

Product datasheet for MR224914

Myt1 (NM_001171616) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myt1 (NM_001171616) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Myt1
Synonyms: Nzf; NZF-; Nzf2; Nzf2a; Nzf2b; Nztf; Nztf2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR224914 representing NM_001171616
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGAGCTCAGAAAGTGATGACAAGCGAGCCCGCACACGGTCCAAGACCCTCCGAGGACCCCCAGAGACCA
CAGGTGCAGACCTCAGTTGTCTACCCAGGATGTACTGGTTCAGGACATGTGCGGGCAAGTACTCCAG
ACATCGAAGCTTACAGAGTTGCCCTCTGGCCAAGAAGAGAAAACGGAGGATGCTGAGACTGAGCACCTG
GTATCCAAGAGGAAGTCACACCCTCTGAGGCTGGCTCTGGATGAGGGTTACCGCATGGACAGTGATGGCA
GTGAGGATGCTGAAGTGAAGGACGCTCTGTTCAGATGAATCAGAAGGACCCCTGGAGGAGGCTGAGGC
TGAGATGTCAGGACAGGAGGAGATTCATCACCCACAGACAGCTGAAGGAAAAAGCCTCATCAAGCCCCAT
TTTGACTCCAACCCACAAAGCAGCCCTTCTGGCTTCTCCAAGAGCAGCTACAGTAGCTACCAGGGGATCA
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AGCTAAGTTGAGCCCCACTGTTGTTTCATCAGCTTCAGGATGAGGCTGCAATGGGGTCAACAGTGACGAG
GGTGAAAAGGACCTCTTTATACAGCCAGAAGATGTGGAGGAGGTCATTGAAGTCACAAGTGAACGTTCCC
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TCATGAGGAGGAGGAGAGGAGGAGGAAGAAGATGAAGAAGAAGAGGATGAGGAGGAGGAGGAGGAGGA
GAGGAAGGAGAAGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGATGAAGAGGAAGAGGAGG
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TCCTGAGTTCCGAGGCCAGAGCTATCTAGTCCTAAACCTGAGTACTCAGTCATCGTGGAGGTTCTGCTCT
GATGATGACAAGGATGAGGATTCACGCTCCAGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
TGATGACCCGTGGGAATTTAGGCCTTCTGGAACAGGCCATTGCCCTGAAGGCTGAGCAGGTGCGAGCGGT
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CCCCTGGACGTGGTGAAGAGGCTGCTACAGCAAAGATCCTTCCAGGTTGAGAAAGCGTGAATCAAGT
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AGCAGCTTGAGGTTCCACCTTATGGGAGCTACAGACCCAATGTGGCTCCCGCCACGCCAGGGCCAACTT
 GGCCAAGGAGCTGGAGAAGTTCTCCAAAGTCACCTTTGACTACGCAAGTTTTGATGCTCAGGTTTTTGGC
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 GGCTCGGCCACATCAGCGGCAAATATGCCTCTCACAGGAGTGCTTCTGGCTGCCACTGGCTGCTCGGAG
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224914 representing NM_001171616
 Red=Cloning site Green=Tags(s)

MSESDDKRARTRSKTLRGPETTADLSCPTPGCTGSGHVRGKYSRHRSLQSCPLAKKRKLEDAETEHL
 VSKRKSHPLRLALDEGYRMSDSEDVAEKDVSVDSESEGLEEEAEEMSGQEEIHHPQTAEKSLIKPH
 FDSNPTSSPSGFSSSYSSYQGIATSLNLGQIAEEALVKEDSVSVAKLSPTVVHQLQDEAAMGVNSDE
 GEKDLFIQPEDVEEVIEVTSERSQEPQSLKDMVSEESSKQKGVLGHEEEGEEEEEEEEEEEEEEEEEG
 EEEEEEEEEEEEEEEEEEEEEEEEEAAPNVIFGEDTSHTSVQKASPEFRGPELSSPKPEYSVIVEVRS
 DDDKDEDSRSQSAVTDSEMYDMMTRGNLGLLEQAIKAEQVRAVCESGCPPAEQHLGPGEKMAK
 PLDVVRKSCYSKDP SRVEKREIKCPTPGCDGTGHVTGLYPHHRSLSGCPHKDRIPPEILAMHENVLKCP
 TPGCTGQGHVNSNRNTHRRPFCFVKQLEVPYGSYRPNVAPATPRANLAKELEKFSKVTFDYASFDAQVFG
 KRMLAPKIQTSETSPKAFQCFDYSHDAEAAHMAATAILNLSTRCWEMPENLSTKPQDLPSKAVDIEVDEN
 GTLDL SMHKHRKRENTFPSSSSSSSPGVKSPDVSQRQSSTAPSSSMTSPQSSQASRQDEWDRPLDYTK
 PSRLREEEP EEPAAHSFASSEADDQEVSEENFEERKYPGEVTLTNFKLFLSKDIKELLTCTPTGCD
 GSGHITGNYASHRSLSGCLADKSLRNLMAHSADLKCP TPGCDGSGHITGNYASHRSLSGCPRAKKSGL
 KVAPT KDDKEDPELMKCPVPGCVLGHISGKYASHRSAGCPLAARRQKEGALNGSSF SWKSLKNEGPTC
 PTPGCDGSGHANGSFLTHRSLSGCPRTAFAGKKGKLSGDEILSPKFKTSDVLEND EEEIKQLNQEIRD LNE
 SNSEMEAMVQLQSQISSMEKNLKNIEEENKLEIEQNEALFLELSGLSQALIQSLANIRLPHMEPTICEQN
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

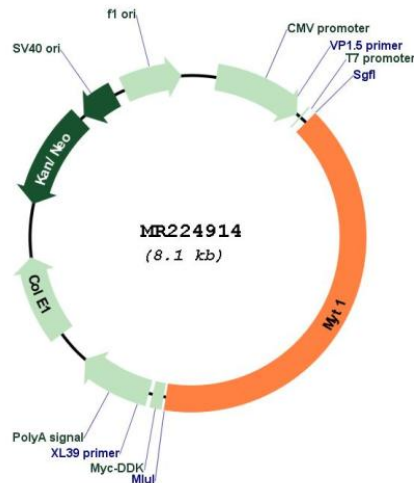
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001171616

ORF Size: 3267 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.

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_001171616.1, NP_001165087.1</u> |
| RefSeq Size: | 5415 bp |
| RefSeq ORF: | 3270 bp |
| Locus ID: | 17932 |
| UniProt ID: | <u>Q8CFC2</u> |
| Cytogenetics: | 2 103.77 cM |
| MW: | 120 kDa |
| Gene Summary: | This gene is a member of the myelin transcription factor 1 gene family. The encoded protein, a zinc finger DNA-binding protein, is involved in regulation of oligodendrocyte differentiation and proliferation in the developing central nervous system. The gene product has a role in remyelination through regeneration of oligodendrocyte lineage cells in response to demyelination. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010] |