

## Product datasheet for **RG210660**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NIT2 (NM\_020202) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NIT2  
**Synonyms:** HEL-S-8a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210660 representing NM\_020202  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCTCTTTCCGCTTGGCCCTCATCCAGCTTCAGATTTCTTCCATCAAATCAGATAACGTCACCTCGCG  
 CTTGTAGCTTCATCCGGGAGGCAGCAACGCAAGGAGCCAAAATAGTTTCTTTGCCGGAATGCTTTAATTC  
 TCCATATGGAGCGAAATATTTTCTGAATATGCAGAGAAAATTCCTGGTGAATCCACACAGAAGCTTTCT  
 GAAGTAGCAAAGGAATGCAGCATATATCTCATTGGAGGCTCTATCCCTGAAGAGGATGCTGGGAAATTAT  
 ATAACACCTGTGCTGTGTTTGGCCTGATGGAACCTTACTAGCAAAGTATAGAAAGATCCATCTGTTTGA  
 CATTGATGTTCTGGAAAAATTACATTTCAAGAACTCTAAAACATTGAGTCCGGGTGATAGTTTCTCCACA  
 TTTGATACTCCTTACTGCAGAGTGGGTCTGGGCATCTGCTACGACATGCGGTTTGCAGAGCTTGACAAA  
 TCTACGCACAGAGAGGCTGCCAGCTGTTGGTATATCCAGGAGCTTTAATCTGACCACTGGACCAGCCCA  
 TTGGGAGTTACTTCAGCGAAGCCGGGCTGTTGATAATCAGGTGTATGTGGCCACAGCCTCTCCTGCCCGG  
 GATGACAAAGCCTCCTATGTTGCCTGGGGACACAGCACCGTGGTGAACCTTGGGGGAGGTTCTAGCCA  
 AAGCTGGCACAGAAGAAGCAATCGTGTATTCAGACATAGACCTGAAGAAGCTGGCTGAAATACGCCAGCA  
 AATCCCGTTTTTAGACAGAAGCGATCAGACCTCTATGCTGTGGAGATGAAAAAGCCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210660 representing NM\_020202  
 Red=Cloning site Green=Tags(s)

MTSFRLLAIQLQISSIKSDNVTRACSFIREAATQGAKIVSLPECFNSPYGAKYFPEYAEKIPGESTQKLS  
 EVAKECSIYLIIGGSIPEEDAGKLYNTCAVFGPDGTL LAKYRKIHLFDIDVPGKITFQESKTLSPGDSFST  
 FDTPYCRVGLGICYDMRFAELAQIYAQRGCQLL VYPGAFNLTTGPAHWELLQRSRAVDNQYVATASPAR  
 DDKASYVAWGHSTVVNPWGEVLAKAGTEEAIVYSDIDLKLAELRQQIPVFRQKRSPLYAVEMKKP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020202

**ORF Size:** 828 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\\_020202.5](#)

**RefSeq Size:** 1019 bp

**RefSeq ORF:** 831 bp

**Locus ID:** 56954

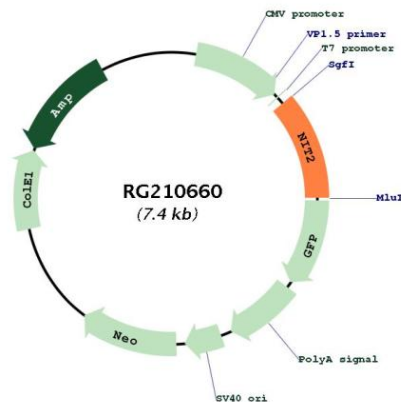
**UniProt ID:** [Q9NQR4](#)

**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]

## Product images:



Circular map for RG210660