

Product datasheet for **RN206330**

Th (NM_012740) Rat Untagged Clone

Product data:

| | |
|---------------------------|-----------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Th (NM_012740) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Th |
| Synonyms: | The |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >RN206330 representing NM_012740
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCACCCCCAGCGCCCCCTCGCCACAGCCCAAGGGCTTCAGAAGGGCCGTCTCAGAGCAGGATGCCA
AGCAGGCCGAGGCTGTACGTCCCCAAGGTTTCATCGGACGGCGACAGAGTCTCATCGAGGATGCCCGCAA
GGAGCGGAGGCGCGGCAGCTGCAGCAGCAGCAGCGGTAGCCTCCTCGGAACCTGGGAACCCACTGGAG
GCTGTGGTATTTGAGGAGAGGGATGGGAATGCTGTTCTCAACCTGCTCTTCTCCCTGAGGGGTACAAAA
CCTCCTCCTTGTCTCGGGCTGTAAAAGTATTTGAGACATTTGAAGCCAAAATTCACCACTTAGAGACCCG
GCCTGCCAGAGGCCACTGGCAGGAAGCCCCACCTGGAGTATTTGTGCGCTTCGAGGTGCCAGTGGAA
GACCTGGTGCCTCCTCAGCTCTGTGCGTCGGGTGTCTGACGACGTGCCAGTGCAGAGAGGACAAGG
TCCCTGGTCCCAAGAAAAGTGTGGAATTGGACAAGTGTACCACCTGGTACCAAGTTTGACCTGA
TCTGGACCTGGACCACCCGGGCTTCTGACCAGGTGTATCGCCAGCGTCGGAAGCTGATTGCAGAGATT
GCCTTCCAGTACAAGCACGGTGAACCAATTCGCCATGTGGAATACACAGCGGAAGAGATTGCTACCTGGA
AGGAGGTATATGTCACGCTGAAGGGCTCTATGCTACCCATGCCTGCCGGGAGCCTGGAGGGTTTCCA
GCTTCTGGAACGGTACTGTGGCTACCGAGAGGACAGCATCCCACAGCTGGAGGACGTGTCCCGCTTCTTG
AAGGAGCGGACTGGCTTCCAGCTGCGACCCGTGGCCGGTCTACTGTCCGCCCGTGAATTTCTGGCCAGTC
TGGCCTTCCGCGTGTTCATGCACCCAGTATATCCGCCATGCCTCCTCACCTATGCATTACCTGAGCC
GGACTGCTGCCATGAGCTGTTGGGACATGTACCCATGTTGGCTGACCGCACATTTGCCAGTTCTCCCAG
GACATTGGACTTGCACTCTGCGGGCCTCAGATGAAGAAATTGAAAACTCTCCACGGTGTACTGGTTCA
CTGTGGAATTCGGGCTATGTAAACAGAATGGGGAGCTGAAGCTTATGGTGCAGGGCTGCTGCTTCCTA
CGGAGAGCTCCTGCACTCCCTGTGACAGGAGCCTGAGGTCCGAGCCTTTGACCCAGACACAGCAGCTGTG
CAGCCCTACCAAGATCAAACCTACCAGCCTGTGTACTTTGTGTCGAGAGCTTCAATGACGCCAAGGACA
AGCTCAGGAATAATGCCTCTCGTATCCAGCGCCATTCTCTGTGAAGTTTGACCCGTACACACTGGCCAT
TGACGTAAGTGGACAGCCCTCACACCATCCAGCGCTCCTTGGAGGGGTCCAGGATGAGCTGCACACCCTG
GCCACGCACTGAGTGCCATTAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1912_e03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_012740

Insert Size: 1497 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:

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_012740.3](#), [NP_036872.1](#)

RefSeq Size: 1770 bp

RefSeq ORF: 1497 bp

Locus ID: 25085

UniProt ID: [P04177](#)

Cytogenetics: 1q41

Gene Summary: catalyzes the rate limiting step in catecholamine biosynthesis; may be involved in response to hypoxia [RGD, Feb 2006]