

## Product datasheet for **MC204830**

### Gas2 (NM\_008087) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gas2 (NM_008087) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gas2
Synonyms:	Gas-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC053446  
AAAAAAGTAAGCGTTTTACTTCCTCTTGGTCCGTGTGGACTGATGAAATGTAGGAAAGCTGTTTCTGGC  
GTGAGGGCTTAAATCATTTTTCCAAACAGCACCAAGAGGAGCCATCACAGAAGTATGAAGAGGGGCGGT  
GCGGCCACAGCTGCCGCCACCGTGTCTGTTGGTGTGGGGAGCCAGGGCCACAGGACCCGCATCTGGAGG  
AGCCTCAGGGGTACACACCAGAGCGCGGTGCTGCTGAGCTGAGTCGCAGGGAGCAGCTGGCTGGGTGTT  
AGGATGGATAAATGATGTGCACTGCCCTGAGCCCAAGTTTCGACAGCGGACCTGGCCTGTCTGATATGC  
ATCAGTACAGCCAGTGGCTGGCCAGCAGACATGAAGCTAATTTGCTGCCGATGAAAGAAGACTTGGCCTT  
GTGGTTAACCAATCTATTAGGAAAAGAGATAACAGCAGAAACCTTCATGGAGAAGTTGGATAATGGTGCC  
TTGCTCTGTGAGCTTGCAGCAACTGTGCAGGAGAAATTCAAAGAGAGTATGGATGCCAACAGCCTGCCA  
AGACCCTACCACTGAAGAAGATTCTTGCAAAAGCCAGTGCACCCTCGGGCTCCTTTTTTGGCCGAGACAA  
CACAGCCAATTTCTATCCTGGTGCCGAGATTTGGGAGTTGATGAAACATGTCTTTTTGAATCTGAAGGC  
CTGTTTCTGCATAAGCAGCCCCGAGAAGTGTGTCTCTGTTTGTAGAGCTTGGTCGGATTGCAGCCAGGT  
ATGGTGTGGAGCCTCCTGGTCTGATAAAGCTGGAAAAAGAAATGAACAAGAAGAGACACTTTCTGCCCC  
ATCTCCTTCGCCTTCTCCTTCATCAAAGTCTTCAGGAAAAGAGTACTGAAACTTACTGGATGATGCA  
GTA AAAAAGAAATCTCTGAAGATCCTCCCTGCAAGTCCCAACCAAGTTCTGTGTGGAGCGGCTCTCTCAAG  
GTGATACCGAGTGGGAGAGAAGATCCTTTCATCAGGATGCTGACAACAAGCATGTGATGGTCCGAGT  
GGGAGGAGGCTGGGAGACCTTCGCTGGCTATCTGCTCAAGCATGACCCCTGCCGCATGCTGCAGATCTCC  
CGTGTGGACGGCAAGACATCCCCTGTCCAGAGCAAATCCCAACCCTGAAGGACATGAATCCTGATAATT  
ACCTGGTGGTCTCTGCCACCTACAAGGCTAAGAAGGAGATTAATGAAACTGATCTCTGAAAGAGGACTC  
ATGCAATGGCCTGTGTCCATTCTCAGTGTAGTCAATGTAGTTCACATGCTCTGAAAAACCACACAGCAG  
ACAGGAAAATACTCAAATGGTAGCACTATTTATTTGTAATGCATCTGTAGAACTTGCCTATGGAGAAAA  
AAATCTAAACTCAATGAAATCAGACAAATTGTAAGCAAATCATTATTTCTCAATATGTGAACATAGTATA  
TAGAACAAACCTTGTTAGGAACTAAGTTCTAGGTACAGTCAATTGAAGGTGATCATGACTAGGAGACTGTA  
TTTACTTAAATGGGTAGGTCAACAGAAAAGTGCCTGCTGTATGTCTATGAGCTAAAGCACCCAGAAACTT  
TTATAATGGCGGGGATTTTATACCTATTTTTTACAAAGTACAATGTGATAATGTGCTACTAAAATTTGT  
CTGAGAGCACTATATAGTAGAGTTTTCTCAGCCATAATACTTAACTGGAAAGGACACTTCAGAGATGT  
TTACATTAACCTTGAAGATTGCCTTAAAGTTCATCTCTGATCCCTGACCAAACCAACCTCTGGGGTACTT  
TTGGATGTTGCCTGTGCAGCCCCTTAGGAATAGCAGGTACCTTTTACACACAGAGAAGCTGTGTTTAGGA  
TGATCACTTAGTGAAATACACATGCCTAAGCTAGCAGTCATTACATTCTGATGTGTGGACTGCACAGTC  
AAATGTTTCATCAACCTTGTGATTTTGTATTTTCAAGCATTCTTATTTAAAATATGTAGCTTTAGTTA  
GTCCTATTCTGCTATGCTGTCTCATGAAGTAAAATTCATGTAGTGAATTATGTTACAGACTTGTATACCC  
AGGACAGAGCTGTTTTGTATCAATAAACAGCAAGATATTGTCCACTGATTTAAAAAATTTAAAAACAAA  
GTTTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI  
ACCN: NM\_008087  
Insert Size: 945 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC053446](#), [AAH53446](#)

**RefSeq Size:** 2192 bp

**RefSeq ORF:** 945 bp

**Locus ID:** 14453

**UniProt ID:** [P11862](#)

**Cytogenetics:** 7 32.87 cM

**Gene Summary:** May play a role in apoptosis by acting as a cell death substrate for caspases. Is cleaved during apoptosis and the cleaved form induces dramatic rearrangements of the actin cytoskeleton and potent changes in the shape of the affected cells. May play a role in chondrocyte proliferation and differentiation, and in limb myogenesis. May be involved in the regulation of the apoptosis in the interdigital tissues of the developing hindlimb. May be involved in the membrane ruffling process.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (1). Both variants 1 and 2 encode the same isoform (1).