

Product datasheet for **MG220380**

Nutm1 (NM_172521) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nutm1 (NM_172521) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nutm1
Synonyms:	4932438M10; Nut
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220380 representing NM_172521 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCAGATGGAACCTCTCCATTACCAGGACCAGATATGTCCATGAAACCTGGCACTGGCCTGTCCC
CTTTCAGTGCCTTCTTTGCCCCACCTCCTCCTGTTCCACCAGATCAACCCCTCTGGGAGCCATCACC
ACAGCCCCCTATACCTCCTGTCTTCTCTCAAGCAATCCTCTGCTCCTTTCTGCTTTCCCAGCCCATTG
TTGGTGACAGGAGAAGGAGGCCCTGGCCCCAGTGTGGCTGGAACGGCCAGGTCATTGTCAAAGTCAAGA
CTGATGTGGGGCCAGCTGAGTCTCTCAAACCCAGAACCTTATAGTTACTCAGACTGCCCTAAACTGGAT
TCCTCAGGGGCTCCTTGTGGGAGCCAGGAGGGGCTCCTCCTCCTCGGTATGTGACCGCTCTAATGTG
AAGACCATCCTGCCTGTGTAGCAGTTGGAGTGAGCCAGGAGGGCCTTGCAGGACTTCTCTGCAGGTCC
TACCACCAGCTGCCAACTGGCTCCCATTTGTGCCCTGGAAAAGCCCTGGCCAGGAACACAAGCAACAAC
CATGGAAGGAGGCCCGTGGCTGCTCGGAAGCCCTCTCAAGGTGACCTTGCCATGCTTCCAAGGGTGT
TATGAGAACTATCGTCGCTGGCAGCGCTACAAAGTCTTGGCCCGGACTCACCTATCCCAGAGTCTGATG
TAGAAGCTCTTTCATGCTTCTTATCCCAGTCTCGTTCCTCGCCGACTGAAGCCTACTATGACCTT
GGAGGAGGACTGCCGAGGGCTCTGCAGGAATGGGAGCGGACCAGCAACTTTGACCGGATGATCTTTTAT
GAGATGGCAGAGAAGTTCATGGAGTTTGGGCCGAGGAAGAACACAGATACAGAATGCACAGTTGATGA
ATGGCTCCCCGGTCTGTCCCCTATAGCCCTTTGAAACTTGATCCTCCAGGGTCCATGGTCCCTGAGGC
TTGCCAGCAGCCAGTGTACATCCCTAAGAAGGCAGCCTCTAAGACTCGGGCTCCTCGCGCGCGCAACGC
AAACCTCAAAGGCCTCCTGTTCCGAGGCACCCAAAGAGATCCCACCTGAAGCTGTGCAAGAATATGTTG
ACATCATGGATGGGCTGATGGGAAGCTACGTGGACACTGGGAAGACAGAAGAGGAGGAGGGGCGCAGCA
GGAAGGTGCAGGGATGTATCCAGATCCAAGTCTTCTGAGCTACATTGATGAACTCTGTTCTCAGGAAGTC
TTTGTCTCCAAGGTGGAGGCAGTCATACCCCTCAGTTTCTGGCAGATCTGCTGTCTCCAGAAGAGCAGA
GAGATCCTTTGTCTTACTTGAGGAACTAGAGCAAGAAGAAGGACTGAATCTTGCCAGCTGGTCCAGAA
ACGACTCTTGGCCTTGGAGGAGGAAGATGCACAGACACCTCAAGTTGCAGCGGAGCTCAGTCAGACTCA



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AGTCCTTCTGTTTCTGATGAAGATGAAGACGGGGTCAAAGCGTCGGCCCTCACCTGGGCTTCAGGGG
 CTGCGGGCATTGTTTCGCATTGAAAAATCTGCTTCTCCAGGCAAGCAGGCAAGAGAAAATACATGGTGGGCA
 GGAACAAACACTAGGTGGTCCAGCGGGGATTACAAGGATGAAAAAATCTGCCATCCCCTAGCAGCTGG
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 CCCAATTTTGTGTTGGACTTACAGAGCCAGTTCCCTCTGCAAGGACTTGGGTTAGAAAAACAGGCTTGA
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 AGGTAATCTACTTTTTCTGTTGGAAAAATAGATCAGGTACCATACTAGATGTTAAAGATGACAGT
 TGCCCCAACAGGGGTGAGCAAGGATTCTGCTTATCAAATTTAATTCTTATAACCTCCAAGGAGAGG
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 TTCAGGAGGGCTTCCCTTAGTACTCGTACGGCCTCTGGAGGTGAGGAAATGTGAAAAACATCCCAGCAC
 TCTACTGAAGTAGATGACCTTGGCCAGCCTTACCCCTCCCAAGTCTGGGAAGCAAGCCCTAGTTGGGA
 GTCCAGCTACTGTTGTAGAGAGAGACCAGCAAGGAGCTCAGTTTAAATGGTTCTGGGCAGAAGCCCTTGC
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 AAACGACGTCGTAGCCAG

