

Product datasheet for **MC223723**

Oas3 (NM_145226) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oas3 (NM_145226) Mouse Untagged Clone
Tag: Tag Free
Symbol: Oas3
Synonyms: Oasl10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC223723 representing NM_145226
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCTGTTCCACACGCCAGCCGGAGCTCTGGATAAGCTGGTGGCCACAACCTGCACCCAGCCCCTG
 AGTTCACAGCAGCCGTACGGGTGCTCTGGGTCGCTAAACATCACCCCTACAGCAGCACAGAGCCCAGG
 GTCACAGAGACCAAGAGTGATAAGGATTGCCAAGGGAGGAGCCTATGCCCGGGGCACAGCTCTCAGAGGT
 GGCACCGATGTCGAAGTCTCATCTTCTCGACTGCTTCCAGAGCTTTGGTGACCAGAAGACCTGCACT
 CAGAGACCCCTGGGTGCCATGCGAATGTTGCTGGAGTCTGGGGGGCCACCCCGGCCTGGCCTGACTTT
 TGAGTTTTCTCAGTCAAAGGCGTCCAGGATCTTACAGTTTCGTCTGGCATCGGCAGACGGAGAACACTGG
 ATAGATGTTAGCCTGGTGCCTTGTATGTCCTAGGACAGCCCGCTCTGGAGTCAAGCCGACACCCA
 ACGTGTACTCCTCCCTCCTTAGCAGCCACTGCCAGGCCGGGAGTACTCAGCCTGCTTCACTGAGCCCCG
 AAAGAAGTTGTGAACACTCGCCAGCCAAGCTTAAGAAGTAACTCCTGCTGGTCAAACACTGGTACCAC
 CAGGTGCAGACACGGGCCGTGAGGGCCACACTGCCCCAGCTACGCCCTAGAGCTGCTTACCATCTTTG
 CCTGGGAGCAGGGCTGTGGGAAGGACAGCTTCAAGCCTGGCCAAAGGGCTCCGACCGTCTGGCCTTGAT
 CCAACACAGCAAGTACCTCTGCATTTCTGGACGAAAAGTATGGCTTCGAGGACCCTGCAGTTGGAGAG
 TTCTTGGGAAGGCAGCTTAAGAGACCCAGGCCGTGATCCTGGATCCAGCTGATCCAAGTGGGACGTGG
 GCAACGGGACAGCCTGGCGCTGGGATGTGCTGGCCAGGAGGCTGAGTCCAGCTTTAGCCAGCAGTGTCT
 CAAGCAGGCCTCAGGAGTCTTGTGACGCTTGGGAGGGGCCGGCCTGCCACGGGCTGGGATCTTGGAT
 TTGGGCCACCCAATCTATCAAGGGCCTAACCAGGCCCTTGAAGACAACAAAGGCCACCTTGTGTTCACT
 CAAAGGAAAGGAGCCAAAACCTTCCAATTCAGCTCCAGGATTTCCAGAAGCAGCCACCAAGATCCCTGC
 TATGCCAAACCAAGTGCATAAAAACCCGCAAGATCCGCAAGAAAGCAGCTCACCCAAAGACTGTCCAG
 GAAGCAGCATTGGATAGTATCTCAAGTCATGTTCCGGATCACCCAGAGCACAGCATCTCACACATGCCTC
 CTGACCGCTCTAGCATCTCCACCGCTGGGTACGGATGAGCCAGATCTGTACAGATCCCAGCAAGGA
 TCTAGACTGCTTCATCCAGGACCACCTTAGGCCGAGTCCCGAGTCCAGCAGCAGGTGAAGCAGGCCATC



