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Product datasheet for RC221517L1V

NSD1 (NM_022455) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	NSD1 (NM_022455) Human Tagged ORF Clone Lentiviral Particle
Symbol:	NSD1
Synonyms:	ARA267; KMT3B; SOTOS; SOTOS1; STO
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_022455
ORF Size:	8088 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221517).
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_022455.3, NP_071900.2
RefSeq Size:	8458 bp
RefSeq ORF:	8091 bp
Locus ID:	64324
UniProt ID:	Q96L73
Cytogenetics:	5q35.3
Domains:	PWWP, SET, PHD, AWS
Protein Families:	Druggable Genome

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Protein Pathways: Lysine degradation

MW: 296.5 kDa

Gene Summary: This gene encodes a protein containing a SET domain, 2 LXXLL motifs, 3 nuclear translocation signals (NLSs), 4 plant homeodomain (PHD) finger regions, and a proline-rich region. The encoded protein enhances androgen receptor (AR) transactivation, and this enhancement can be increased further in the presence of other androgen receptor associated coregulators. This protein may act as a nucleus-localized, basic transcriptional factor and also as a bifunctional transcriptional regulator. Mutations of this gene have been associated with Sotos syndrome and Weaver syndrome. One version of childhood acute myeloid leukemia is the result of a cryptic translocation with the breakpoints occurring within nuclear receptor-binding Su-var, enhancer of zeste, and trithorax domain protein 1 on chromosome 5 and nucleoporin, 98-kd on chromosome 11. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Sep 2018]