

Product datasheet for **RR213952**

Nit2 (NM_001034126) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nit2 (NM_001034126) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nit2
Synonyms: RGD1310494
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213952 representing NM_001034126
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTACTTTCCGCTGGCCCTCATCCAGCTTCAGGTTTCTTCCATTAATCAGATAACATTACCCGGG
 CTTGTAGCCTAGTCCGGGAGGCAGCAAAGCAAGGTGCCAACATAGTTTCTCTGCCGGAGTGCTTCAATTC
 TCCATATGGAACAACTACTTTCTGAATACGCAGAGAAGATTCTGGAGAGTCCACAAAGAAGCTTTCT
 GAAGTCGCAAAGGAGAACAGCATATACCTATTGGAGGCTCCATCCAGAAAGAGGATGATGGGAACTGT
 ATAATACCTGCGCTGTGTTTGGCCTGATGAAATTTACTGGTAAAGCACAGAAAGATCCATCTGTTTGA
 CATTGATGTTCTGGGAAAATTACATTTCAAGAATCCAAAACACTGAGTCCTGGTGATAGTTTCTCCACG
 TTTGATACCCCTTACTGCAGAGTGGCCTGGGCATCTGCTACGATATGCGCTTCGCAGAGCTTGACAAA
 TCTATGCACGAAGAGGCTGCCAGCTCTTGGTGTATCCTGGAGCTTCAATATGACCACTGGACCAGCCCA
 CTGGGAGTTGCTTCAGCGAGCCCGAGCTGTTGATAATCAGGTGTATGTGGCTACAGCCTCTCCTGCCCGG
 GATGAGAAAGCCTCGTACGTGGCCTGGGACACAGCACTGTGGTGGATCCTTGGGGCAGGTCCTAAACCA
 AAGCTGGCACCGAGGAAACAATCCTGTACTCAGACATAGACCTGAAGAAGCTGTCTGAAATTCGGCAGCA
 AATTCCTTTTAAAACAGAAACGAGCAGACCTTATTAGTGGAGTCAAGAAGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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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:	<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:	NM_001034126.1 , NP_001029298.1
RefSeq Size:	1054 bp
RefSeq ORF:	831 bp
Locus ID:	288174
UniProt ID:	Q497B0
Cytogenetics:	11q12
MW:	30.7 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.[UniProtKB/Swiss-Prot Function]