

Product datasheet for **MG227681**

Th (NM_009377) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Th (NM_009377) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Th |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG227681 representing NM_009377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACCCCCAGCGCCTCTCGCCACAGCCCAAGGGCTTCAGAAGAGCCGTCTCAGAGCAGGATACCA
 AGCAGGCCGAGGCTGTACGTCCCCAAGTTTCATTGGACGGCGGAGAGTCTCATCGAGGATGCCCGCAA
 GGAGCGGAGGCAGCAGCAGCTGCAGCAGCGGCTGCGGTAGCCTCCGCGGAACCTGGGAACCCATTGGAG
 GCTGTGGTATTCGAGGAGAGGGATGAAATGCTGTTCTCAACCTGCTCTTCTCCTTGAGGGGTACAAAAC
 CCTCTCACTGTCTCGGGCTTTGAAAGTGTGGAGACATTTGAAGCCAAAATCCACCACTTAGAGACCCG
 GCCTGCCAGAGGCCACTGGCAGGAAGCCCCACCTGGAGTACTTTGTGCGCTTCGAGGTGCCAGTGGC
 GACCTGGTGCCTCCTCAGTTCTGTGCGTCGGGTGTCTGACGATGTGCGCAGTGCCAGAGAGGACAAGG
 TTCCCTGGTTCCAAGGAAAGTGTGAGATTGGATAAGTGTACCACCTGGTACCAAGTTTGACCTGA
 CCTGGACCTGGACCATCCGGCTTCTCTGACCAGGCGTATCGCCAGCGCCGGAAGCTGATTGCAGAGATT
 GCCTTCCAATACAAGCAGGGTGAGCCAATTCGCCACGTGGAATACACAAAGGAGGAAATGCTACCTGGA
 AGGAGGTATACGCCACGCTGAAGGGCTCTATGCTACCCATGCCTGCCGGGAACACCTGGAGGCTTTCCA
 GCTTCTGGAACGGTACTGTGGCTACCGAGAGGACAGCATTCCACAGCTGGAGGATGTGTCTCACTTCTTG
 AAGGAACGGACTGGCTTCCAGCTGCGACCCGTGGCCGGTCTACTGTCTGCCCGTATTTTCTGGCCAGTC
 TGGCCTCCGTGTGTTTTCAGTGCACACAGTACATCCGTCATGCCTCCTCACCTATGCACTCACCCGAGCC
 AGACTGCTGCCACGAGCTGCTGGGACACGTACCATGTTGGCTGACCGCACATTTGCCAGTTCTCCAG
 GACATTGGACTTGCACTCTCTGGGGCTTCAGATGAAGAAATGAAAACTCTCCACGGTGTACTGGTTCA
 CTGTGGAGTTTGGGCTGTGTAACAGAATGGGGAGCTGAAGGCTTACGGTGCAGGGCTGCTGTCTTCTTA
 TGGAGAGCTCCTGCACTCCCTGTGACAGGAGCCCGAGGTCGGGGCTTTGACCCAGACACAGCAGCCGTG
 CAGCCCTACCAAGATCAAACCTACCAGCCGGTGTACTTCGTGTCAGAGAGCTTCAGTGATGCCAAGGACA
 AGCTCAGAACTATGCCTCTCGTATCCAGCGCCATTCTCTGTGAAGTTTGACCCGTACACCCTGGCCAT
 TGATGTACTGGACAGTCTCACACCATCCGGCGCTCCTTAGAGGGGTCCAGGATGAGCTGCACACCCTG
 ACCAAGCACTGAGTGCCATTAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227681 representing NM_009377
 Red=Cloning site Green=Tags(s)

MPTPSASSPQPKGFRRVSEQDTKQAEAVTSPRFIGRRQSLIEDARKEREAAAAAAAAAVASAEPGNPLE
 AVVFEERDGNVNLNLLFSLRGTKPSSLSRALKVFETFEAKIHHLETRPAQRPLAGSPHLEYFVRFVPSG
 DLAALLSSVRRVSDVRSAREDKVPWFPRKVSSELDKCHHLVTKFDPDLDDHPGFSQAYRQRRLIAEI
 AFQYKQGEPIPHVEYTKEEIATWKEVYATLKGLYATHACREHLEAFQLLERYCGYREDSIPQLEDVSHFL
 KERTGFQLRPVAGLLSARDFLASLAFRVFQCTQYIRHASSPMHSPEPDCHELLGHVPMLADRTFAQFSQ
 DIGLASLGASDEEIEKLSTVYWFVTEFGLCKQNGELKAYGALLSSYGELLHSLSEEPEVRAFDPDTAAV
 QPYQDQTYQPVYFVSESFSDAKDKLRNYASRIQRPFSVKFDPYTLAIDVLDSPHTIRRSLEGVQDELHTL
 TQALSAIS

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1184_g02.zip

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.

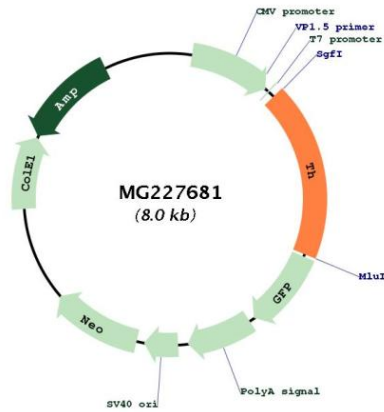
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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: [NM_009377.2](#)

RefSeq Size: 1757 bp
 RefSeq ORF: 1497 bp
 Locus ID: 21823
 UniProt ID: [P24529](#)
 Cytogenetics: 7 88.06 cM
 Gene Summary: Plays an important role in the physiology of adrenergic neurons.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227681