAAATTCCTGCCAGAAGACATTGGACAAGCACCCATCGTGAATGCCCCAGAAGGTGGCAAGGTTGACCTG
 GAAGCCTTCAGTCATTTTACAAAAATCATCACACCAGCAATTACCAGAGTGGTGGATTTTGCCAAAAAGT
 TGCCCATGTTTTGTGAGCTGCCATGTGAAGACCAGATCATCTCTCAAAGGCTGCTGCATGGAGATCAT
 GTCCTTCGAGCTGCTGTGCGCTATGACCCAGACAGCGAGACTCTAACTTGAATGGGAAAATGGCAGTG
 ACACGAGGCCAGCTGAAAAATGGGGCCCTGGGGTGGTTTCAGATGCCATCTTTGACCTGGGCATGTCTC
 TGTTCATTTTCAACCTGGATGACTGAAGTCGCCCTGCTTCAGGCCGCTCCTGCTAATGTCTTCAGATCG
 CCCAGGGCTAGCCTGTGTTGAGAGAATAGAGAAAATACCAAGACAGTTTCTGTTGGCCTTTGAACACTAT
 ATCAATTACCGGAAGCACCATGTGACACACTTTTGGCCAAACTCCTGATGAAGGTGACAGACCTGCGGA
 TGATTGGAGCTTGCCATGCCAGCCGCTTCTCCACATGAAGGTGGAGTGGCCACTGAGCTCTTCCCGCC
 TCTGTTCTTAGAAGTATTTGAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225395 representing NM_009380
 Red=Cloning site Green=Tags(s)

MNYCMPEVHEVCPAASSNCYMQVTDYLAILEDSPALSGRDVQAVPSSSIYMEQAWAVNQPYTCSYPGNLF
 KSKDSDLDMALSQSSQPAHLPEEKFPFQVQSPPHSQKKGYPYLDKDEL CVVCGDKATGYHYRCITCEG
 CKGFFRRTIQKSLHPSYSCKYEGKCIIDKVTRNQCECRFKKCIYVGMATDLVLDLDDSKRLAKRKLIEENR
 EKRRREELQKSIQKPEPTDEEWELIKTVTEAHVATNAQGSQHWKQKRKFLPEDIGQAPIVNAPEGGKVDL
 EAFSHFTKIITPAITRVVDFAKKLPMFCELPCEQIILLKGCMEIMSLRAAVRYDPDSETLTLNGEMAV
 TRGQLKNGGLGVVSDAIFDLGMSLSSFNLDDEVALLQAVLLMSSDRPGLACVERIEKYQDSFLLAFEHY
 INYRKHHVTHFWPKLLMKVTDLRMIGACHASRFLHMKVECPTELPPLFLEVFEV

TRTRPLE - GFP Tag - V

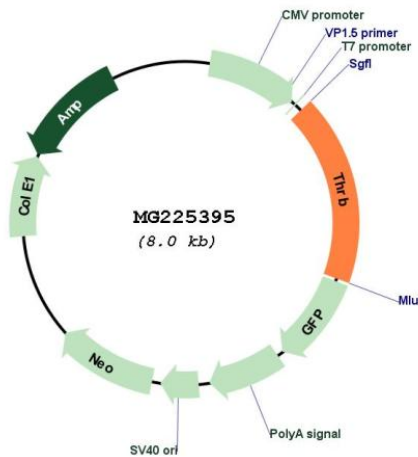
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_009380

ORF Size: 1425 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_009380.3](#), [NP_033406.1](#)

RefSeq Size: 6083 bp

RefSeq ORF: 1428 bp

Locus ID: 21834

UniProt ID: [P37242](#)

Cytogenetics: 14 A2

Gene Summary: Nuclear hormone receptor that can act as a repressor or activator of transcription. High affinity receptor for thyroid hormones, including triiodothyronine and thyroxine. [UniProtKB/Swiss-Prot Function]