

Product datasheet for **MG204490**

Gas2 (NM_008087) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gas2 (NM_008087) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gas2
Synonyms:	Gas-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204490 representing NM_008087 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGATGTGCACTGCCCTGAGCCCCAAGTTTCGAGCGGACCTGGCCTGTCTGATATGCATCAGTACAGCC
 AGTGGCTGGCCAGCAGACATGAAGCTAATTTGCTGCCGATGAAAGAAGACTTGGCCTTGTGGTTAACCA
 TCTATTAGGGAAAGAGATAACAGCAGAAACCTTCATGGAGAAGTTGGATAATGGTGCCTTGCTCTGTCAG
 CTTGCAGCAACTGTGCAGGAGAAATCAAAGAGAGTATGGATGCCAACAAGCCTGCCAAGACCCTACCAC
 TGAAGAAGATTCTTGCAAAGCCAGTGCACCCTCGGGCTCCTTTTTGCCCCGAGACAACACAGCCAATTT
 CCTATCCTGGTGGCGAGATTTGGGAGTTGATGAAACATGTCTTTTGAATCTGAAGGCCTGGTTCTGCAT
 AAGCAGCCCCGAGAAGTGTGTCTCTGTTTGTAGAGCTTGGTCGGATTGCAGCCAGGTATGGTGTGGAGC
 CTCCTGGTCTGATAAAGCTGAAAAAGAAATTGAACAAGAAGAGACACTTTCTGCCCCATCTCCTTCGCC
 TTCTCCTTCATCAAAGTCTTCAGGAAAGAAGAGTACTGGAACCTTACTGGATGATGCAGTAAAAAGAATC
 TCTGAAGATCCTCCCTGCAAGTGCCCAACCAAGTTCTGTGTGGAGCGGCTCTCTCAAGGTCGATACCGAG
 TGGGAGAGAAGATCCTCTTCATCAGGATGCTGCACAACAAGCATGTGATGGTCCGAGTGGGAGGAGGCTG
 GGAGACCTTCGCTGGCTATCTGCTCAAGCATGACCCCTGCCGCATGCTGCAGATCTCCCGTGTGGACGGC
 AAGACATCCCCTGTCCAGAGCAAATCCCCAACCCCTGAAGGACATGAATCCTGATAATTACCTGGTGGTCT
 CTGCCACCTACAAGGCTAAGAAGGAGATTAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG204490 representing NM_008087
 Red=Cloning site Green=Tags(s)

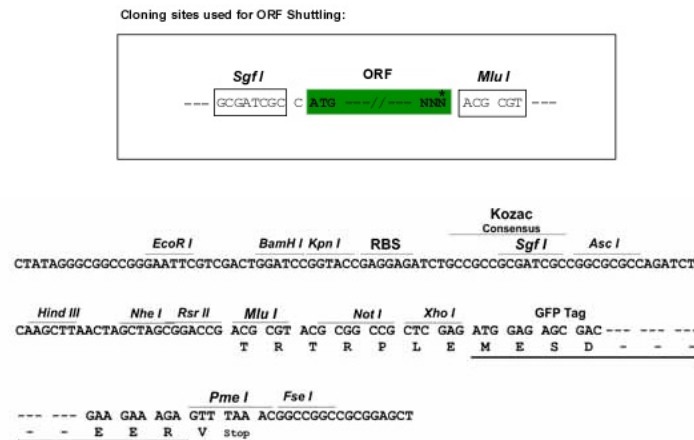
MMCTALSPKVRSGPLSDMHQYSQWLASRHEANLLPMKEDLALWLTNLLGKEITAETFMKLDNGALLCQ
 LAATVQEKFKESMDANKPAKTLPLKKIPCKASAPSGSFARDNTANFLSWCRDLGVDETCLFESEGLVLH
 KQPREVCLLLELGRIAARYGVEPPGLIKLEKEIEQEETLSAPSPSPSSKSSGKKSTGNLLDDAVKRI
 SEDPPCKCPTKFCVERLSQGRYRVGEKILFIRMLHNKHVMVRVGGGWETFAGYLLKHDPICRLQISRVDG
 KTSPVQSKSPTLKDMPDNYLVVSATYKAKKEIK

TRTRPLE – GFP Tag – V

Chromatograms: https://cdn.origene.com/chromatograms/ja1749_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008087

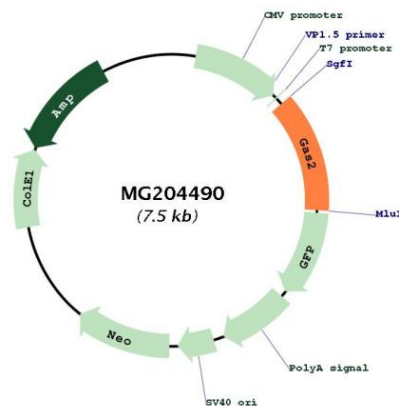
ORF Size: 942 bp

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 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](#)

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:	<ol style="list-style-type: none"> 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:	<u>NM_008087.3</u>
RefSeq Size:	2137 bp
RefSeq ORF:	945 bp
Locus ID:	14453
UniProt ID:	<u>P11862</u>
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]

Product images:



Circular map for MG204490