

## Product datasheet for RC224321

### MYT1 (NM\_004535) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MYT1 (NM_004535) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYT1
Synonyms:	C20orf36; MTF1; MYTI; NZF2; PLPB1; ZC2H2C1; ZC2HC4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224321 ORF sequence, <b>codon optimized</b> . Due to the complexity of NM_004535, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGATCTGCC  
GCC**CGCATCGCC**

ATGTCACTTGAGAACGAGGATAAACCGCGCCGCACACGGTCCAAAGCACTGAGAGGGCCACCTGAAACGA  
CTGCTGCAGACCTTTCATGCCCCACCCCTGGCTGCACAGGTAGCGGACATGTGCGCGAAAGTACTCTAG  
GCACCGCTCACTGCAGAGTTGCCCCCTGGCCAAGAAACGCAAGCTTGAGGGCGCCGAGGCTGAACACCTT  
GTTTCAAAGCGGAAGTCCACCCACTCAAAGTGGCACTGGATGAAGGTTATGGAGTGGATAGCGACGGGT  
CTGAGGATACAGAGGTGAAAGATGCCAGCGTGAGCGACGAATCCGAGGGAACGCTGGAGGGTGTGAAGC  
CGAAACCTCTGGACAAGACGAAATCCACCGCCAGAGACGGCCGAGGGCAGATCACCGGTTAAGTCTCAC  
TTCGGCTCAAATCCTATAGGATCTGCAACGGCTCTAGTAAAGGTTCTATTCTTCTTACCAGGGCATAA  
TTGCTACCTCCCTGTTGAACTTGGGACAGATCGCAGAAGAGACTCTGGTAGAAGAGGACCTCGGTCAGG  
AGCGAAAACCCGGACCTGGTATTGTGCACCTCTGCAGGAGGCCGCGAGGGTGTGCAAGTGAGGAGGGG  
GAAAAAGGACTGTTTATCCAGCCGAGGACGCTGAGGAGTCTGGAGGTGACAACAAGACGGAGTCAGG  
ACCTCTGCCCTCAGAGTCTCAGGATGCAGCGTCCGAGGAATCCTCCAAGCAGAAGGGCATCTTGTCTCA  
TGAGGAAGAGGATGAGGAGGAAGAGGAAGAAGAGGAAGAAGAGGAGGACGAAGAGGAAGAGGAGGAG  
GAGGAGGAAGAAGAGGAGGAAGAGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAGGAGGAGGAGG  
AGGAGGAGGCTGCCCTGATGTGATTTTCAGGAAGATACCAGCCACACCTCTGCTCAAAGGCCCCAGA  
ACTCCGGGGTCCCGAATCACCTCTCCTAAGCCCGAGTACTCAGTAATCGTGAAGTGCCTCAGATGAC  
GACAAGGACGAAGATACTCATAGTCGAAAAGCACAGTGACCGACGAGAGCGAAATGCAGGATATGATGA



