

Product datasheet for **MR207671L4V**

Kmo (NM_133809) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Kmo (NM_133809) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Kmo
Synonyms:	AI046660
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_133809
ORF Size:	1437 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR207671).
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_133809.1 , NP_598570.1
RefSeq Size:	2512 bp
RefSeq ORF:	1440 bp
Locus ID:	98256
UniProt ID:	Q91WN4
Cytogenetics:	1 H3



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Gene Summary:

Catalyzes the hydroxylation of L-kynurenine (L-Kyn) to form 3-hydroxy-L-kynurenine (L-3OHKyn). Required for synthesis of quinolinic acid, a neurotoxic NMDA receptor antagonist and potential endogenous inhibitor of NMDA receptor signaling in axonal targeting, synaptogenesis and apoptosis during brain development. Quinolinic acid may also affect NMDA receptor signaling in pancreatic beta cells, osteoblasts, myocardial cells, and the gastrointestinal tract.[UniProtKB/Swiss-Prot Function]