

OriGene Technologies, Inc.

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Product datasheet for MR207555L4V

Oasl2 (NM_011854) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Oasl2 (NM_011854) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Oasl2
Synonyms:	M1204; Mmu-OASL; Oasl
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_011854
ORF Size:	1524 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR207555).
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. <u>More info</u>
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:	<u>NM 011854.2, NP 035984.2</u>
RefSeq Size:	3136 bp
RefSeq ORF:	1527 bp
Locus ID:	23962
UniProt ID:	<u>Q9Z2F2</u>
Cytogenetics:	5 F



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Gene Summary:Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular
innate antiviral response. Synthesizes oligomers of 2'-5'-oligoadenylates (2-5A) from ATP
which then bind to the inactive monomeric form of ribonuclease L (RNase L) leading to its
dimerization and subsequent activation. Activation of RNase L leads to degradation of cellular
as well as viral RNA, resulting in the inhibition of protein synthesis, thus terminating viral
replication. Can mediate the antiviral effect via the classical RNase L-dependent pathway or
an alternative antiviral pathway independent of RNase L.[UniProtKB/Swiss-Prot Function]

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