

Product datasheet for **RC200204L4V**

NUDT5 (NM_014142) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	NUDT5 (NM_014142) Human Tagged ORF Clone Lentiviral Particle
Symbol:	NUDT5
Synonyms:	hNUDT5; YSA1; YSA1H; YSAH1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_014142
ORF Size:	657 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200204).
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.
RefSeq:	NM_014142.2
RefSeq Size:	1224 bp
RefSeq ORF:	660 bp
Locus ID:	11164
UniProt ID:	Q9UKK9
Cytogenetics:	10p14
Domains:	NUDIX
Protein Pathways:	Purine metabolism



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MW: 24.3 kDa

Gene Summary: This gene belongs to the Nudix (nucleoside diphosphate linked moiety X) hydrolase superfamily. The encoded enzyme catalyzes the hydrolysis of modified nucleoside diphosphates, including ADP-ribose (ADPR) and 8-oxoGua-containing 8-oxo-dADP and 8-oxo-dGDP. Protein-bound ADP ribose can be hazardous to the cell because it can modify some amino acid residues, resulting in the inhibition of ATP-activated potassium channels. 8-oxoGua is an oxidized form of guanine that can potentially alter genetic information by pairing with adenine and cytosine in RNA. Presence of 8-oxoGua in RNA results in formation of abnormal proteins due to translational errors. [provided by RefSeq, Aug 2013]