

Product datasheet for **MR223108**

Myt1 (NM_001171680) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myt1 (NM_001171680) 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:	>MR223108 representing NM_001171680 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTCTCTTCAAGGCCCGTTGTTTCTTGTTTTATGCAGGAAAAGCCTCATCAAGCCCCATTTGACT
CCAACCCACAAGCAGCCCTTCTGGCTTCTCAAGAGCAGCTACAGTAGCTACCAGGGGATCATTGCAAC
TTCCCTCCTAAATCTGGGCCAAATTGCTGAAGAGGCCCTTGTAAGGAGGATTCCGTCTCAGTAGCTAAG
TTGAGCCCCACTGTTGTTTCATCAGCTTCCAGGATGAGGCTGCAATGGGGTCAACAGTGACGAGGGTGAAA
AGGACCTCTTTATACAGCCAGAAGATGTGGAGGAGGTCATTGAAGTCACAAGTGAACGTTCCAGGAGCC
ATGCCCCAGTCTCTGAAGGATATGTTAGTGAAGAGTCAAGTAAGCAGAAAGGAGTCTAGGTCATGAG
GAGGAGGGAGAGGAGGAGGAAGAAGATGAAGAAGAAGAGGATGAGGAGGAGGAGGAGGGAGAGGAAG
GAGAAGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGATGAAGAGGAAGAGGAGGAGGA
GGAAGCAGCTCCAAATGTTATCTTTGGGAAGACACCTCCCATACCTCTGTCCAGAAGCGTCTCCTGAG
TTCCGAGGCCAGAGCTATCTAGTCCTAAACCTGAGTACTCAGTCATCGTGGAGGTTCCGCTCTGATGATG
ACAAGGATGAGGATTCAGCTCCAGAAGTCAGCAGTCACAGATGAATCAGAAATGTATGACATGATGAC
CGTGGGAATTTAGCCCTTCTGGAACAGGCCATTGCCCTGAAGGCTGAGCAGGTGCGAGCGGTCTGTGAG
TCTGGCTGTCCACCTGCTGAGCAGGGCCATCTGGGCCAGGAGGCCAGGAAAAATGGCAAAGCCCTGG
ACGTGGTGAGGAAGAGCTGCTACAGCAAAGATCCTTCCAGGGTGGAGAAGCGTGAATCAAGTGTCCGAC
ACCTGGCTGTGATGGCACTGGCCATGTTACTGGATTGTACCCTCATCACCGCAGCCTGTCTGGCTGTCCC
CACAAGGATAGAATCCCTCCAGAGATCTTGCCATGCATGAAAATGACTGAAGTGCCCTACTCCTGGCT
GCACGGGCCAAGGCCATGTGAACAGCAACCGCAATACTCACAGAAGTTTATCTGGATGTCCCATTGCTGC
TGCTGAAAAATTAGCCAAATCTCATGAGAAGCAGCAATTGCAGACAGGAGATCCTCCAAAAATAACTCC
AATTCAGATCGGATCCTCAGGCCATGTGTTTTGTGAAGCAGCTTGAGGTTCCACCTTATGGGAGCTACA
GACCCAATGTGGCTCCCGCCACGCCAGGGCCAATTGGCCAAGGAGCTGGAGAAGTTCTCCAAAGTCAC
CTTTGACTACGCAAGTTTTGATGCTCAGTTTTTGGCAAACGTATGCTTGCCCCAAAGATTCAGACCAGC
GAAACCTACCCAAAGCCTTCCAATGCTTCGATTACTCTCATGATGCTGAGGCTGCACACATGGCTGCCA



[View online >](#)

