

# Product datasheet for RC211519L1

# NIT1 (NM\_005600) Human Tagged Lenti ORF Clone

### **Product data:**

#### **OriGene Technologies, Inc.**

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Product Type:	Expression Plasmids
Product Name:	NIT1 (NM_005600) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	NIT1
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211519).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GCC ATG// NNÑ ACG CGT
	Kozak Consensus EcoR I BamH I RBS Sgf I ORF
	CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C

Mlu I Notl Xhol Myc.Tag NNN ACG CGT ACG CGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG DDK.Tag GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC D L A A N D I L D Y K D D D K V Stop

\* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM\_005600 981 bp

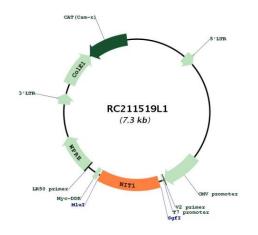


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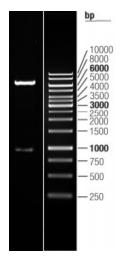
<b>GRIGENE</b> NIT1 (I	NM_005600) Human Tagged Lenti ORF Clone – RC211519L1
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (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. <u>More info</u>
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> <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 005600.1</u>
RefSeq Size:	1385 bp
RefSeq ORF:	984 bp
Locus ID:	4817
UniProt ID:	<u>Q86X76</u>
Cytogenetics:	1q23.3
Domains:	CN_hydrolase
MW:	35.7 kDa
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]

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# **Product images:**



Circular map for RC211519L1



Double digestion of RC211519L1 using Sgfl and Mlul

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