

Product datasheet for **MR207555**

Oasl2 (NM_011854) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oasl2 (NM_011854) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oasl2
Synonyms:	M1204; Mmu-OASL; Oasl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR207555 representing NM_011854
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGACCCATTCCCCGACCTGTATGCGACCCCTGGGACAGTCTAGACCACTTCCTGGAACACAGCCTTC
 AGCCCCAGAGGGACTGGAAAGAGGAAGGGCAGGATGCCTGGGAGAGAATCGAGAGGTTCTTTCGGGAACA
 GTGCTTCCGTGATGAGCTGCTCCTGGACCAAGAAGTCAGGGTGATTAAGGTGGTGAAGGGAGGCTCCTCG
 GGAAAGGGGACAACGCTGAACACAGATCTGACCAAGACATGATTCTGTTCTTAAGCTGCTTTTCCAGTT
 TCGAAGAGCAGGCGAGAAACCGGAGGTCGTCATCAGCTTCATTAAGAAGAGGCTGATTCATTGTAGCAG
 AAGCCTGGCCTACAACATCATTGTCCTTACCCACAGAGAGGGCAAAGGACCCCTCGCTCCCTCACCCCTA
 AAGTTTCAGTCCCGAAGACTGATGACATTATTTGGATGGATATCCTCCCGGCTTACGATGCTTTGGGAC
 CTATTTCCAGAGACTCAAAACAGCACCAGCAATCTACGAGACTCTGATAAGAAGTAAGGGCTACCTGG
 TGACTTCTACCAAGCTTCACAGAGTTACAGAGACATTTTGTGAAAACCTGCCCAGTTAACTGAAGAAC
 CTCTCCGGTTGGTGAAGTTCTGGTACCTGCAGTGCCTGAGACGTAATATGGAAGAGGTGAGTGTTC
 CCTCAAAATATGCTCTGGAGCTGCTGACCATCTACGCTGGGAGATGGGTACAGAGAGCAGTGATAGCTT
 CAATCTGGATGAAGGTTTCGTAGCCGTGATGGAGCTCCTCGTAACTACCGGACATCTGCATCTACTGG
 ACCAAGTACTACAATTTCCAAAACGAGGTCGTCAGGAACCTTCTGAAGAAACAGCTGAAGGGAGACCGGC
 CCATCATCCTAGACCCAGCTGACCCACCAACAACCTGGGAAGAAGAAAGGGATGGGAACAGGTGGCTGC
 AGAAGCTGCTTTCTGCCTGCTGCAGGTCTGTTGCACTACTGTAGGCCCCAGCGAGCGCTGGAATGTACAG
 CGAGCGAGGGATGTTTCAGGTGAGAGTGAACAAACGGGAACAGTGGATTGGACACTCTGGACAAACCCCT
 ACAGCCCCATCAGAAAGATGAAGGCAGAGATCAGGAGGGAAGAACTTTGGAGGGGAACGCGCATCTC
 CTTCCAGGAGCCCGGAGGGGAGAGACAGCTGCTCAGCAGCAGGAAGACCTAGCGGATTATGGGATATTC
 TCTAAGGTGAACATCCAAGTCTGGAGACCATCCTCCTGAGATCCTGGTCTTTGTGAAGTATCCCGGTG
 GCCAGAGCAAGCCTTTCGCCATCGACCCTGATGATACCATCTTAGATCTGAAAGAGAAGATAGAAGATGC
 TGGAGGCCCTTGTGCGGAGGATCAGGTACTACTGTTGGATGATGAGGAGTTGGAAGATGATGAGAGCCTT
 GAAGAGCTTGAGATCAAAGACTGCGACACCATCATACTCATTAGGGTAATCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:

https://cdn.origene.com/chromatograms/mm9076_e04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_011854

ORF Size: 1524 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. [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.

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:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011854.2](#), [NP_035984.2](#)

RefSeq Size: 3136 bp

RefSeq ORF: 1527 bp

Locus ID: 23962

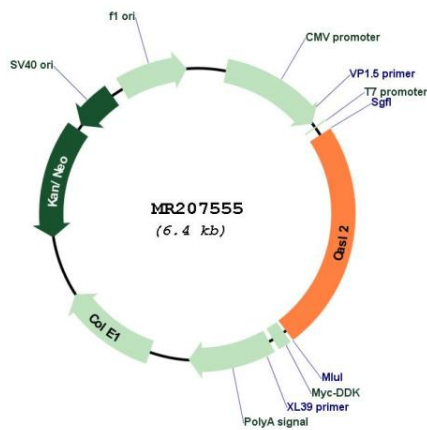
UniProt ID: [Q9Z2F2](#)

Cytogenetics: 5 F

MW: 59.2 kDa

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]

Product images:



Circular map for MR207555