

Product datasheet for **RG224321**

MYT1 (NM_004535) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYT1 (NM_004535) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MYT1
Synonyms:	C20orf36; MTF1; MYTI; NZF2; PLPB1; ZC2H2C1; ZC2HC4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224321 ORF sequence, codon optimized . 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCACTTGAGAACGAGGATAAACGCGCCCGCACACGGTCCAAAGCACTGAGAGGGCCACCTGAAACGA
CTGCTGCAGACCTTTTCATGCCCCACCCCTGGCTGCACAGGTAGCGGACATGTGCGCGGAAAGTACTCTAG
GCACCGCTCACTGCAGAGTTGCCCCCTGGCCAAGAAACGCAAGCTTGAGGGCGCCGAGGCTGAACACCTT
GTTTCAAAGCGGAAGTCCACCCACTCAAAGTGGCACTGGATGAAGGTTATGGAGTGGATAGCGACGGGT
CTGAGGATACAGAGGTGAAAGATGCCAGCGTGAGCGACGAATCCGAGGGAACGCTGGAGGGTGTGAAGC
CGAAACCTCTGGACAAGACGAAATCCACCGCCAGAGACGGCCGAGGGCAGATCACCGGTTAAGTCTCAC
TTCGGCTCAAATCCTATAGGATCTGCAACGGCTCTAGTAAAGGTTCTATTCTTCTTACCAGGGCATAA
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CCAGGGGAAACCTTGGCTTGCTGGAGCAGGCCATAGCCCTTAAGGCCGAACAGGTGAGGACTGTCTGCGA
GCCGGGTGTCTCTGCGAACAGTCACAACCTGGGCCTGGGGAAACCCGGCAAAGCGGCAAAGCCTCTC
GACACGGTTAGGAAGAGCTATTACTCAAAGGATCCATCCCAGCCGAGAAAGCGAGAAATTAATGTCCCA
CACCCGGTGGATGGTACGGGGCATGTTACAGGCCTGTACCCACACCATCGATCCCTGTCTGGGTGCC
CCACAAGGATAGAATCCCCCAGAGATTCTGGCAATGCATGAGAACGTTCTGAAGTGTCTACCCAGGT
TGCACCGGACAGGGGCATGTAACAGCAACCGGAACACACATCGTCACTCTCAGGATGCCCCATTGCAG
CGGCTGAGAAACTTGCAGAAAGCCAGAAAAGCAGCAACCTCAGACGGGGGACCCGTCAAAAAGCAGCTC
TAATAGTGACAGGATCCTGCGGCCCATGTGCTTGTCAAGCAGCTGGAGGTGCCCCATACGGGAGTTAC
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TCAAGCAGCTGAATCAGGAGATTCGAGATTTGAACGAAAGCAACTCAGAAATGGAGGCTGCCATGGTGCA
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GAGCAAAACGAGGCCCTGTTTCTGGAGTTGTGAGGCTCAGCCAGGCACTGATTCAGTCCCTGGCTAATA
TTAGGCTTCCGCACATGGAACCAATTTGTGAGCAAACTTTGATGCATACGTCTCCACGCTTACAGATAT
GTATTCTAACAGGACCCGAGAACAAAGACCTCTGGAATCAATCAAACAGGCCGTGAGGGGAATTCAG
GTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224321 representing NM_004535
 Red=Cloning site Green=Tags(s)

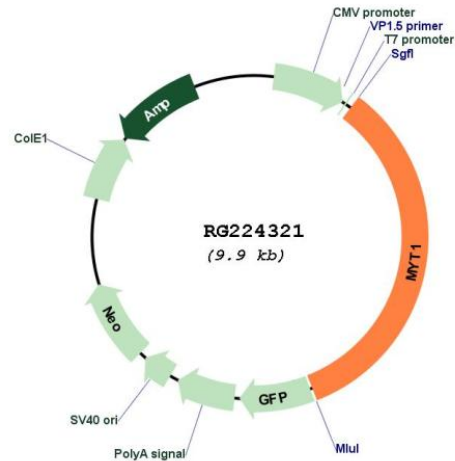
MSLENEDKRARTRSKALRGPPETTAADLSCPTPGCTGSGHVRGKYSRHRSLQSCPLAKKRKLEGAEAEHL
 VSKRKSHPLKLALDEGYVDSGDSEDEVKDAVSDESEGTLEGAEAEETSGQDEIHRPETAEGRSPVKSH
 FGSNPIGSATASSKGSYSSYQGIATSLNLGQIAEETLVEEDLGQAAPGPGIVHLLQEAAGAASEEG
 EKGLFIQPEDAEVVEVTTERSQDLCPQSLLEDAASEESSKQKQKILSHEEEEEEEEEEEEEEEEEEE
 EEEEEEEEEEEEEEEEEEEEEEEEEEAAPDVIFQEDTSHTSAQKAPELRGPESPSPKPEYSVIVEVRSD
 DKDEDTHSRKSTVTDESEMQDMMTRGNLGLLEQAIALKAEQVRTVCEPGCPPEAQSQLGLGEPGKAAKPL
 DTVRKSYSYKDPSSRAEKREIKCPTPGCDGTGHVTLGLYPHHRSLSGCPHKDRIPPEILAMHENVLKCP
 CTGQGHVNSNRNTHRSLSGCPIAAAELAKSHEKQQPQTGDPSKSSNSDRILRPMCFVKQLEVPYGSY
 RPNVAPATPRANLAKELEKFSKVTFDYASFDAQVFGKRLAPKIQTSETSPKAFQCFDYSQDAEAHMAA
 TAILNLSTRCWMPENLSTKQDLPSKSDIEVDENGLDL SMKHHRKRENAFPSSSSSSSPGVKSPDA
 SQRHSSTAPSSSMTSPQSSQASRQDEWDRPLDYTKPSRLREEPEESEPAAHSFASSEADDQEVSEENF
 EERKYPGEVTLTNFKLKFLSKDIKKELLTCPTPGCDGSGHITGNYASHRSLSGCPLADKSLRNLMAAHS
 A DLKCPPTGCDGSGHITGNYASHRSLSGCPRAKSGVKVAPT KDDKEDPELMKCPVPGCVGLGHISGKYAS
 HRSASGCPAARRQKEGSLNGSSF SWKSLKNEGPTCPTPGCDGSGHANGSFLTHRSLSGCPRATFAGKKG
 KLSGDEVLSPKFKTSDVLENDEEIKQLNQEIRDLNESNSEMAAMVQLQSQISSMEKLNKNIIEENKLI
 EQNEALFLELSGLSQALIQSLANIRLPHMEPICEQNFDAVYVSTL TDMYSNQDPENKDLLESIKQAVRGIQ
 V

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
 Cloning Scheme:



Plasmid Map:



ACCN: NM_004535

ORF Size: 3363 bp

OTI Disclaimer: 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_004535.2](#), [NP_004526.1](#)

RefSeq Size: 5557 bp

RefSeq ORF: 3366 bp

Locus ID: 4661

UniProt ID: [Q01538](#)

Cytogenetics: 20q13.33

Protein Families: Transcription Factors

Gene Summary: 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]