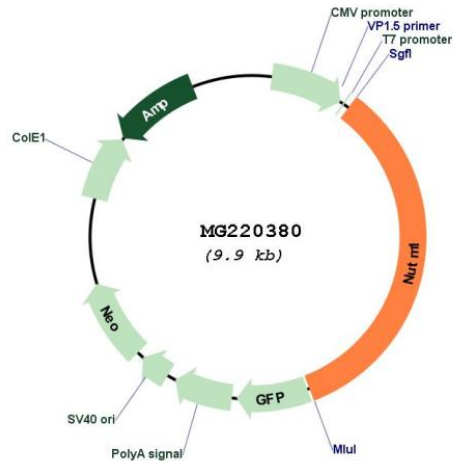
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220380 representing NM_172521
 Red=Cloning site Green=Tags(s)

MASDGTSP L PGPDM SMKPGTGLSPFSALPFAPPPVPPDQPLWEPSPQPPIPPVFSNPLLLSAFPSP
 LVTGEGGPGPSVAGTQGVIVKVKTDVGP AESSQTQNLIVTQTALNWIPSGAPCGSQEGPPPPRYVTASN
 KTI LPAVAVGVSQ ELAGLPLQVLPAAQLAPIVPLEKPWPQTATTMEGGPVAARKPSQGD LAYASKGV
 YENYRRWQRYKVLARTHLSQSPDVEALSCFLIPVLRSLARLKPTMTLEEGLPRALQEWERTSNFDRMIFY
 EMAEFMEFEAE EETQIQNAQLMNGSPGLSPIAPLKLDPGSMVPEACQPVYIPKKAASKTRAPRRRQR
 KPQRPPVPEAPKEIPPEAVQEYVDIMDGLMGSYVDTGKTEEEEGQEGAGMYPDPSLLSYIDELCSQEV
 FYSKVEAVIHPQFLADLLSPEEQRDPLS LLEELEQEENLAQLVQKRLLALEEDAQT PPSCSGAQSDS
 SPSVSD EDEDGGQRRRPSPLGQAAGIVRIGKSASPGKQAREIHGGQEQLGGPAGIHKDGNLPS PSSW
 DVQLELTASQGM PVLLGMERKMSGKAIKQLSATQDGH LGRTGSPGYYPVADRNP E VLPCCWQEDPQH MRA
 PNF DVGLTEPVPLQGLGLEKQALTLQIGKRIGGAGMLTRGREPPSVVSQKGSRAVRGDDRGPGMLQSYS
 QNHSPGAAGNLDVSLSPGLWLS DMGAVGLELPLQIETVIDSIQDEACRREDQALNSRNSASL GPRKNT
 VPKDVGNSVIPSGGPD TTA VPEKRNPCSLPGSLMASGPGLRSKEKISKENQALSPKTIQNP SDLWAEACP
 PLLLPTLV SSTLGSSKDTL IPTCQGNLLIIGTQDASSLAQTSQKAESRGNLLFPLENIDQVTILDVKDDS
 CPQPGVSKDSCLSNFNSYNLQEGREDTVSSKPTDLVPLQDNQESYTHETTKLTNGQGQGSTSPRWATRD
 AYILRETPIKEKCTADRKRRETEKEE EDEELSNFSYLLASKLSLSSGGLPLSTRQASGGQIVKTSRH
 STEVDDLQPSPPPKSGKQALVGPATVVERDQQAQFNGSGQKPLALGMAQLPQPRKRRRDGFVTSKRK
 KRRRSQ

TRTRPLE - GFP Tag - V

Plasmid Map:


ACCN: NM_172521

ORF Size: 3378 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_172521.2](#)

RefSeq Size: 3731 bp

RefSeq ORF: 3381 bp

Locus ID: 213765

UniProt ID: [Q8BHP2](#)

Cytogenetics: 2 E3

Gene Summary:

Plays a role in the regulation of proliferation. Regulates TERT expression by modulating SP1 binding to TERT promoter binding sites.[UniProtKB/Swiss-Prot Function]