

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RC202638L3V

SDOS (NUDT16L1) (NM_032349) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	SDOS (NUDT16L1) (NM_032349) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SDOS
Synonyms:	SDOS; TIRR
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_032349
ORF Size:	633 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202638).
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.
RefSeq:	<u>NM 032349.2</u>
RefSeq Size:	1367 bp
RefSeq ORF:	636 bp
Locus ID:	84309
UniProt ID:	<u>Q9BRJ7</u>
Cytogenetics:	16p13.3
MW:	23.3 kDa



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

SDOS (NUDT16L1) (NM_032349) Human Tagged ORF Clone Lentiviral Particle – RC202638L3V

Gene Summary:Key regulator of TP53BP1 required to stabilize TP53BP1 and regulate its recruitment to
chromatin (PubMed:28241136). In absence of DNA damage, interacts with the tandem Tudor-
like domain of TP53BP1, masking the region that binds histone H4 dimethylated at 'Lys-20'
(H4K20me2), thereby preventing TP53BP1 recruitment to chromatin and maintaining
TP53BP1 localization to the nucleus (PubMed:28241136). Following DNA damage, ATM-
induced phosphorylation of TP53BP1 and subsequent recruitment of RIF1 leads to dissociate
NUDT16L1/TIRR from TP53BP1, unmasking the tandem Tudor-like domain and allowing
recruitment of TP53BP1 to DNA double strand breaks (DSBs) (PubMed:28241136). Binds U8
snoRNA (PubMed:18820299).[UniProtKB/Swiss-Prot Function]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US