

Product datasheet for MR228516

Nudt7 (NM_001290180) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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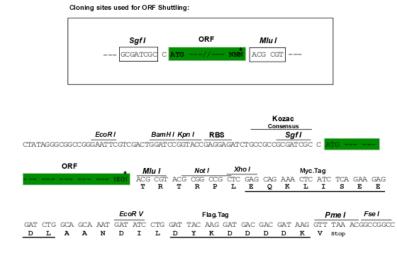
Product Type:	Expression Plasmids
Product Name:	Nudt7 (NM_001290180) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nudt7
Synonyms:	1300007B24Rik; 2210404C19Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228516 representing NM_001290180 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCGCGTCAGAACTATTTGCTTCCCGAAGTCTCCTGCTGCTAGTAAGAGGAAGTACTGCAGGGCTGATG TCGCGACCTTGTGGACTCCCGGAGCCTGTCAGCTGAAAAGGGAACCTGGAGAAGTCTGCTTCCCTGGAGG AAAGAGGGACCCGGTGGACACAGATGACACAGCCACTGCTCTCCGTGAAGCCCAGGAGGAGGTGGGGGCTG CATCCCCACCAAGTGGAGGTGGTCTCTCACCTGGTGCCATACGTATTTGATAATGATGCACTGGTAACCC CCGTAGTGGGTTTTCTAGACCACAACTTCCAGGCCCAACCTAATGCTGATGAAGTGAAGGAAG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>MR228516 representing NM_001290180 Red=Cloning site Green=Tags(s)
	MRVRTICFPKSPAASKRKYCRADVATLWTPGACQLKREPGEVCFPGGKRDPVDTDDTATALREAQEEVGL HPHQVEVVSHLVPYVFDNDALVTPVVGFLDHNFQAQPNADEVKEVFFVPLDYFLHPQVYYQKQITQSGRD FIMHCFEYKDPETGVNYLIQGMTSKLAVLVALIILEQSPAFKIDFDLHDLIPSCERTFLWRYSLSKL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul



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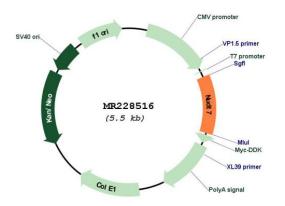


Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001290180
ORF Size:	621 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. <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).

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Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	<u>NM 001290180.1, NP 001277109.1</u>
RefSeq Size:	945 bp
RefSeq ORF:	624 bp
Locus ID:	67528
UniProt ID:	<u>Q99P30</u>
Cytogenetics:	8 E1
MW:	24 kDa
Gene Summary:	Coenzyme A diphosphatase which mediates the cleavage of CoA, CoA esters and oxidized CoA with similar efficiencies, yielding 3',5'-ADP and the corresponding 4'-phosphopantetheine derivative as products. CoA into 3',5'-ADP and 4'-phosphopantetheine. Has no activity toward NDP-sugars, CDP-alcohols, (deoxy)nucleoside 5'-triphosphates, nucleoside 5'-di or monophosphates, diadenosine polyphosphates, NAD, NADH, NADP, NADPH or thymidine-5'- monophospho-p-nitrophenyl ester. May be required to eliminate oxidized CoA from

monophospho-p-nitrophenyl ester. May be required to eliminate oxidized CoA from peroxisomes, or regulate CoA and acyl-CoA levels in this organelle in response to metabolic demand. Does not play a role in U8 snoRNA decapping activity. Binds U8 snoRNA. [UniProtKB/Swiss-Prot Function]

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