

## Product datasheet for **SC304207**

### MYT1L (NM\_015025) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MYT1L (NM_015025) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYT1L
Synonyms:	MRD39; myT1-L; NZF1; ZC2H2C2; ZC2HC4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304207 representing NM_015025. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**  
ATGGAGGTGGACACCGAGGAGAAGCGGCATCGCACGCGGTCCAAAGGGGTTTCGAGTTCCTGGAACCA  
GCCATACAAGAGCTGTTAGCTGTCCACCCCTGGCTGTGACGGCAGTGGTCATGTCAGTGGCAATAT  
GCAAGACACAGAAGTGTATATGGTTGTCCCTTGCGCAAAAAAGAAAAACACAAGATAAACAGCCCCAG  
GAACCTGCTCTAAACGAAAGCCATTTGCCGTGAAAGCAGACAGCTCCTCAGTGGATGAGTGTGACGAC  
AGTGATGGGACTGAGGACATGGATGAGAAGGAGGAGTGAAGGGGAGGAGTACTCCGAGGACAATGAT  
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GATGAGGACGATGACGAGGATGGAGAAGATGTGGAGGATGAAGAAGAGGAAGAGGAGGAGGAGGAG  
GAGGAAGAGGAAGAAGAAACGAAGACCATCAAATGAATTGTCACAATACTCGAATAATGAAGACACA  
GAAAAGGATGATAACAATAATGACGAATATGACAATTACGATGAAGTGGTGGCCAAGTCATTGTTAAAC  
CTCGGCAAAATCGCTGAGGATGCAGCCTACCGGCCAGGACTGAGTCAGAAATGAACAGCAATACCTCC  
AATAGTCTGGAAGACGATAGTGACAAAACGAAACCTGGGTGGGAAAGTGAGTTGAGTTAGACTTA  
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TCAGAAAACATGAATGACAGAAATTATGCAGACAGCATGTCGACGAAGACAGTAGAAATATGAATTAC  
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CCGCAGGAGAGGAATCCGCAGCAGAACATGAACATCCGTCAGCATGTCCGGCCAGAAGAGGACTTCCCC  
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AATATGAGGTGATATGAGGACAGTCTCCGAGACAACCTCCCGGGAGGACAGAAAGCCTAAATCCAGT  
GACAGCCATGTCAAAAAGCCATACTATGATCCCTCAAGAACAGAAAAGAGAGCAAGTGTCACCAACC



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CCCGGGTGTGATGGAACCGGCCACGTAACCTGGGCTGTACCCACATCACCGCAGCCTGTCCGGATGCCCG
CACAAAGATAGGGTCCCTCCAGAAATCCTTGCCATGCATGAAAGTGTCTCAAGTGCCCCACTCCGGGC
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TACGCGTCCCATCGCAGCGCCTCCGGGTGCCCTTGGCGGCCAAGAGGCAGAAAGACGGGTACCTGAAT
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TCAGGCCACGTACGCGGCAGCTTCTCACACACCGCAGCTTGTGAGGATGCCCGAGAGCCACGTACGCG
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AACAAAGTGATTGAGCAGCAGAACGAGTCTCTCTCCACGAGCTGGCGAACCTGAGCCAGTCTCTGATC
CACAGCTGGCTAACATCCAGCTGCCGCACATGGATCCAATCAATGAACAAAATTTTGATGCTTACGTG
ACTACTTTGACGAAATGTATACAAATCAAGATCGTTATCAGAGTCCAGAAAATAAAGCCCTACTGGAA
AATATAAAGCAGGCTGTGAGAGGAATTCAGGTCGA
ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAG
GATGACGACGATAAGGTTTAAACGGCCGCGCGCGGT

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**Restriction Sites:**

SgfI-NotI

**ACCN:**

NM\_015025

**Insert Size:**

3555 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](mailto: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](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_015025.3</a>
<b>RefSeq Size:</b>	7192 bp
<b>RefSeq ORF:</b>	3555 bp
<b>Locus ID:</b>	23040
<b>UniProt ID:</b>	<a href="#">Q9UL68</a>
<b>Cytogenetics:</b>	2p25.3
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	132.9 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the zinc finger superfamily of transcription factors whose expression, thus far, has been found only in neuronal tissues. The encoded protein belongs to a novel class of cystein-cystein-histidine-cystein zinc finger proteins that function in the developing mammalian central nervous system. Forced expression of this gene in combination with the basic helix-loop-helix transcription factor NeuroD1 and the transcription factors POU class 3 homeobox 2 and achaete-scute family basic helix-loop-helix transcription factor 1 can convert fetal and postnatal human fibroblasts into induced neuronal cells, which are able to generate action potentials. Mutations in this gene have been associated with an autosomal dominant form of cognitive disability and with autism spectrum disorder. Alternative splicing results in multiple variants. [provided by RefSeq, Jul 2017]</p>