

Product datasheet for **SC116684**

NIT1 (NM_005600) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIT1 (NM_005600) Human Untagged Clone
Tag:	Tag Free
Symbol:	NIT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116684 sequence for NM_005600 edited (data generated by NextGen Sequencing)

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ATGCTGGGCTTCATCACCAGGCCTCCTCACAGATTCTGTCCCTTCTGTGTCCTGGACTC
CGGATACCTCAACTCTCAGTACTTTGTGCTCAGCCCAGGCCAGGCCATGGCTATCTCC
TCTTCTCCTGCGAACTGCCCTGGTGGCTGTGTGCCAGGTAACATCGACGCCAGACAAG
CAACAGAACTTTAAAACATGTGCTGAGCTGGTTCGAGAGGCTGCCAGACTGGGTGCCTGC
CTGGCTTTCCTGCCTGAGGCATTTGACTTCATTGCACGGGACCCTGCAGAGACGCTACAC
CTGTCTGAACCACTGGGTGGGAACTTTTGAAGAATACACCCAGCTTGCCAGGGAATGT
GGACTCTGGCTGTCTTGGGTGGTTTCCATGAGCGTGGCCAAGACTGGGAGCAGACTCAG
AAAATCTACAATTGTCACGTGCTGCTGAACAGCAAAGGGGCAGTAGTGGCCACTTACAGG
AAGACACATCTGTGTGACGTAGAGATTCCAGGGCAGGGCCTATGTGTGAAAGCAACTCT
ACCATGCCTGGGCCAGTCTTGAGTCACCTGTCAGCACACCAGCAGGCAAGATTGGTCTA
GCTGTCTGCTATGACATGCGGTTCCCTGAACTCTCTCTGGCATTGGCTCAAGCTGGAGCA
GAGATACTTACCTATCCTTCAGCTTTTGGATCCATTACAGGCCAGCCACTGGGAGGTG
TTGCTGCGGGCCCGTGCTATCGAAACCCAGTGCTATGTAGTGGCAGCAGCACAGTGTGGA
CGCCACCATGAGAAGAGAGCAAGTTATGGCCACAGCATGGTGGTAGACCCTGGGGAACA
GTGGTGGCCCGTGCTCTGAGGGCCAGGCCTCTGCCTTGCCGAATAGACCTCAACTAT
CTGCGACAGTTGCGCCGACACCTGCCTGTGTTCCAGCACCCGAGGCCTGACCTCTATGGC
AATCTGGGTCAACCACTGTCTTAA
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Clone variation with respect to NM_005600.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005600 unedited GTAATACGACCTCACTATAGGGCGGCCGGAATTCGCACGAGGCTCCATCTTCCCCTGT ATGGTCTTGTCCTTAGCCTATAATTTCTTATAAAGAGCGTTTTGAAGACTAGGTTTTTA CTGGCAGGGCCCTGATTCAGGCTCACAGTATAAAGAGAGAAGTCAGAGAATCCTAGAAAT TTATTGCTTGAAGAAGGGGTTGGTGTCCATATCTCACCTTCTCAGGCTGGGCTTCAT CACCAGGCTCCTCACAGATTCTGTCCCTTCTGTGTCTGGACTCCGGATACCTCAACT CTCAGTACTTTGTGCTCAGCCCAGGCCAGGCCATGGCTATCTCCTTCTCCTCCTGCCA ACTGCCCTGGTGGCTGTGTGCCAGGTAACATCGACGCCAGACAAGCAACAGAACTTTAA AACATGTGCTGAGCTGGTTCGAGAGGCTGCCAGACTGGGTGCCTGCCTGGCTTCTGCC TGAGGCATTTGACTTCATTGCACGGGACCCTGCAGAGACGCTACACCTGTCTGAACCACT GGGTGGGAAACTTTTGAAGAATACACCCAGCTTGCCAGGGAATGTGGACTCTGGCTGTC CTTGGGTGGTTCCATGAGCGTGGCCAAGACTGGGAGCAGACTCAGAAAACTACAATTG TCACGTGCTGCTGAACAGCAAAGGGGCAGTAGTGGCCACTTACAGGAAGACACATCTGTG TGACGTAGAGATTCCAGGGCAGNNGCCTATGTGTGAAAGCAACTCTACCATGCCTGGGC CCAGTCTTGAGTACCTGTCAGCACACCAGCAGCAAGATTGGTCTAGCTGTCTGCTATG ACATGCNGTCCCTGACTCTCTCTGGCATTGGCTCAAGCTGGACAGAGATACTTACCTA TCCTTCACTTTTNGGATCCATACAGNCCCAGCACTGGGGGAGTGTGCTGGGGGCCGT GCTATCNAACCCANTGCTTTGTATGCAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005600 unedited CGGCCGAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTATTATATTTTTTCAATGC CAGTGTGCTCAGCCCTCAGCAGAACTCAGTTCCATGAAATAAACAATGACTATATAA AATTCCACCTTTCTGAACTGCAGTCTGACCTCAGGTGAAGCTCAAGTAAAGTTTCTTT CCAAGCAGCCCATCTGTGTTCCATCAAGAGAGTCAAGTTCTCCAAGTGAGGGGAGCTG TGCTGGATCCTGCCTCCAAGTCACATGAGCACTAGCTCATATTGGCAGGGTGGGGTGG GAGGGGCAGGTCTAAACTCACAGAAGTCAAGTCTTAAGACAGTGGGTGACCCAGATTGCC ATAGAGGTCAAGCCTGCGGTGCTGGAACACAGGCAGGTGTGCGGCAACTGTCGCAGATA GTTGAGGTCTATTCGGGCAAAGCAGAGGCTGGCCCTCAGAGCAGCGGGCCACCCTGT TCCCCAGGGTCTACCACCATGCTGAGGCCATAACTTGTCTCTTTTATGGGGCGTCCA CACTGTGCTGCTGCACTACTATCACTGGGTTTCGATACACGGGCCGAGCAACACCTTCC AGGGGCTGGGCTGAATGGATCCAAAGCCTGAGGATAGGTAGTATCTCTGCTCCATTTGA GCCATGCCAAAAAGAGTTCAGGAACCGCTTGCCTTTCAGACAGTTAACAATCTTGCTGC TGTGTGCTCGCAGGGGACTAAAAATGGCCATGCATGGACAATTGCTTTACACATAGCCC CCGCCCCGGAACCTACCAAAACATTGTTTTCTTTATGGCCCCCGCCCTTTCTGCC ACACCCCCCAATGGTTTTTCGCCCTTCCCCCTGGCCCTCTCTGATTCACCAGGACTC TCTCCCTTCTCTGGAACGGGTG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005600
Insert Size:	1580 bp
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).
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_005600.1](#), [NP_005591.1](#)

RefSeq Size: 1385 bp

RefSeq ORF: 984 bp

Locus ID: 4817

UniProt ID: [Q86X76](#)

Cytogenetics: 1q23.3

Domains: CN_hydrolase

Gene Summary: This gene encodes a member of the nitrilase protein family with homology to bacterial and plant nitrilases, enzymes that cleave nitriles and organic amides to the corresponding carboxylic acids plus ammonia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]
Transcript Variant: This variant (1) represents the shortest transcript and encodes the longest isoform (1).