

## Product datasheet for **MR206911L4V**

### Smyd2 (NM\_026796) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Smyd2 (NM_026796) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Smyd2
Synonyms:	1110020E07Rik; 4930402C15; KMT3C; Zmynd14
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_026796
ORF Size:	1302 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR206911).
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. <a href="#">More info</a>
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:	<a href="#">NM_026796.1</a>
RefSeq Size:	1619 bp
RefSeq ORF:	1302 bp
Locus ID:	226830
UniProt ID:	<a href="#">Q8R5A0</a>
Cytogenetics:	1 H6



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**Gene Summary:**

Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins, including p53/TP53 and RB1. Specifically methylates histone H3 'Lys-4' (H3K4me) and dimethylates histone H3 'Lys-36' (H3K36me<sub>2</sub>). Shows even higher methyltransferase activity on p53/TP53. Monomethylates 'Lys-370' of p53/TP53, leading to decreased DNA-binding activity and subsequent transcriptional regulation activity of p53/TP53. Monomethylates RB1 at 'Lys-860'. [UniProtKB/Swiss-Prot Function]