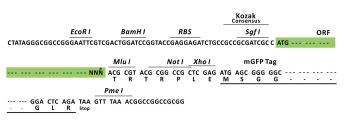


Product datasheet for RC224706L2

OAS1 (NM_001032409) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: OAS1 (NM 001032409) Human Tagged Lenti ORF Clone Tag: mGFP Symbol: OAS1 Synonyms: E18/E16; IFI-4; OIAS; OIASI Mammalian Cell None Selection: Vector: pLenti-C-mGFP (PS100071) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(RC224706). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I --- GCG ATC GC C ATG --- //--- NNN ACG CGT ---



* The last codon before the Stop codon of the ORF.



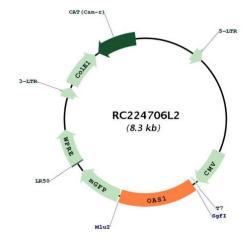
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Plasmid Map:



ACCN:	NM_001032409
ORF Size:	1242 bp
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.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 001032409.1</u>
RefSeq Size:	1575 bp
RefSeq ORF:	1245 bp

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	OAS1 (NM_001032409) Human Tagged Lenti ORF Clone – RC224706L2
Locus ID:	4938
UniProt ID:	<u>P00973</u>
Cytogenetics:	12q24.13
Protein Families:	Druggable Genome
MW:	47.2 kDa
Gene Summary:	This gene is induced by interferons and encodes a protein that synthesizes 2',5'- oligoadenylates (2-5As). This protein activates latent RNase L, which results in viral RNA degradation and the inhibition of viral replication. Alternative splicing results in multiple transcript variants with different enzymatic activities. Polymorphisms in this gene have been associated with susceptibility to viral infection and diabetes mellitus, type 1. A disease- associated allele in a splice acceptor site influences the production of the p46 splice isoform. This gene is located in a cluster of related genes on chromosome 12. [provided by RefSeq, Feb 2016]

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