

Product datasheet for **MR218857L4V**

Polk (NM_012048) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Polk (NM_012048) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Polk
Synonyms:	Dinb1; DINP
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_012048
ORF Size:	2556 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR218857).
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_012048.2
RefSeq Size:	4226 bp
RefSeq ORF:	2559 bp
Locus ID:	27015
UniProt ID:	Q9QUG2
Cytogenetics:	13 D1



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Gene Summary:

DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls (PubMed:12432099). Depending on the context, it inserts the correct base, but causes frequent base transitions, transversions and frameshifts. Lacks 3'-5' proofreading exonuclease activity. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but does not have lyase activity (By similarity).[UniProtKB/Swiss-Prot Function]