

Product datasheet for MC202380

Oas1a (NM_145211) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oas1a (NM_145211) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Oas1a
Synonyms:	L3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC057878 sequence for NM_145211

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GACTTAGCATGGAGCACGACTCAGGAGCATCCCAGCCTGGACGCTGGACAAGTTCATAGAGGATTACCT
CCTTCCCGACACCACCTTTGGTGCTGATGTCAAATCAGCCGTCAATGTCGTGTGATTTCCTGAAGGAG
AGATGCTTCCAAGGTGCTGCCCACCCAGTGAGGGTCTCCAAGGTGGTGAAGGGTGGCTCCTCAGGCAAAG
GCACCACACTCAAGGGCAAGTCAGACGCTGACCTGGTGGTGTTCCTTAACAATCTCACCAGCTTTGAGGA
TCAGTTAAACCGACGGGAGAGTTCATCAAGGAAATTAAGAAACAGCTGTACGAGGTTACAGCATGAGAGA
CGTTTTAGAGTCAAGTTTGAGGTCCAGAGTTCATGGTGGCCCAACGCCCGGTCTCTGAGCTTCAAGCTGA
GCGCCCCCATCTGCATCAGGAGGTGGAGTTTGATGTGCTGCCAGCCTTTGATGTCCTGGGTCATGTTAA
TACTTCCAGCAAGCCTGATCCCAGAATCTATGCCATCCTATCGAGGAATGTACCTCCCTGGGGAAGGAT
GGCGAGTTCTCTACCTGCTTCACGGAGCTCCAGCGGAATTCCTGAAGCAGCGCCCAACCAAGCTGAAGA
GTCTCATCCGCTGGTCAAGCACTGGTACCAACTGTGTAAGGAGAAGCTGGGGAAGCCATTGCCTCCACA
GTACGCCCTAGAGTTGCTCACTGTCTTTGCCTGGGAACAAGGGAATGGATGTTATGAGTTCAACACAGCC
CAGGGCTTCCGGACCGTCTTGGAAGTGGTCATCAATTATCAGCATCTTCGAATCTACTGGACAAAGTATT
ATGACTTTCAACACCAGGAGGTCTCCAAATACCTGCACAGACAGCTCAGAAAAGCCAGGCCTGTGATCCT
GGACCCAGCTGACCCAACAGGGAATGTGGCCGGTGGGAACCCAGAGGGCTGGAGGCGGTTGGCTGAAGAG
GCTGATGTGTGGGTATGGTACCCATGTTTTATTAAGGATGGTTCCCGAGTGAGCTCCTGGGATGTGC
CGACGGTGGTTCCTGTACCTTTTGAGCAGGTAGAAGAGAACTGGACATGTATCCTGCTGTGAGCACAGCA
GCACCTGCCAGGAGACTGCTGGTCAGGGGCATTTGCTGCTCTGCTGCAGGCCATGTTGACTCCTGTCCAATCACA
GGGCCCCACCTGGCATCAGACTCCGTGCTTCTGATGCCTGCCAGCCATGTTTGAATCCTGTCCAATCACA
GCCAGCCTTCTCAACAGATTCAAGAGGAGAGGAAAGAACACACGCTTGGTGTCCATCTGTCCACCTGTT
GGAAGGTTCTGTCTGACAAAGTCTGATCAACAATAAACACAGCAGGTGCCGTCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
  
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Restriction Sites:	RsrII-NotI
ACCN:	NM_145211
Insert Size:	1104 bp


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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:	BC057878 , AAH57878
RefSeq Size:	1430 bp
RefSeq ORF:	1104 bp
Locus ID:	246730
UniProt ID:	P11928
Cytogenetics:	5 60.65 cM
Gene Summary:	Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate antiviral response. In addition, it may also play a role in other cellular processes such as apoptosis, cell growth, differentiation and gene regulation. Synthesizes higher 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]