

Product datasheet for **RC212815L4V**

NANOS2 (NM_001029861) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	NANOS2 (NM_001029861) Human Tagged ORF Clone Lentiviral Particle
Symbol:	NANOS2
Synonyms:	NOS2; ZC2HC12B
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001029861
ORF Size:	414 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC212815).
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_001029861.1
RefSeq Size:	1577 bp
RefSeq ORF:	417 bp
Locus ID:	339345
UniProt ID:	P60321
Cytogenetics:	19q13.32
MW:	15.1 kDa



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Gene Summary:

Plays a key role in the sexual differentiation of germ cells by promoting the male fate but suppressing the female fate. Represses the female fate pathways by suppressing meiosis, which in turn results in the promotion of the male fate. Maintains the suppression of meiosis by preventing STRA8 expression, which is required for premeiotic DNA replication, after CYP26B1 is decreased. Regulates the localization of the CCR4-NOT deadenylation complex to P-bodies and plays a role in recruiting the complex to trigger the degradation of mRNAs involved in meiosis. Required for the maintenance of the spermatogonial stem cell population. Not essential for the assembly of P-bodies but is required for the maintenance of their normal state (By similarity).[UniProtKB/Swiss-Prot Function]