

Product datasheet for **MC202836**

Oasl2 (NM_011854) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oasl2 (NM_011854) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Oasl2
Synonyms:	M1204; Mmu-OASL; Oasl
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC034361 sequence for NM_011854
 CCAGTTTCTCCAAGGAGGGAGGGGAGAGCGCTTTTCTTCTTCCATGCAACTCTCCATCCCACTGTCTC
 CTCCAGAGAACGCTGCAGGAAGCTTCTCCCATCAGAGCTGAGCAGAAGCTCAGAGGATTTATCTAGAGGA
 CAGGCTGGCCAGCTGAAATGGACCCATTTCCCGACCTGTATGCGACCCCTGGGGACAGTCTAGACCACT
 TCCTGGAACACAGCCTTCAGCCCCAGAGGAGTGGAAAGAGGAAGGGCAGGATGCCTGGGAGAGAATCGA
 GAGGTTCTTTCGGGAACAGTGCTTCCGTGATGAGCTGCTCCTGGACCAAGAAGTCAGGGTGATTAAGGTG
 GTGAAGGGAGGCTCCTCGGGAAGGGGACAACGCTGAACCACAGATCTGACCAAGACATGATTCTGTTCT
 TAAGTCGCTTTTCCAGTTTCGAAGAGCAGGCGAGAAACCGGGAGGTCGTCATCAGCTTCATTAAGAAGAG
 GCTGATTCATTGTAGCAGAAGCCTGGCCTACAACATCATTGTCCTTACCCACAGAGAGGGCAAAAGGACC
 CCTCGCTCCCTCACCTAAAGTTTCAGTCCCGAAGACTGATGACATTATTTGGATGGATATCTCCCGG
 CTTACGATGCTTTGGGACCTATTTCCAGAGACTCAAAACCAGCACCAGCAATCTACGAGACTCTGATAAG
 AAGTAAGGGCTACCCTGGTGACTTCTACCAAGCTTCACAGAGTTACAGAGACATTTTGTAAAACCTCGC
 CCAGTTAACTGAAGAACCTCCTCGGTGGTGAAGTTCTGGTACCTGCAGTGCCTGAGACGTAATATG
 GAAGAGGTGCAGTGTTGCCCTCAAAATATGCTCTGGAGCTGCTGACCATCTACGCTGGGAGATGGGTAC
 AGAGAGCAGTGATAGCTCAATCTGGATGAAGGGTTCGTAGCCGTGATGGAGCTCCTCGTAACTACCGC
 GACATCTGCATCTACTGGACCAAGTACTACAATTTCCAAAACGAGGTCGTCAGGAACTTTCTGAAGAAAC
 AGCTGAAGGGAGACCGGCCATCATCTAGACCCAGCTGACCCCAACCAACCTGGGAAGAAGAAAGGG
 ATGGGAACAGGTGGCTGCAGAAGCTGCTTCTGCCTGCTGCAGGTCTGTTGCACTACTGTAGGCCCCAGC
 GAGCGCTGGAATGTACAGCGAGCGAGGGATGTTCAAGTGAGAGTGAAACAAACGGGAACAGTGGATTGGA
 CACTCTGGACAAACCCCTACAGCCCCATCAGAAAGATGAAGGCAGAGATCAGGAGGGAAAAGAACTTTGG
 AGGGAACTGCGCATCTCCTTCCAGGAGCCCGAGGGGAGAGACAGCTGCTCAGCAGCAGGAAGACCCTA
 GCGGATTATGGGATATTCTAAGGTGAACATCCAAGTCTGGAGACCATTCTCCTGAGATCCTGGTCT
 TTGTGAAGTATCCCGGTGCCAGAGCAAGCCTTTCGCCATCGACCCTGATGATACCATCTTAGATCTGAA
 AGAGAAGATAGAAGATGCTGGAGGCCCTTGTGCGGAGGATCAGGTACTACTGTTGGATGATGAGGAGTTG
 GAAGATGATGAGAGCCTTGAAGAGCTTGAGATCAAGACTGCGACACCATCATACTATTAGGGTAATCG
 ACTAGTCTGGCTGCTTGAAGTCCGTGCTAGCGTCTTACGCTCCCATCTCATCCCTAGACTCTGATGGG
 TTCTTTCTATAGCTTAAATATCAACATCCCCTTCTTGTCTTAAACCCCTCTCCTGTAGCCGGGAGTGG
 TGGTGCATGCCTTATCTCAGCACTTGGAGAATTTCTGAGTTCAAGGCCAGCCTGGTCTATAGAGTGAGT
 TGCAGGACAGCCAGAGCTATACGGAGAAACCCTGTCTCAGATAAACAACAAACAAACAAACCCCTCTCT
 GTGTTTTCCAATAATACAGAATGAAGTTCAAGTTTCTTTTCTAACAGTAAATTAAGCTGAACCCTGCTT
 AGTCCCCGACCCCACTCTAAACACTCACTCATACTGAATGCAGAGTGACACCTTGAGTCACACTGAGA
 GCTGAGTCACACCTGTGTCTTTTTCTCAAACATCCTTCCCCTCAGCCTCTGTTTTCATATTCTGTGA
 GTCAGTGAATCTCAAAGAGCAGACCCAGACTGTGAGATTCCCCACCTCTCCAGAAACCTCTTAGAATGG
 AAAACTAACCAAGCCAGACATTCCAACGAGACTCAGCGATCCCGGACTTAACAAGCCTTTCACATCGTT
 CTGCATGCTCCTGTTTGAACAACTACTATCTGGCCCATGCAGCAGGCCAAATCATCTTGTGTTCCCGC
 CCTCTCCCTTCATCCATGTTAGACTCCCGTGGACGTAATTTATCTCCCTCGTCTAATCAGACTCGATTG
 TTTTAAATGATTTAGGCCTTGTGCTCTAGAATGGTACCAATCCAGTATCAATGTATGACAAGTGCTTGT
 AATAAAGAAGCGAACCGAGAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_011854

Insert Size: 1527 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>BC034361</u> , <u>AAH34361</u>
RefSeq Size:	2568 bp
RefSeq ORF:	1527 bp
Locus ID:	23962
UniProt ID:	<u>Q9Z2F2</u>
Cytogenetics:	5 F
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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).