

Product datasheet for **MC226814**

Nit1 (NM_001242580) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nit1 (NM_001242580) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nit1
Synonyms: A1255805; ESTM30; W57327
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226814 representing NM_001242580
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTCATCAACTTCTGGGAGCTGCCCTGGTGGCTGTGTGCCAGGTAACATCAACACCAACAAGC
 AAGAGAACCTTTAAACATGTGCTGAGTTGGTTCAAGAGGCTGCCAGACTGGGTGCTTGCCTGGCCTTTCT
 GCCTGAGGCATTTGACTTTATTGCACGAAACCCTGCCAGACATTACTCCTGTCCGAACCACTGAATGGG
 GATCTTTTGGGCCAATATAGCCAGCTTGCCAGGAATGTGGAATCTGGCTGTCTTTGGGCGTTTTCCAGG
 AGCGTGGCCAAGACTGGGAGCAGAATCAGAAAATCTACAATTGTCATGTGCTTTTGAACGCAAGGGATC
 AGTAGTGGCCAGTTACAGGAAGACACATCTGTGCGATGTAGAGATCCCAGGTCAGGGGCCGATGAGAGAA
 AGCAACTATACCAAGCCTGGAGGCACTCTTGAGCCACCTGTCAAGACACCGGCTGGCAAGTTGGTCTAG
 CAATCTGTTATGACATGCGGTTCCCTGAACCTTTCTTTGAAATTGGCTCAAGCTGGGGCAGAAATACTTAC
 TTATCCTTCAGCCTTTGGATCTGTTACAGGTCCAGCCACTGGGAGGTGCTGCTGCGGGCCCGCCATT
 GAATCTCAGTGTATGTAATAGCAGCAGCGCAGTGTGGACGCCACCATGAAACAAGAGCAAGTTATGGCC
 ATAGCATGGTGGTTGACCCGTGGGCACAGTGGTGGCCCGCTGCTCCGAGGGACCAAGCCCTGCCTTGC
 TCGAATTGATCTCCACTTTCTACAACAGATGCGCCAACACCTGCCTGTGTTCCAGCACCGCAGACCTGAC
 CTCTATGGCAGTCTGGTTCATCCACTCTCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001242580
Insert Size: 873 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001242580.1</u> , <u>NP_001229509.1</u>
RefSeq Size:	1374 bp
RefSeq ORF:	873 bp
Locus ID:	27045
UniProt ID:	<u>Q8VDK1</u>
Cytogenetics:	1 79.35 cM
Gene Summary:	<p>Catalyzes the hydrolysis of the amide bond in N-(4-oxoglutarate)-L-cysteinylglycine (deaminated glutathione), a metabolite repair reaction to dispose of the harmful deaminated glutathione. Plays a role in cell growth and apoptosis: loss of expression promotes cell growth, resistance to DNA damage stress and increased incidence to NMBA-induced tumors. Has tumor suppressor properties that enhances the apoptotic responsiveness in cancer cells; this effect is additive to the tumor suppressor activity of FHIT. It is also a negative regulator of primary T-cells.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site at the 5' end compared to variant 1. This difference causes translation initiation at a downstream AUG and results in an isoform (2) with a shorter N-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>