OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC217197

Cgas (NM_173386) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cgas (NM_173386) Mouse Untagged Clone
Symbol:	Cgas
Synonyms:	E330016A19Rik; Mb21d1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC217197 representing NM_173386
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGATCCGCGTAGAAGGACGACGGCGCCACGCGCTAAGAAGCCGTCCGCGAAGCGCGCCCCGACGC
AGCCCAGCAGGACCAGGGCCCACGCGGAAAGCTGCGGCCCGCAAAGGGGGGCTCGATCGCGGCGGGCGGA
GCGTGACGGGGACACCACGGAGAAGCCACGTGCCCCAGGGCCCCGAGTGCATCCAGCAAGGGCCACTGAG
CTCACCAAAGATGCACAGCCCTCGGCCATGGACGCGGCAGGAGCCACCGCGCGGCCTGCCGTCCGGGTGC
CCCAGCAGCAGGCCATCCTGGATCCGGAGCTGCCCGCCGTACGGGAGCCCCAGCCGCCCGCGGATCCCGA
GGCGCGGAAAGTCGTAAGGGGACCTAGCCACAGAAGGGGCGCGCGCTCCACCGGGCAGCCCAGAGCGCCG
CGAGGGTCCAGGAAGGAACCGGACAAGCTAAAGAAGGTGCTGGACAAATTGAGATTGAAACGCAAAGATA
TCTCGGAGGCGGCCGAGACGGTGAATAAAGTTGTGGAACGCCTGCTGCGCAGAATGCAGAAACGGGAGTC
GGAGTTCAAAGGTGTGGAGCAGCTGAACACTGGCAGCTACTATGAACATGTGAAGATTTCTGCTCCTAAT
GAATTTGATGTTATGTTTAAACTGGAAGTCCCCAGGATTGAGCTACAAGAATATTATGAAACAGGTGCTT
TCTATCTTGTGAAATTCAAAAGAATTCCACGAGGAAATCCGCTGAGTCATTTCTTAGAAGGGGAAGTATT
ATCAGCTACCAAGATGCTGTCAAAGTTTAGGAAAATCATTAAAGAAGAAGTTAAAGAAATCAAAGATATA
GATGTCAGTGTGGAGAAGGAAAAACCAGGAAGCCCTGCTGTAACACTTCTTATCAGGAACCCTGAAGAAA
TCTCTGTGGATATAATTCTGGCTTTGGAGTCAAAAGGCAGCTGGCCTATTAGTACCAAAGAAGGACTACC
TATTCAAGGCTGGCTGGGCACAAAAGTGAGGACCAATCTAAGACGAGAGCCGTTTTATCTCGTACCCAAG
AATGCAAAGGATGGAAATAGTTTTCAAGGAGAGACCTGGCGCCTCTCTTTCTCTCACACTGAAAAGTACA
TTTTGAATAATCACGGGATAGAGAAAACATGCTGTGAATCTTCCGGAGCAAAATGCTGCAGAAAAGAATG
TTTAAAATTAATGAAATACCTTTTGGAACAGTTGAAAAAAGAGTTTCAAGAGCTGGATGCATTCTGTTCC
TACCATGTGAAAACTGCCATCTTTCACATGTGGACCCAGGACCCGCAGGACAGTCAGTGGGACCCCAGGA
ACCTCAGCTCCTGCTTCGATAAGTTGTTAGCATTCTTTCTTGAGTGCCTCAGGACAGAGAAACTGGATCA
TTATTTTATTCCAAAGTTCAATCTATTCTCTCAAGAACTAATTGACCGAAAAAGTAAAGAATTTCTATCG
AAGAAAATTGAATATGAAAGAAATAATGGGTTTCCAATTTTTGACAAGCTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_173386

Insert Size: 1524 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_173386.5, NP_775562.2
RefSeq Size:	4090 bp
RefSeq ORF:	1524 bp
Locus ID:	214763
UniProt ID:	Q8C6L5
Cytogenetics:	9 E1
Gene Summary:	The protein encoded by this gene is a DNA binding cytosolic protein that catalyzes the synthesis of cyclic guanosine monophosphate-adenosine monophosphate (cGAMP) after sensing the presence of DNA in the cytoplasm. cGAMP binds another protein, Stimulator of interferon genes (STING), leading to the induction of interferons, and a host immune response. Reduced expression of this gene inhibits interferon induction in the presence of some viral infections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014] Transcript Variant: This variant (1) encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.