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Product datasheet for SC108295

NIT2 (NM_020202) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIT2 (NM_020202) Human Untagged Clone
Tag:	Tag Free
Symbol:	NIT2
Synonyms:	HEL-S-8a
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC108295 sequence for NM_020202 edited (data generated by NextGen Sequencing)

ATGACCTCTTTCCGCTTGGCCCTCATCCAGCTTCAGATTTCTTCCATCAAATCAGATAAC
GTCACTCGCGCTTGTAGCTTCATCCGGGAGGCAGCAACGCAAGGAGCCAAAATAGTTTCT
TTGCCGGAATGCTTTAATTCTCCATATGGAGCGAAATATTTTCCTGAATATGCAGAGAAA
ATTCCTGGTGAATCCACACAGAAGCTTTCTGAAGTAGCAAAGGAATGCAGCATATATCTC
ATTGGAGGCTCTATCCCTGAAGAGGATGCTGGGAAATTATATAACACCTGTGCTGTGTTT
GGGCCTGATGGAACTTTACTAGCAAAGTATAGAAAGATCCATCTGTTTGACATTGATGTT
CCTGGAAAAATTACATTTCAAGAATCTAAAACATTGAGTCCGGGTGATAGTTTCTCCACA
TTTGATACTCCTTACTGCAGAGTGGGTCTGGGCATCTGCTACGACATGCGGTTTGCAGAG
CTTGCACAAATCTACGCACAGAGAGGCTGCCAGCTGTTGGTATATCCAGGAGCTTTTAAT
CTGACCACTGGACCAGCCCATTGGGAGTTACTTCAGCGAAGCCGGGCTGTTGATAATCAG
GTGTATGTGGCCACAGCCTCTCCTGCCCGGGATGACAAAGCCTCCTATGTTGCCTGGGGA
CACAGCACCGTGGTGAACCCTTGGGGGGAGGTTCTAGCCAAAGCTGGCACAGAAGAAGCA
ATCGTGTATTCAGACATAGACCTGAAGAAGCTGGCTGAAATACGCCAGCAAATCCCCGTT
TTTAGACAGAAGCGATCAGACCTCTATGCTGTGGAGATGAAAAAGCCCTAA

Clone variation with respect to NM_020202.4

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020202 unedited
NGGTCGAATTTGTATACGACTCCTATAGGCGGCCGCGNAATCGGCACGAGGCCGGATCTC
CAGCGCTCAGTCCGCGCCGCAGGTGGTGCTTGTCTGCAGAGTCATGACCTCTTTCCGCTT
GGCCCTCATCCAGCTTCAGATTTCTTCCATCAAATCAGATAACGTCACTCGCGCTTGTAG
CTTCATCCGGGAGGCAGCAACGCAAGGAGCCAAAATAGTTTCTTTGCCGGAATGCTTTAA
TTCTCCATATGGAGCGAAATATTTTCCTGAATATGCAGAGAAAATTCCTGGTGAATCCAC
ACAGAAGCTTTCTGAAGTAGCAAAGGAATGCAGCATATATCTCATTGGAGGCTCTATCCC
TGAAGAGGATGCTGGGAAATTATATAACACCTGTGCTGTGTTTGGGCCTGATGGAACTTT
ACTAGCAAAGTATAGAAAGATCCATCTGTTTGACATTGATGTTCCTGGAAAAATTACATT
TCAAGAATCTAAAACATTGAGTCCGGGTGATAGTTTCTCCACATTTGATACTCGTATGTA
CCAGATAAGTTTGCCTCTTTAGCAATCTCAGTAGAAGACAATCAGGTATTTATTTCTTTT
TTGTCTCTCTCCGATTTCTTCACATAACCTAACTGAAAGACCATAAGTGAGAAAGGCAGA
GAATCATCACAGATCTGGAAAGTTCGGGCTTATTTGAGAACTAANGATTTGACACGATTT
TGCCCTTTGATTTGATTGTAGCTTCCTGTTATGGCTTCCAGAGTATACCTATTAGGCTAC
CGTTGAGTACCTCCCATCTAGATCATAAGCATTCAATTAGAAATGAATTTCTCATCCTTA
GTCCGCTGAAGTAAATGCAGTCTTTATGAAATGAAGCCCAGTAAGAATGAGCTCGTAATT
A

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020202 unedited
CGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTCATTAAAGAATTTAATAGGGA
GTTGATTATGTTGTAGAATCATATCGTCCTATTCTGTGACACATTAAAAACATAAACTTT
AGGGCTTTTTCATCTCCACAGCATAGAGGTCTGATCGCTTCTGTCTAAAAACGGGGATTT
GCTGGCGTATTTCAGCCAGCTTCTTCAGGTCTATGTCTGAATACACGATTGCTTCTTCTG
TGCCAGCTTTGGCTAGAACCTCCCCCCAAGGGTTCACCACGGTGCTGTGTCCCCAGGCAA
CATAGGAGGCTTTGTCATCCCGGGCAGGAGAGGCTGTGGCCACATACACCTGATTATCAA
CAGCCCGGCTTCGCTGAAGTAACTCCCAATGGGCTGGTCCAGTGGTCAGATTAAAAGCTC
CTGGATATACCAACAGCTGGCAGCCTCTCTGTGCGTAGATTTGTGCAAGCTCTGCAAACC
GCATGTCGTAGCAGATGCCCAGACCCACTCTGCAGTAAGCTGTTTCCAAACAGAAAATGC
ACAAATGAAAAGTTAACTCCCTACAGCATGGTGTGGCAGGGGAAATCCTCCATGACATAA
TGATCACAAAACACTGACAGGGATAAATTAACACAGGACCTAAGGACAGAGATAATTTAC
AAGCTCATTCCTACTTGGACTTCATCTCATAAAGACATCATTTACATCAGCGGACTAAAG
ATGAGAAATTCATTCTAANTGAATGCTTATTATCTAGATGGGAGGTACTCAACTGTAGCC
TAATAGGTATACTCTGGAAGCCATACAGGGAGCTACAATCAAATCAAGGGCANAATCGTG
TCAAATCCTTAGTTCTCAAATAGCCCGAACTTCCAGACCTGGGATGATTCTCTGCCTTTC
TCACTTAGGGNCTTTCACTTAGGGTTATGGGAAGAAATCGGAGAGAGACAAAAAGAAAAA
AACCCCTGATGGCCTCTACTTGAAATGCCTAAGAAGA

Restriction Sites: NotI-NotI

ACCN: NM_020202

Insert Size: 1500 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_020202.2, NP_064587.1
RefSeq Size:	1019 bp
RefSeq ORF:	831 bp
Locus ID:	56954
UniProt ID:	Q9NQR4
Cytogenetics:	3q12.2
Domains:	CN_hydrolase
Gene Summary:	Has a omega-amidase activity. The role of omega-amidase is to remove potentially toxic intermediates by converting alpha-ketoglutaramate and alpha-ketosuccinamate to biologically useful alpha-ketoglutarate and oxaloacetate, respectively. Overexpression decreases the colony-forming capacity of cultured cells by arresting cells in the G2 phase of the cell cycle. [UniProtKB/Swiss-Prot Function]