CCAGGGGAAACCTTGGCTTGCTGGAGCAGGCCATAGCCCTTAAGGCCGAACAGGTGAGGACTGTCTGCGA  
GCCGGGTGTCTCTGCGGAACAGTCACAACCTGGGCCTGGGGAAACCCGGCAAAGCGGCAAAGCCTCTC  
GACACGGTTAGGAAGAGCTATTACTCAAAGGATCCATCCCAGCCGAGAAAGCGAGAAATTAATGTCCCA  
CACCCGGTGGATGGTACGGGGCATGTTACAGGCCTGTACCCACACCATCGATCCCTGTCTGGGTGCC  
CCACAAGGATAGAATCCCCCAGAGATTCTGGCAATGCATGAGAACGTTCTGAAGTGTCTACCCAGGT  
TGCACCGGACAGGGGCATGTAACAGCAACCGGAACACACATCGTCACTCTCAGGATGCCCCATTGCAG  
CGGCTGAGAAACTTGCAGAAAGCCAGAAAAGCAGCAACCTCAGACGGGGACCCGTCAAAAAGCAGCTC  
TAATAGTGACAGGATCCTGCGGCCCATGTGCTTGTCAAGCAGCTGGAGGTGCCCCATACGGGAGTTAC  
CGGCCAAACGTGGCACCAGCCACGCCAGGGCCAACTTGCCAAAGAGCTGGAAAAGTTCAGCAAAGTCA  
CCTTTGATTATGCTTCATTTCGATGCACAGGTGTTTCGGTAAGCGGATGCTCGCTCCTAAGTCCAGACATC  
TGAGACATCACCCAAAGCTTTTCAGTGTTCGATTATTCCAGGATGCAGAAGCAGCTCATATGGCTGCA  
ACAGCTATACTGAATCTGAGTACGAGGTGCTGGGAGATGCCAGAAAAGTGTCAACAAAGCCTCAGGACT  
TGCCAGTAAATCCGTAGACATCGAAGTGGATGAGAATGGTACGCTGGATTTGTCAATGCACAAGCATAG  
AAAAGAGAGAATGCGTTCCTAAGCTCAAGCAGTTGCTCTAGCTCACCAGGGTTAAGTCCCAGACGCA  
AGTCAGCGCCATAGTTCACCTCCGCCCTAGCTCATCAATGACAAGTCCCTCAGTCTAGCCAGGCGTCCA  
GACAGGACGAGTGGGACAGGCCACTGGACTATACGAAGCCAGCCGGCTCCGGGAAGAAGAACAGAGGA  
GTCTGAGCCCGGCCCATAGTTTTGCCTCATCCGAGGAGATGACCAGGAAGTGTCCGAAGAAAACCTT  
GAGGAGCGAAAATATCCGGGTGAGGTTACCCCTACCAATTTAAGCTCAAGTTCTGTCTAAGGACATCA  
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CCATAGATCACTCAGTGGCTGTCCCCTGGCCGACAAAAGTCTCAGAAATCTGATGGCCGCCACAGCGCG  
GATCTCAAGTGCCCAACCCAGGATGCGACGGAAGTGCCACATCACTGGGAATTACGCCTCCCACCGGA  
GCCTCAGCGGGTGCCCAAGGGCTAAAAAAGCGGAGTAAAGTGGCTCCCACTAAGGATGACAAGGAGGA  
TCCCAGCTGATGAAATGCCCTGTTCCAGGCTGTGTTGGCTTGCCATATCTCCGGGAAGTACGCTAGT  
CACCGCTCTGCCAGCGGATGCCCTGGCTGCTAGGCGCCAGAAAGAGGGGTCCCTGAACGGAAGTTCCT  
TCTCTGGAAGAGCCTGAAAAATGAGGGCCCTACGTGTCTACGCCTGGATGTGATGGATCAGGCCACGC  
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AACTTAGCGGGATGAAGTTCTCTCTCTAAATCAAGACATCCGACGTGCTGGAGAATGATGAAGAAA  
TCAAGCAGCTGAATCAGGAGATTCGAGATTTGAACGAAAGCAACTCAGAAATGGAGGCTGCCATGGTGCA  
GCTCCAGAGCCAGATTAGCAGCATGGAGAAGAACCTCAAGAATATAGAAGAAGAAAACAAGCTTATAGAG  
GAGCAAAACGAGGCCCTGTTTCTGGAGTTGTGAGGCTCAGCCAGGCACTGATTGATCCCTGGCTAATA  
TTAGGCTTCCGCACATGGAACCAATTTGTGAGCAAACTTTGATGCATACGTCTCCAGCTTACAGATAT  
GTATTCTAACAGGACCCGAGAACAAAGACCTCTGGAATCAATCAAACAGGCCGTGAGGGGAATTCAG  
GTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC224321 representing NM\_004535  
 Red=Cloning site Green=Tags(s)

