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Product datasheet for MR220810

Oas1b (NM_001083925) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oas1b (NM_001083925) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oas1b
Synonyms:	F; Flv; L; L1; Mmu-L; Mmu-L1; O; Oas1; Oi; Oias-2; Oias2; W; Wnv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR220810 representing NM_001083925
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGGATCTGAGGAGCATCCCGGCCTCGAAGCTTGATAAGTTCATAGAGAACCATCTCCCGGACA
CCAGCTTCTGTGCTGACCTCAGAGAAGTCATAGATGCCCTGTGTGCTCTCCTGAAGGACAGATCCTTCCG
GGGCCCCGTCCGCCGAATGAGGGCCTCTAAAGGGGTCAAGGGCAAAGGCACCACACTCAAGGGCAGGTCA
GACGCTGACCTGGTGGTGTTCCTTAACAATCTCACCAGCTTTGAGGATCAGTTAAACCAACAGGGAGTGT
TGATTAAGGAAATTAAGAAACAGCTGTGCGAGGTTCAGCATGAGAGACGTTGTGGAGTGAAGTTTGAGGT
CCACAGTTTAAGGAGTCCCAACTCCCGGGCTCTGAGCTTCAAGCTGAGCGCCCCCGACCTGCTGAAGGAG
GTGAAGTTTGATGTGCTGCCAGCCTATGATTTACTGGATCATCTTAACATCCTCAAGAAGCCTAACCAAC
AATTCTACGCCAATCTCATCAGTGGGCGTACCCCGCCGGGGAAGGAGGGCAAGTTATCGATCTGCTTTAT
GGGGCTTCGGAAGTACTTCCTGAACTGTCGCCCAACCAAGCTGAAGCGCCTCATCCGCCTGGTCACGCAC
TGGTACCAACTGTGTAAGGAGAAGCTGGGGGACCCGCTGCCCCCACAGTATGCCCTGGAGCTGCTCACAG
TCTATGCCTGGGAGTATGGGAGTCGAGTAACTAAATTCAACACAGCCCAGGGCTTCCGAACCGTCTTGGA
ACTGGTCACCAAGTACAAACAGCTTCGAATCTACTGGACAGTGTATTATGACTTTCGACATCAAGAGGTC
TCTGAATACCTGCACCAACAGCTCAAAAAAGACAGGCCTGTGATCTTGGACCCCGCTGACCCAACAAGGA
ACATAGCTGGTTTGAACCCAAAGGACTGGCGGCGTCTAGCAGGAGAGGCTGCCACCTGGCTGCAATACCC
ATGCTTTAAGTACAGGGACGGTTCCCCAGTGTGCTCCTGGGAGGTGCCGACGGAGGTTGGAGTGCCAATG
AAGTATCTCTTTTGTCGTATTTTCTGGTTATTGTTTTGGTCTTTGTTTCATTTCATCTTTGGGAAGACTT
CATCTGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

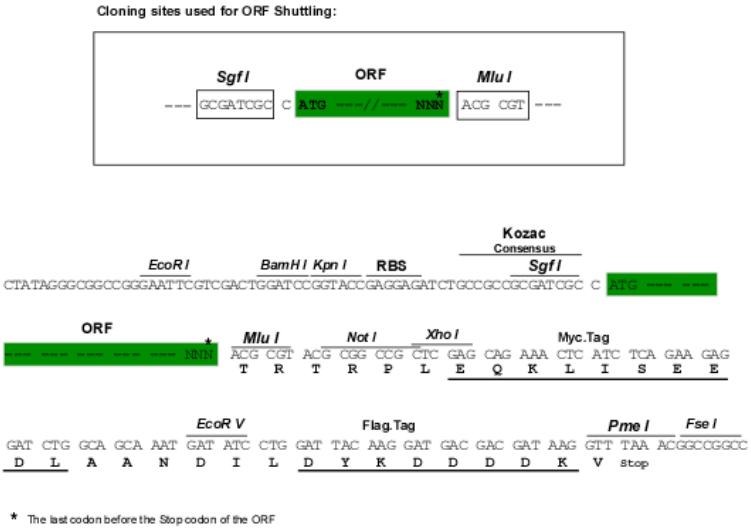
>MR220810 representing NM_001083925
Red=Cloning site Green=Tags(s)

MEQDLRSIPASKLDKFIENHLPDTSFCADLREVIDALCALLKDRSFRGPVRRMRASKGVKGKGTTLKGRS
DADLVVFLNNLTSFEDQLNQQGVLIKEIKKQLCEVQHERRCGVKFEVHSLRSPNSRALSFKLSAPDLLKE
VKFDVLPAYDLLDHLNILKKPNQQFYANLISGRTPPGKEGKLSICFMGLRKYFLNCRPTKLKRLIRLVTH
WYQLCKEKLGDPLPPQYALELLTVYAWEYGSRVTKFNTAQGFRTVLELVTKYKQLRIYWTVYYDFRHQEV
SEYLHQQLKKDRPVILDPADPTRNIAGLNPKDWRRLAGEAATWLQYPCFKYRDGSPVCSWEVPTEVGVPM
KYLFCRIFWLLFWSLFHFIFGKTSSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001083925

ORF Size: 1128 bp

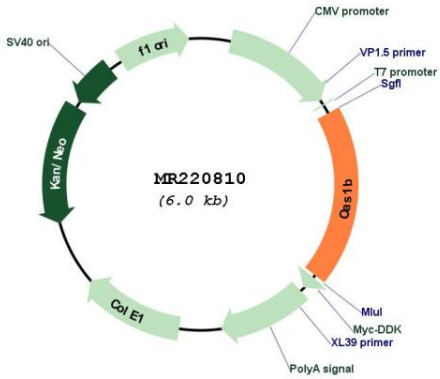
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001083925.1, NP_001077394.1
RefSeq Size:	1837 bp
RefSeq ORF:	1131 bp
Locus ID:	23961
UniProt ID:	Q60856
Cytogenetics:	5 60.64 cM
MW:	44.2 kDa
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]

Product images:



Circular map for MR220810