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GACGCCATCTTGTGCTGCCTCCGGGAGAAGAGTGTATACAAAGTCTTGAGGGTCAGCAAGGGCGGCTCTT
 TCGGCCGTGGCACAGACCTCAGGGGCAGCTGCGATGTGGAACCTTGTATCTTTTATAAAACCTCGGGGA
 CTTCAAGGGCCAGAAGCCTCACCAGGCAGAGATCCTGCGTGACATGCAGGCCAGCTACGACACTGGTGT
 CAGAACCCCGTGCCTGGACTGAGCTCCAGTTTATTGAACAGAAGCCAAACGCTCTGCAACTCCAGCTGG
 CGTCCACCGACCTCAGCAACCGGGTGGACCTCAGTGTGCTGCCTGCTTTTGTATGCTGTGGGGCCGCTGAA
 GTCCGGCACCAAACCTCAGCCCCAGGTGTACTCCTCGCTCCTCAGCAGCGGCTGCCAGGCTGGGGAGCAC
 GCAGCCTGCTTCGCAGAGCTTCGAAGGAACTTCATAAACACTTGCCTCCCAAACCTAAGACCTGATGC
 TACTGGTCAAACACTGGTACCGCCAGGTTGTCACTCGATATAAAGGAGGAGAGGGCGCAGGTGATGCTCC
 GCCCCAGCCTACGCCCTGGAGCTCCTGACCATCTTTGCCTGGGAACAAGGCTGTGGAGAGCAAAAGTTC
 AGCCTGGCTGAAGGCTGCGGACCATCCTGAGGCTGATCCAACAGCACCAGTCGCTTTGTATCTACTGGA
 CGGTCAACTACAGTGTGACAGGCCCGGCCATCAGAGCACATCTTCTGCCAGCTTCGGAAGCCAGGCC
 TCTAGTCTGGACCCTGCAGATCCACCTGGAACGTGGGCCAGGGCGACTGGAAGCTATTAGCTCAGGAG
 GCAGTGCCTTGGGTACAAGTCTGCCTCAGAGTGGGGATGGGACTCTGGTCCACCCTGGGATGTGA
 CGCCAGCCCTCCTCACCAGACCCTAGCTGAGGACCTGGACAAATTCATCAGTGAATTCCTCAGCCCAA
 CCGCCACTTCTGACTCAAGTGAAGAGACCGTGGACACCATATGTTCTTCTGAAAGAAAAGTCTTC
 CGGAACTTACCATCAAGGTGCTCAAGGTGGTCAAGGGTGGGCTTCTGCCAAAGGCACGGCTCTACAAG
 GACGCTCAGATGCCGACCTGGTGGTGTCTCAGCTGCTCCGCCAGTCTCTGAGCAAGGCAGCCATCG
 GGCAGAGATCATCTCGGAGATCCAGGCTCATCTGGAGGCGTGTGACAGATGCACAGCTTCGATGTCAAG
 TTTGAGGTCTCCAAGAGGAAGAACCCCGAGTGTCTCAGCTTACGCTGACATCCAGACGCTGCTGGACC
 AAAGCGTGGACTTTGACGTCTGCCAGCCTTTGATGCTCTCGGCCAGTGGGTCGGCTCTCGGCTGA
 TCCCGGGTCTACACAGACCTCATCCACAGCTGCAGTAATGCAGGAGAGTTCTCTACCTGCTTACAGAG
 CTGCAGAGGGACTTCATTACCTCCCGTCCCAAACTCAAGAGCCTGATCCGGCTGGTGAATACTGGT
 ACCAACAGTGAACAAGACCATCAAGGGGAAGGGTTCTTGCCTCCCGCAGCAGGGCTGGAGCTCCTAAC
 TGTGTACGCTGGGAGCAAGGTGGCCAGAATCCCAAGTTCAACATGGCCGAGGGCTTCCGCACTGTTCTG
 GAGCTGATTGTCCAGTACCGGCAGCTCTGCGTCTATTGGACCATCAACTACAGCGCAGAAGACAAGACCA
 TCGGTGACTTCTGAAGATGCAGCTTCGGAAGCCAGGCTGTATCCTGGACCCAGCTGACCCGACAGG
 CAACCTGGGCCACAACGCTCGCTGGGATCTGCTTGCCAAGGAGGCTACCGTGTACGCATCTGCCCTGTGC
 TCGTGGACAGGGATGGCAATCCATCAAGCCATGGCCGGTAAAGGCCGCTGTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_145226
- Insert Size:** 3417 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.

RefSeq: [NM_145226.2](#), [NP_660261.1](#)

RefSeq Size: 4718 bp

RefSeq ORF: 3417 bp

Locus ID: 246727

UniProt ID: [Q8VI93](#)

Cytogenetics: 5 60.64 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 preferentially dimers 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]