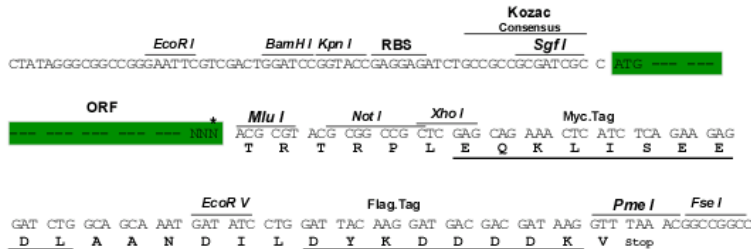
MSLENEDKRARTRSKALRGPPETTAADLSCPTPGCTGSGHVRGKYSRHRSLQSCPLAKKRKLEGAEAEHL  
 VSKRKSHPLKLALDEGYGVDSDGSEDTEVKDASVSDSEGTLEGAEAEETSGQDEIHRPETAEGRSPVKSH  
 FGSNPIGSATASSKGSYSSYQGIATSLNLGQIAEETLVEEDLGQAAPGPGIVHLLQEAAGAASEEG  
 EKGLFIQPEDAEVVEVTTERSQDLCPQSLLEDAASEESSKQKQKILSHEEEEEEEEEEEEEEEEEEEEE  
 EEEEEEEEEEEEEEEEEEEEEEEEEEAAPDVIFQEDTSHTSAQKAPELRGPESPSPKPEYSVIVEVRSD  
 DKDEDTHSRKSTVTDESEMMDMTRGNLGLLEQAIALKAEQVRTVCEPGCPPEAQSQLGLGEPGKAAKPL  
 DTVRKSYSYKDPSSRAEKREIKCPTPGCDGTGHVTGLYPHHRSLSGCPHKDRIPPEILAMHENVLKCP  
 CTGQGHVNSNRNTHRSLSGCPIAAAELAKSHEKQQPQTGDPSKSSNSDRILRPMCFVKQLEVPYGSY  
 RPNVAPATPRANLAKELEKFSKVTFDYASFDAQVFGKRLAPKIQTSETSPKAFQCFDYSQDAEAHMAA  
 TAILNLSTRCWMPENLSTKPQDLPSKVDIEVDENGLDL SMHKHRKRENAFPSSSSCSPGKSPDA  
 SQRHSSTAPSSSMTSPQSSQASRQDEWDRPLDYTKPSRLREEPEESEPAAHSFASSEADDQEVSEENF  
 EERKYPGEVTLTNFKLKFLSKDIKKELLTCPTPGCDGSGHITGNYASHRSLSGCPLADKSLRNLMAAHS  
 DLKCPPTGCDGSGHITGNYASHRSLSGCPRAKSGVKVAPTCKDDKEDPELMKCPVPGCVGLGHISGKYAS  
 HRSASGCPAARRQKEGSLNGSSFWSKSLKNEGPTCPTPGCDGSGHANGSFLTHRSLSGCPRATFAGKKG  
 KLSGDEVLSPKFKTSDVLENDIEIKQLNQEIRDLNESNSEMAAMVQLQSQISSMEKLNKNIIEENKLI  
 EQNEALFLELSGLSQALIQSLANIRLPHMEPICEQNFDAVYVSTL TDMYSNQDPENKDLLESIKQAVRGIQ  
 V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:  
 Cloning Scheme:

Sgfl-MluI

Cloning sites used for ORF Shuttling:



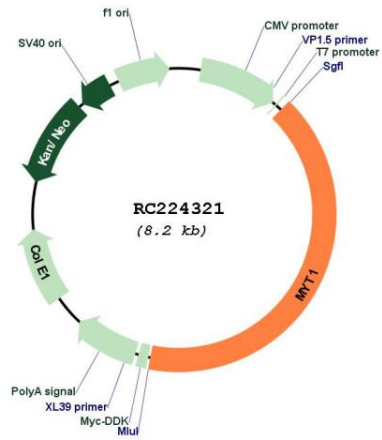
\* The last codon before the Stop codon of the ORF

ACCN: NM\_004535

ORF Size: 3363 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_004535.1</a> , <a href="#">NM_004535.2</a> , <a href="#">NP_004526.1</a>
<b>RefSeq Size:</b>	5557 bp
<b>RefSeq ORF:</b>	3366 bp
<b>Locus ID:</b>	4661
<b>UniProt ID:</b>	<a href="#">Q01538</a>
<b>Cytogenetics:</b>	20q13.33
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	122.3 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a member of a family of neural specific, zinc finger-containing DNA-binding proteins. The protein binds to the promoter regions of proteolipid proteins of the central nervous system and plays a role in the developing nervous system. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224321