

Product datasheet for **MR201161L4V**

Rfk (NM_019437) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Rfk (NM_019437) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Rfk
Synonyms:	0610038L10Rik; AF031381; KOI-4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_019437
ORF Size:	465 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR201161).
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_019437.3 , NP_062310.1
RefSeq Size:	2482 bp
RefSeq ORF:	468 bp
Locus ID:	54391
UniProt ID:	Q8CFV9
Cytogenetics:	19 B



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Gene Summary:

Catalyzes the phosphorylation of riboflavin (vitamin B2) to form flavin-mononucleotide (FMN), hence rate-limiting enzyme in the synthesis of FAD. Essential for TNF-induced reactive oxygen species (ROS) production. Through its interaction with both TNFRSF1A and CYBA, physically and functionally couples TNFRSF1A to NADPH oxidase. TNF-activation of Rfk may enhance the incorporation of FAD in NADPH oxidase, a critical step for the assembly and activation of NADPH oxidase (By similarity).[UniProtKB/Swiss-Prot Function]