CAGCCATCCTGAACCTCTCCACTCGATGTTGGGAGATGCCAGAGAACCTCAGCACAAGCCACAGGACCT
 CCCCAGCAAGGCTGTGGACATTGAGGTAGATGAAAATGGAACCTCTGGACTTGAGCATGCATAAACATCGC
 AAGCGGAAAAACTTTCCCCAGCAGTAGCAGCTGCAGTAGCAGCCCTGGTGTCAAGTCTCCTGATGTCT
 CTAACGTGAGAGCAGTACCAGTGCCCCAGCAGCTCTATGACCTCACCCAGTCCAGCCAGGCCTCTCG
 CCAGGATGAGTGGGACCGTCTCTAGACTACACCAAACCTAGTCGGCTTCGAGAGGAAGAGCCTGAGGAG
 TCAGAGCCAGCAGCACACTCTTTTGCTTCTTGAAGCAGATGATCAGGAGGTGTCAGAAGAGAACCTTTG
 AGGAGCGGAAGTATCCAGGGGAAGTACCCTAACCAACTTTAAGCTGAAGTTTCTTTCCAAGGACATAAA
 GAAGGAACCTTCTACCTGTCCCACCCCGCTGTGACGGCAGTGCCATATCACCGGAACTATGCCTCC
 CATCGCAGCCTCTCTGGTTGCCCTCTTGCTGACAAGAGCCTCAGAAACCTCATGGCTGCCCACTCTGCTG
 ACCTCAAGTGCCCCACACCTGGCTGTGATGGCTCTGGCCACATAACAGGGAACCTATGCTTACACCGGAG
 TTTGTGAGGCTGCCACGTGCCAAGAAGAGTGGACTCAAGGTGGCGCTACCAAGGATGACAAGGAGGAC
 CCCGAGTTGATGAAGTGCCAGTCCAGGCTGTGTGGGCTCGGCCACATCAGCGGCAAATATGCCTCTC
 ACAGGAGTGCTTCTGGCTGCCACTGGCTGCTCGGAGGCAGAAAGAGGGAGCTCTCAATGGTTCATCTTT
 CTCGTGGAAGTCGCTGAAGAATGAGGGCCCTACTTGCCCCACCCAGGTTGCGACGGCTCTGGCCATGCC
 AACGGCAGTTTCTCACCCACCGAAGTTTGTCTGGCTGTCCAGAGCAACCTTTGCTGGAAGAAAGGAA
 AACTCTCAGGGGATGAGATTCTCAGCCAAAGTCAAGACAAGTATGTGCTGGAGAATGATGAGGAGAT
 CAAGCAGCTAAATCAGGAGATACGAGACTTAAATGAGTCCAATTCGGAATGGAGGCTGCCATGGTGCAG
 CTGCAGTCTCAGATCTCGTCCATGGAGAAGAACCTGAAGAATCGAGGAGGAGAAACAGCTCATTGAGG
 AGCAGAATGAGGCCCTGTTTCTGGAATTGTCCGGGCTTAGCCAAGCCCTCATCCAAAGTCTTGCCAAAT
 TCGCCTTCCACACATGGAACCAATATGTGAACAGAATTTTGACGCCTATGTGAACACCCTCACTGACATG
 TACTCCAATCAGGACTGCTACCAGAATCCGAGAAACAAAGGCCTTCTGGAACGATCAAGCAAGCTGTGA
 GGGGCATTCAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223108 representing NM_001171680
 Red=Cloning site Green=Tags(s)

MLSSRPRCFLFYAGKSLIKPHFDSNPTSSPSGFSKSSYSYQGIATSLNLGQIAEEALVKEDSVSVAK
 LSPTVVHQLQDEAAMGVNSDEGEKDLFIQPEDVEEVIEVTSERSQEPQSLKDMVSEESSKQKGLGHE
 EEEEEEEDEEEEEEEEEEEEGEEEEEEEEEEEEEEEEEEEEEEEEEEAAPNVIFGEDTSHTSVQKASPE
 FRGPELSSPKPEYSVIVEVRSDDDKDEDSRSQSAVTDESEMYDMMTRGNLGLLEQAIKAEQVRVACE
 SGCPPEAQHGLPGEPGKMAKPLDVVRKSCYSKDP SRVEKREIKCPTPGCDGTGHVTGLYPHRSLSGCP
 HKDRIPPEILAMHENVLKCPPTGCTGQGHVNSNRNTHRSLSGCPIAAAELAKSHEKQQLQTGDPKNNNS
 NSDRILRPMCFVKQLEVPPYGSYRPNVAPATPRANLAKELEKFSKVTFDYASFDAQVFGKRLAPKIQTS
 ETSPKAFQCFDYSHDAEAAHMAATAILNLSTRCWEMPENLSTKPQDLPSKAVDIEVDENGLDL SMHKHR
 KRENTFPSSSSSSSPGVKSPDVSQRQSSTAPSSSMTSPQSSQASRQDEWDRPLDYTKPSRLREEEPEE
 SEPAAHSFASSEADDQEVSEENFEERKYPGEVTLTNFKLKFLSKDIKELLTCTPGCDGSGHITGNYS
 HRSLSGCPLADKSLRNLMAAHSADLKCPPTGCDGSGHITGNYSHRSLSGCPRAKKSGLKVAPTDDKED
 PELMKCPVPGCVLGHISGKYASHRSASGCPAARRQKEGALNGSSF SWKSLKNEGPTCTPGCDGSGHA
 NGSFLTHRSLSGCPRAFAGKKGKLSGDEILSPKFKTSDVLEND EEEKQLNQEIRDLNESNSEMEAMVQ
 LQSQISSMEKNLKNIEENKLEEQNEALFLELSGLSQALIQSLANIRLPHMEPICEQNFDAVNTLTD
 YSNQDCYQNPENKGLLETIKQAVRGIQV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<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_001171680.1</u> , <u>NP_001165151.1</u>
RefSeq Size:	5495 bp
RefSeq ORF:	3027 bp
Locus ID:	17932
Cytogenetics:	2 103.77 cM
MW:	111.1 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]