

## Product datasheet for **RC226863**

### **GAS2 (NM\_001143830) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GAS2 (NM_001143830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GAS2
Synonyms:	GAS-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226863 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCACTGCTCTGAGCCCAAAGGTACGCAGTGGACCTGGCCTCTCTGATATGCATCAGTATAGCCAAT  
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AGAAGATCCCATGCAAAACCAGTGCACCCTCGGGCTCCTTTTTGCCAGAGACAATACAGCAAATTTCTT  
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CAACCCAGAGAAGTGTGTCTCTGTCTGCTAGAGCTTGGCCGGATTGCAGCCAGGTATGGTGTGGAGCCTC  
CTGGTTTGATAAAGCTGGAAAAAGAGATTGAACAAGAAGAAACACTTTCTGCCCTTCTCCTTACCTTC  
TCCTTCATCAAAGTCTTCTGGAAAAAGAGTACAGGAACTTACTGGATGATGCAGTGAACGAATTTCT  
GAAGATCCTCCTTGCAATGCCCAACAAGTTCTGTGTGGAGCGGCTCTCCCAAGGAAGATACCGAGTGG  
GAGAAAAGATCCTCTTCATTAGGATGCTGCACAACAACATGTCATGGTCCGTGTGGGAGGAGGCTGGGA  
AACTTTTGAGGGTATTTGTTGAAACACGACCCCTGCCGAATGCTGCAGATCTCCCGTGTGGATGGCAA  
ACATCCCTATCAAAGCAAATCTCAACTCTAAAGGACATGAATCCAGATAACTACTTGGTGGTCTCTG  
CCAGTTATAAGGCTAAGAAGGAAATTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC226863 protein sequence  
Red=Cloning site Green=Tags(s)

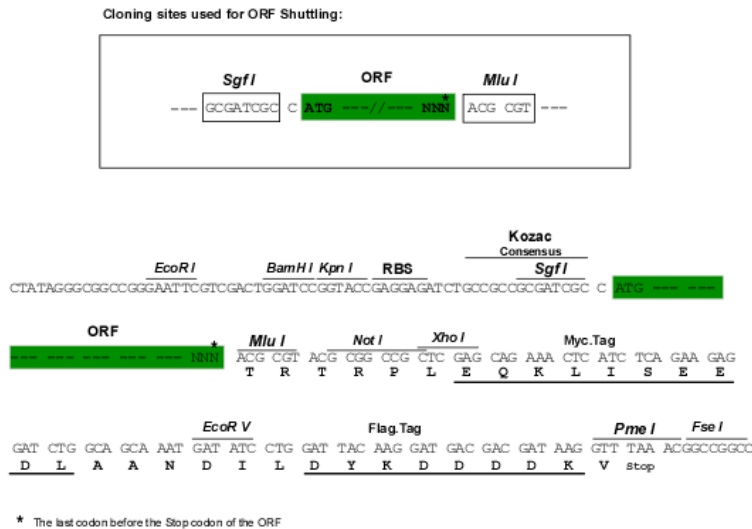
MCTALSPKVRSGPGLSDMHQYSQWLASRHEANLLPMKEDLALWL TNL LGKEITAE TFM EKLDNGALLCQL  
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 QPREVCLLLELGRIAARYGV EPPGLIKLEKEIEQEETLSAPSPSPSSKSSGKKSTGNLLDDAVKRIS  
 EDPPCKCPNKF CVERLSQGRYRVGEKILFIRMLHNKHVMV RVGGGWETFAGYLLKHDP CRMLQISRVDGK  
 TSPIQSKSPTLKDMNPDNYLVVSASYKAKKEIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6550\\_f12.zip](https://cdn.origene.com/chromatograms/mk6550_f12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001143830

**ORF Size:** 939 bp

**OTI Disclaimer:** 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:**

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\\_001143830.2](#)

**RefSeq Size:** 2240 bp

**RefSeq ORF:** 942 bp

**Locus ID:** 2620

**UniProt ID:** [O43903](#)

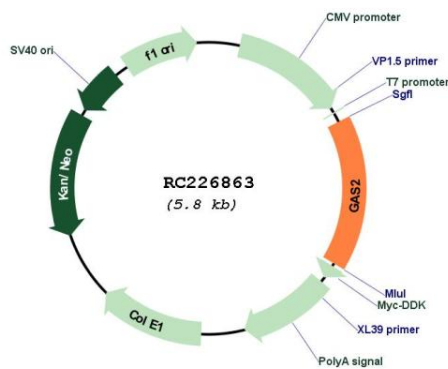
**Cytogenetics:** 11p14.3

**Protein Families:** Druggable Genome

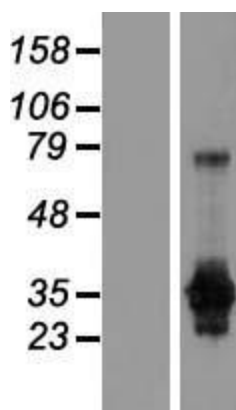
**MW:** 34.9 kDa

**Gene Summary:** The protein encoded by this gene is a caspase-3 substrate that plays a role in regulating microfilament and cell shape changes during apoptosis. It can also modulate cell susceptibility to p53-dependent apoptosis by inhibiting calpain activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2017]

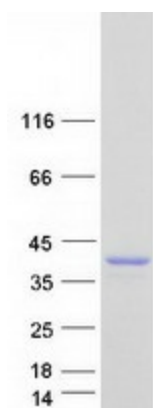
### Product images:



Circular map for RC226863



Western blot validation of overexpression lysate (Cat# [LY428373]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226863 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GAS2 protein (Cat# [TP326863]). The protein was produced from HEK293T cells transfected with GAS2 cDNA clone (Cat# RC226863) using MegaTran 2.0 (Cat# [TT210002]).