

#### OriGene Technologies, Inc.

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# Product datasheet for MR202441L4V

## Nudt5 (NM\_016918) Mouse Tagged ORF Clone Lentiviral Particle

## **Product data:**

Product Name:Nudt5 (NM_016918) Mouse Tagged ORF Clone Lentiviral ParticleSymbol:Nudt5Mammalian Cell Selection:PuromycinVector:pLenti-C-mGFP-P2A-Puro (PS100093)Tag:mGFPACCN:NM_016918ORF Size:657 bpORF Nucleotide Sequence:The ORF insert of this clone is exactly the same as (MR202441).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 infoOTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.RefSeq:NM 016918.2, NP 058614.1RefSeq ORF:657 bpLocus ID:53893UniProt ID:OpJKX6Cotogenetic:154	Product Type:	Lentiviral Particles
Mammalian Cell Selection:PuromycinVector:pLenti-C-mGFP-P2A-Puro (PS100093)Tag:mGFPACCN:NM_016918ORF Size:657 bpORF Nucleotide Sequence:The ORF insert of this clone is exactly the same as(MR202441).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 infoOTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.RefSeq Size:1590 bpRefSeq ORF:657 bpLocus ID:53893UniProt ID:Q9JKX6	Product Name:	Nudt5 (NM_016918) Mouse Tagged ORF Clone Lentiviral Particle
Selection:PLenti-C-mGFP-P2A-Puro (PS100093)Tag:mGFPACCN:MM_016918ORF Size:657 bpORF NucleotideThe ORF insert of this clone is exactly the same as(MR202441).Sequence: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 infoOTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.RefSeq Size:1590 bpRefSeq ORF:657 bpLocus ID:53893UniProt ID:09JKX6	Symbol:	Nudt5
Tag:mGFPACCN:NM_016918ORF Size:657 bpORF Nucleotide Sequence:The ORF insert of this clone is exactly the same as(MR202441).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 infoOTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.RefSeq Size:NM 016918.2, NP 058614.1RefSeq ORF:5390 bpLocus ID:53893UniProt ID:OylKX6		Puromycin
ACCN:NM_016918ORF Size:657 bpORF Nucleotide Sequence:The ORF insert of this clone is exactly the same as(MR202441).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 infoOTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.RefSeq:NM_016918.2, NP_058614.1RefSeq ORF:1590 bpRefSeq ORF:657 bpLocus ID:03893Universe ID:09JKX6	Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
ORF Size:657 bpORF Nucleotide Sequence:The ORF insert of this clone is exactly the same as(MR202441).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 infoOTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.RefSeq:NM 016918.2, NP 058614.1RefSeq ORF:657 bpLocus ID:53893UniProt ID:OylKX6	Tag:	mGFP
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RefSeq ORF: 657 bp   Locus ID: 53893   UniProt ID: <u>O9JKX6</u>	RefSeq:	<u>NM 016918.2, NP 058614.1</u>
Locus ID: 53893   UniProt ID: Q9JKX6	RefSeq Size:	1590 bp
UniProt ID: <u>Q9JKX6</u>	RefSeq ORF:	657 bp
	Locus ID:	53893
	UniProt ID:	<u>Q9JKX6</u>
	Cytogenetics:	2 A1



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### Nudt5 (NM\_016918) Mouse Tagged ORF Clone Lentiviral Particle – MR202441L4V

Gene Summary:Enzyme that can either act as an ADP-sugar pyrophosphatase in absence of diphosphate or<br/>catalyze the synthesis of ATP in presence of diphosphate (By similarity). In absence of<br/>diphosphate, hydrolyzes with similar activities various modified nucleoside diphosphates<br/>such as ADP-ribose, ADP-mannose, ADP-glucose, 8-oxo-GDP and 8-oxo-dGDP<br/>(PubMed:10722730). Can also hydrolyze other nucleotide sugars with low activity<br/>(PubMed:10722730). In presence of diphosphate, mediates the synthesis of ATP in the<br/>nucleus by catalyzing the conversion of ADP-ribose to ATP and ribose 5-phosphate (By<br/>similarity). Nuclear ATP synthesis takes place when dephosphorylated at Thr-44 (By similarity).<br/>Nuclear ATP generation is required for extensive chromatin remodeling events that are<br/>energy-consuming (By similarity). Does not play a role in U8 snoRNA decapping activity<br/>(PubMed:21070968). Binds U8 snoRNA (PubMed:21070968).[UniProtKB/Swiss-Prot Function]

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