

Product datasheet for **RC203678L4V**

C14orf169 (NM_024644) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	C14orf169 (NM_024644) Human Tagged ORF Clone Lentiviral Particle
Symbol:	C14orf169
Synonyms:	C14orf169; hsNO66; JMJD9; MAPJD; NO66; ROX; URLC2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_024644
ORF Size:	1923 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203678).
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_024644.2
RefSeq Size:	2463 bp
RefSeq ORF:	1926 bp
Locus ID:	79697
UniProt ID:	Q9H6W3
Cytogenetics:	14q24.3
Protein Families:	Druggable Genome
MW:	71.1 kDa



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Gene Summary:

Oxygenase that can act as both a histone lysine demethylase and a ribosomal histidine hydroxylase. Specifically demethylates 'Lys-4' (H3K4me) and 'Lys-36' (H3K36me) of histone H3, thereby playing a central role in histone code. Preferentially demethylates trimethylated H3 'Lys-4' (H3K4me3) and monomethylated H3 'Lys-4' (H3K4me1) residues, while it has weaker activity for dimethylated H3 'Lys-36' (H3K36me2). Also catalyzes the hydroxylation of 60S ribosomal protein L8 on 'His-216'. Acts as a regulator of osteoblast differentiation via its interaction with SP7/OSX by demethylating H3K4me and H3K36me, thereby inhibiting SP7/OSX-mediated promoter activation (By similarity). May also play a role in ribosome biogenesis and in the replication or remodeling of certain heterochromatic region. Participates in MYC-induced transcriptional activation.[UniProtKB/Swiss-Prot Function]