

Product datasheet for MC218278

Oas1b (BC012877) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Oas1b (BC012877) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Oas1b
 Synonyms: Flv; L1; Mmu-L1; Oas1; Oias-2; Oias2; Wnv
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC012877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGCAGGATCTGAGGAGCATCCCGGCTCGAAGCTTGATAAGTTCATAGAGAATCATCTCCCGGACA
 CCAGTCTCTGTGCTGACCTCAGAGAAGTCATAGATGCCCTGTGTGCTCTCCTGAAGGACAGATTCTCCG
 GGGCCCGTCCGCCGAATGAGGGCTCTAAGGGGTCAAGGGCAAATGCACCGCGCTCAAGGGCAGGTCA
 GACGCTGACCTGGTGGTGTCTTAACAATCTCACCTACTTTGAGGATCAATTAACCAACAGGGAGTGT
 TGATTAAGGAAATTAAGAAACAGCTGTACGAGGTTGAGCATGAGAGACGTTTTGGAGTCAAGTTGAGGT
 CCAGAGTTAAGGAGTCCCAACTCCCGGCTCTGAGCTTCAAGCTGAGCGCCCCGACCTGCTGAAGGAG
 GTGAAGTTTGACGTGCTGCCAGCCTATGATTTACTGGATCATCTTAACATCCTCAAGAAGCCTAACCAAC
 AATTCTACGCCAATCTCATCAGTGGCGTACCCCGCTGGGGAAGGAGGGCAAGTTATTGACCTGCTTTAT
 GGGCTTCGGAAGTACTTCTGAAGTGTGCGCCAAACAGCTGAAGCGCCTCATCCACCTGGTCACGCAC
 TGGTACCAACTGTGAAGGAGAAGCTGGGGACCCGCTGCCCCACAGTATGCCCTGGAGCTGCTCACAG
 TCTATGCCTGGGAGTATGGGAGTCGAGTAACTAAATTAACACAGCCAGGGCTTCGGAACCGCTTGGA
 ACTGGTTACCAAGTACAACAGCTTCAATCTACTGGACAGTGTATTATGACTTTTCGACATCAAGAGGTC
 TCTGAATACCTGCACCAACAGCTCAAAAAAGACAGGCCTGTGATCTTGGACCCCGCTGATCCAACAAGGA
 ATATAGCTGGTTTGAACCCAAAGGACTGGCGGCTCTAGCAGGAGAGGCTGCCGCTGGCTGCAATACCC
 ATGCTTTAAGTACAGGGACGGTTCCCCAGTGTGCTCCTGGGAGGTGCCGACGGAGTTGCAGTGCCAACG
 AAGTATCTCTTTGTCGATTTTCTGGTATTGTTTTGGTCTTTGTTTCATTTCTTTGGGAAGACTT
 CATCTGGATAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



[View online »](#)

ACCN:	BC012877
Insert Size:	1131 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:	<ol style="list-style-type: none"> 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.
RefSeq:	<u>BC012877</u> , <u>AAH12877</u>
RefSeq Size:	1944 bp
RefSeq ORF:	1130 bp
Locus ID:	23961
Cytogenetics:	5 60.64 cM
Gene Summary:	This gene is a member of the 2'-5' oligoA synthetase family, which are clustered on chromosome 5. The encoded protein functions in the interferon-regulated OAS/RNase L system, which mediates RNA decay as part of the innate antiviral immunity pathway. The protein binds double-stranded RNA and oligomerizes ATP, which activate the single-stranded RNA cleavage enzyme RNase L. This protein mediates resistance to flaviviruses such as West Nile virus. The majority of wild mouse strains produce a functional protein and are resistant to flavivirus infection, whereas some inbred mouse strains including the strain of the reference genome, C57BL/6J, contain a premature stop codon that inactivates this gene product. [provided by RefSeq, Jul 2008]