

## Product datasheet for **MR201427L4V**

### **Nudt15 (NM\_172527) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Nudt15 (NM_172527) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Nudt15
Synonyms:	6530403O17; A730068G11Rik; MTH2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_172527
ORF Size:	513 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR201427).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_172527.1</a>
RefSeq Size:	2592 bp
RefSeq ORF:	513 bp
Locus ID:	214254
UniProt ID:	<a href="#">Q8BG93</a>
Cytogenetics:	14 D3



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**Gene Summary:**

May catalyze the hydrolysis of nucleoside triphosphates including dGTP, dTTP, dCTP, their oxidized forms like 8-oxo-dGTP and the prodrug thiopurine derivatives 6-thio-dGTP and 6-thio-GTP (PubMed:12767940). Could also catalyze the hydrolysis of some nucleoside diphosphate derivatives (By similarity). Hydrolyzes oxidized nucleosides triphosphates like 8-oxo-dGTP in vitro, but the specificity and efficiency towards these substrates are low. Therefore, the potential in vivo sanitizing role of this enzyme, that would consist in removing oxidatively damaged forms of nucleosides to prevent their incorporation into DNA, is unclear (PubMed:12767940). Through the hydrolysis of thioguanosine triphosphates may participate in the catabolism of thiopurine drugs (By similarity). May also have a role in DNA synthesis and cell cycle progression by stabilizing PCNA (By similarity).[UniProtKB/Swiss-Prot Function]