

Product datasheet for **MR216848L3V**

Wdr4 (NM_021322) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Wdr4 (NM_021322) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Wdr4
Synonyms:	AI415180; AI448349; D530049K22Rik; Wh
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_021322
ORF Size:	1368 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR216848).
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_021322.2 , NP_067297.2
RefSeq Size:	3906 bp
RefSeq ORF:	1371 bp



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Locus ID: 57773

UniProt ID: [Q9EP82](#)

Cytogenetics: 17 B1

Gene Summary: Non-catalytic component of a methyltransferase complex required for the formation of N(7)-methylguanine in a subset of RNA species, such as tRNAs, mRNAs and microRNAs (miRNAs) (PubMed:29983320). In the methyltransferase complex, it is required to stabilize and induce conformational changes of the catalytic subunit (By similarity). Required for the formation of N(7)-methylguanine at position 46 (m7G46) in tRNA (PubMed:29983320). Also required for the formation of N(7)-methylguanine at internal sites in a subset of mRNAs (By similarity). Also required for methylation of a specific subset of miRNAs, such as let-7 (By similarity). Acts as a regulator of embryonic stem cell self-renewal and differentiation (PubMed:29983320). Independently of METTL1, also plays a role in genome stability: localizes at the DNA replication site and regulates endonucleolytic activities of FEN1 (PubMed:29574139). [UniProtKB/Swiss-Prot Function]