

# Product datasheet for RC210660

# NIT2 (NM\_020202) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	NIT2 (NM_020202) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NIT2
Synonyms:	HEL-S-8a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC210660 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGACCTCTTTCCGCTTGGCCCTCATCCAGCTTCAGATTTCTTCCATCAAATCAGATAACGTCACTCGCG CTTGTAGCTTCATCCGGGAGGCAGCAACGCAAGGAGCCAAAATAGTTTCTTTGCCGGAATGCTTTAATTC TCCATATGGAGCGAAATATTTTCCTGAATATGCAGAGAGAAAATTCCTGGTGAATCCACACAGAAGCTTTCT GAAGTAGCAAAGGAATGCAGCATATATCTCATTGGAGGCTCTATCCCTGAAGAGGATGCTGGGAAATTAT ATAACACCTGTGTGTTTGGGCCTGATGGAACTTTACTAGCAAAGTATAGAAAGATCCATCTGTTTGA CATTGATGTTCCTGGAAAAATTACATTTCAAGAATCTAAAACATTGAGTCCGGGTGATAGTTTCTCCACA TTTGATACTCCTTACTGCAGAGTGGGTCTGGGCATCTGCTACGACATGCGGTTTGCAGAGCTTGCACAAA TCTACGCACAGAGAGGCTGCCAGCTGTTGGTATATCCAGGAGCTTTTAATCTGACCACTGGACCAGCCCA TTGGGAGTTACTTCCAGCAAGCCGGCTGTTGATAATCCAGGAGCTTTTAATCTGACCACTGGACCAGCCCA TTGGGAGTTACTTCCAGCGAAGCCGGGCTGTTGATAATCAGGTGTATGTGGCCACAGCCTCTCCTGCCCGG GATGACAAAGCCTCCTATGTTGCCTGGGGACACAGCACCGTGGTGAACCCTTGGGGGAGGTTCTAGCCA AAGCTGGCACAGAAGAAGCAATCGTGTATTCAGACATAGACCTGAAAAACCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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### **ORIGENE** NIT2 (NM\_020202) Human Tagged ORF Clone - RC210660

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 020202.5</u>
RefSeq Size:	1271 bp
RefSeq ORF:	831 bp
Locus ID:	56954
UniProt ID:	Q9NQR4
Cytogenetics:	3q12.2
Domains:	CN_hydrolase
MW:	30.6 kDa
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]

# **Product images:**



Circular map for RC210660

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NIT2 (Cat# RC210660, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NIT2(Cat# [TA501109]). Positive lysates [LY402761] (100ug) and [LC402761] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY402761]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210660 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified NIT2 protein (Cat# [TP310660]). The protein was produced from HEK293T cells transfected with NIT2 cDNA clone (Cat# RC210660) using MegaTran 2.0 (Cat# [TT210002]).

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