

Product datasheet for **MR218907L4V**

Aplf (NM_001170489) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Aplf (NM_001170489) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Aplf
Synonyms:	2010301N04Rik; AI452191
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001170489
ORF Size:	1497 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR218907).
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_001170489.1 , NP_001163960.1
RefSeq Size:	3184 bp
RefSeq ORF:	1500 bp
Locus ID:	72103
UniProt ID:	Q9D842
Cytogenetics:	6 D1



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Gene Summary:

Nuclease involved in single-strand and double-strand DNA break repair. Recruited to sites of DNA damage through interaction with poly(ADP-ribose), a polymeric post-translational modification synthesized transiently at sites of chromosomal damage to accelerate DNA strand break repair reactions. Displays apurinic-apyrimidinic (AP) endonuclease and 3'-5' exonuclease activities in vitro. Also able to introduce nicks at hydroxyuracil and other types of pyrimidine base damage. Together with PARP3, promotes the retention of the LIG4-XRCC4 complex on chromatin and accelerate DNA ligation during non-homologous end-joining (NHEJ).[UniProtKB/Swiss-Prot Function]