

Product datasheet for **RG211519**

NIT1 (NM_005600) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NIT1 (NM_005600) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NIT1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211519 representing NM_005600
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGCTTCATCACCAGGCCTCCTCACAGATTCCTGTCCCTTCTGTGTCTGGACTCCGGATACCTC
AACTCTCAGTACTTTGTGCTCAGCCCAGGCCAGAGCCATGGCTATCTCCTCTTCCTCCTGCGAACTGCC
CCTGGTGGCTGTGTGCCAGGTAACATCGACGCCAGACAAGCAACAGAACCTTTAAACATGTGCTGAGCTG
GTTGAGAGGCTGCCAGACTGGGTGCCTGCCTGGCTTTCTGCTGAGGCATTTGACTTCATTGCACGGG
ACCGTGACAGACGCTACACCTGTCTGAACCACTGGGTGGGAACTTTTGAAGAATAACACCCAGCTTGC
CAGGGAATGTGGACTCTGGCTGTCTTGGGTGGTTTCCATGAGCGTGGCCAAGACTGGGAGCAGACTCAG
AAAATCTACAATTGTACGTGCTGCTGAACAGCAAAGGGCAGTAGTGGCCACTTACAGGAAGACACATC
TGTGTGACGTAGAGATTCCAGGGCAGGGCCTATGTGTGAAAGCAACTCTACCATGCCTGGGCCAGTCT
TGAGTCACCTGTCAGCACACCAGCAGGCAAGATTGGTCTAGCTGTCTGCTATGACATGCGGTTCCCTGAA
CTCTCTTGGCATTGGCTCAAGCTGGAGCAGAGATACTTACCTATCCTTCAGCTTTTGGATCCATTACAG
GCCCAGCCCACTGGGAGGTGTTGCTGCGGGCCCGTCTATCGAAACCCAGTGCTATGTAGTGGCAGCAGC
ACAGTGTGGACGCCACCATGAGAAGAGAGCAAGTTATGGCCACAGCATGGTGGTAGACCCCTGGGAACA
GTGGTGGCCCGTCTCTGAGGGGCCAGGCCTCTGCCTTGCCCGAATAGACCTCAACTATCTGCGACAGT
TGCGCCGACACCTGCCTGTGTTCCAGCACCGCAGGCCTGACCTCTATGGCAATCTGGGTACCCCACTGTC
T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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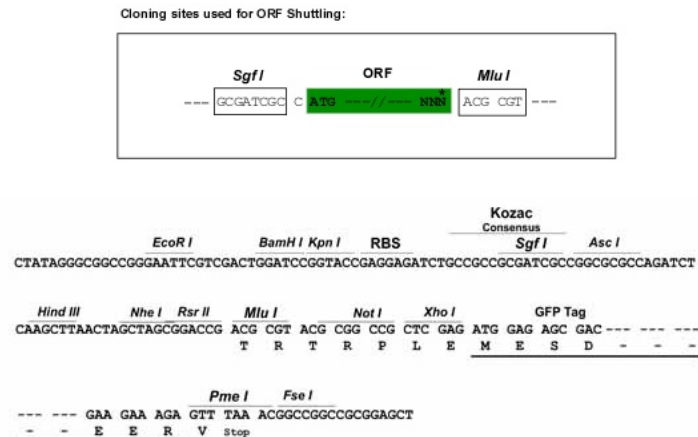
Protein Sequence: >RG211519 representing NM_005600
 Red=Cloning site Green=Tags(s)

MLGFITRPPHRLSLLCPGLRIPQLSVLCAQPRPRAMAISSSSCELPLVAVCQVTSTPDKQQNFKTCAEL
 VREAARLGACLAFLPEAFDFIARDPAETLHLSEPLGGKLL EYTQLARECGLWLSLGGFHERGQDWEQTQ
 KIYNCHVLLNSKGAVVATYRKTHLCDVEIPGQGPMECSNSTMPGPSLESVPSTPAGKIGLAVCYDMRFPE
 LSLALAQAAGAEILTYPSTAFSGITGPAHWEVLLRARAIETQCYVVAAAQCGRHHEKRASYGHSMVVDPWGT
 VVARCSEGPGLCLARIDLNYLRQLRRHLPVFQHRRPDL YGNLGHPLS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005600

ORF Size: 981 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005600.3](#)

RefSeq Size: 1385 bp

RefSeq ORF: 984 bp

Locus ID: 4817

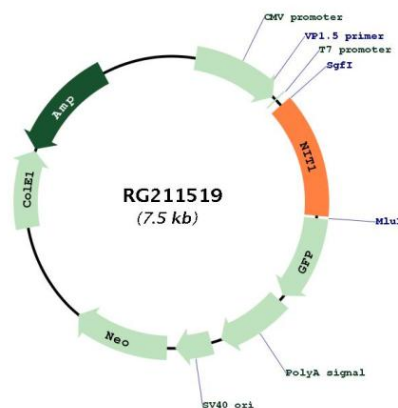
UniProt ID: [Q86X76](#)

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]

Product images:



Circular map for RG211519