

Product datasheet for **MR227681**

Th (NM_009377) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Th (NM_009377) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Th
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227681 representing NM_009377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACCCCCAGCGCCTCTCGCCACAGCCCAAGGGCTTCAGAAGAGCCGTCTCAGAGCAGGATACCA
 AGCAGGCCGAGGCTGTACGTCCCCAAGGTTTCATTGGACGGCGCAGAGTCTCATCGAGGATGCCCGCAA
 GGAGCGGGAGGCAGCAGCAGCTGCAGCAGCGGCTGCGGTAGCCTCCGCGGAACCTGGGAACCCATTGGAG
 GCTGTGGTATTCGAGGAGAGGGATGAAATGCTGTTCTCAACCTGCTCTTCTCCTTGAGGGGTACAAAAC
 CCTCTCACTGTCTCGGGCTTTGAAAGTGTGGAGACATTTGAAGCCAAAATCCACCACTTAGAGACCCG
 GCCTGCCAGAGGCCACTGGCAGGAAGCCCCACCTGGAGTACTTTGTGCGCTTCGAGGTGCCAGTGGC
 GACCTGGTGCCTCCTCAGTTCTGTGCGTCGGGTGTCTGACGATGTGCGCAGTGCCAGAGAGGACAAGG
 TTCCCTGGTCCCAAGGAAAGTGTGAGATTGGATAAGTGTACCACCTGGTACCAAGTTTGACCTGA
 CCTGGACCTGGACATCCGGGCTTCTGACCAGGCGTATCGCCAGCGCCGGAAGCTGATTGCAGAGATT
 GCCTTCCAATACAAGCAGGGTGAGCCAATTCGCCACGTGGAATACACAAAGGAGGAAATGCTACCTGGA
 AGGAGGTATACGCCACGCTGAAGGGCCTCTATGCTACCCATGCCTGCCGGGAACACCTGGAGGCTTTCCA
 GCTTCTGGAACGGTACTGTGGCTACCGAGAGGACAGCATTCCACAGCTGGAGGATGTGTCTCACTTCTTG
 AAGGAACGGACTGGCTTCCAGCTGCGACCCGTGGCCGGTCTACTGTCTGCCCGTATTTTCTGGCCAGTC
 TGGCCTCCGTGTGTTTCAGTGCACACAGTACATCCGTATGCCTCCTCACCTATGCACTCACCCGAGCC
 AGACTGCTGCCACGAGCTGCTGGGACACGTACCATGTTGGCTGACCGCACATTTGCCAGTTCTCCAG
 GACATTGGACTTGCATCTCTGGGGCTTCAGATGAAGAAATGAAAACTCTCCACGGTGTACTGGTTCA
 CTGTGGAGTTTGGGCTGTGTAACAGAATGGGGAGCTGAAGCTTACGGTGCAGGGTGTCTCTCCTA
 TGGAGAGCTCCTGCACTCCCTGTGACAGGAGCCCGAGGTCGGGGCTTTGACCCAGACACAGCAGCCGTG
 CAGCCCTACCAAGATCAAACCTACCAGCGGTGTACTTCGTGTCAGAGAGCTTCAGTGATGCCAAGGACA
 AGCTCAGAACTATGCCTCTCGTATCCAGCGCCATTCTCTGTGAAGTTTGACCCGTACACCCTGGCCAT
 TGATGTACTGGACAGTCTCACACCATCCGGCGCTCCTTAGAGGGGTCCAGGATGAGCTGCACACCCTG
 ACCAAGCACTGAGTGCCATTAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227681 representing NM_009377
 Red=Cloning site Green=Tags(s)

MPTPSASSPQPKGFRRVSEQDTKQAEAVTSPRFIGRRQSLIEDARKEREAAAAAAAAAVASAEPGNPLE
 AVVFEERDGNVNLNLLFSLRGTKPSSLSRALKVFETFEAKIHHLETRPAQRPLAGSPHLEYFVRFVPSG
 DLAALLSSVRRVSDVRSAREDKVPWFPRKVSSELDKCHHLVTKFDPDLDDHPGFSDQAYRQRRLIAEI
 AFQYKQGEPIPHVEYTKEEIATWKEVYATLKGLYATHACREHLEAFQLLERYCGYREDSIPQLEDVSHFL
 KERTGFQLRPVAGLLSARDFLASLAFRVFQCTQYIRHASSPMHSPEPDCELLGHVPMLADRTFAQFSQ
 DIGLASLGASDEEIEKLSTVYWFVTEFGLCKQNGELKAYGAGLLSSYGELLHSLSEEPEVRAFDPDTAAV
 QPYQDQTYQPVYVSESFSDAKDKLRNYASRIQRPFSVKFDPYTLAIDVLDSPHTIRRSLEGVQDELHTL
 TQALSAIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_009377

ORF Size: 1494 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](#)

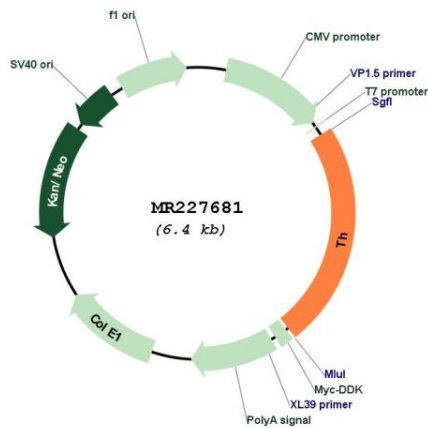
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_009377.2</u>
RefSeq Size:	1757 bp
RefSeq ORF:	1497 bp
Locus ID:	21823
UniProt ID:	<u>P24529</u>
Cytogenetics:	7 88.06 cM
MW:	56.4 kDa
Gene Summary:	Plays an important role in the physiology of adrenergic neurons.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227681