

Product datasheet for **RG205912**

GAS2 (NM_177553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAS2 (NM_177553) Human 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:	>RG205912 representing NM_177553 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCACTGCTCTGAGCCCAAAGGTACGCAGTGGACCTGGCCTCTCTGATATGCATCAGTATAGCCAAT
GGCTAGCCAGCAGACATGAAGCTAATTTGCTACCAATGAAAGAAGATCTGGCCTTGTGGTTAACCAATCT
ATTAGGGAAGGAGATTACAGCAGAACTTTTATGGAGAAGTTGGACAATGGTGCCTTGTCTGTCAACTT
GCAGAACTATGCAGGAGAAATCAAGGAGAGCATGGATGCTAACAGCCACAAAGAATCTACCGTTGA
AGAAGATCCCATGCAAAACCAGTGCACCCTCGGGCTCCTTTTTGCCAGAGACAATACAGCAAATTTCTT
ATCCTGGTGCCGAGATTTAGGGGTGGATGAAACGTGTCTATTTGAATCGGAAGGTTTGGTCTCCACAAG
CAACCCAGAGAAGTGTGTCTCTGTCTGCTAGAGCTTGGCCGGATTGCAGCCAGGTATGGTGTGGAGCCTC
CTGGTTTGATAAAGCTGGAAAAAGAGATTGAACAAGAAGAACTTTCTGCCCTTCTCCTTACACCTTC
TCCTTCATCAAAGTCTTCTGGAAAAAGAGTACAGGAACTTACTGGATGATGCAGTGAACGAATTTCT
GAAGATCCTCCTTGCAATGCCCAACAAGTCTGTGTGGAGCGGCTCTCCCAAGGAAGATACCGAGTGG
GAGAAAAGATCCTCTTCATTAGGATGCTGCACAACAACATGTCATGGTCCGTGTGGGAGGAGGCTGGGA
AACTTTTGAGGGTATTTGTTGAAACACGACCCCTGCCGAATGCTGCAGATCTCCCGTGTGGATGGCAA
ACATCCCTATCAAAGCAAATCTCAACTCTAAAGGACATGAATCCAGATAACTACTTGGTGGTCTCTG
CCAGTTATAAGGCTAAGAAGGAAATTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205912 representing NM_177553
Red=Cloning site Green=Tags(s)

MCTALSPKVRSGPGLSDMHQYSQWLASRHEANLLPMKEDLALWL TNL LGKEITAETFMEKLDNGALLCQL
 AETMQEFKESMDANKPTKNLPLKKIPCKTSAPSGSFFARDNTANFLSWCRDLGVDETCLFESEGLVLHK
 QPREVCLLLELGRIAARYGVEPPGLIKLEKEIEQEETLSAPSPSPSSKSSGKKSTGNLLDDAVKRIS
 EDPPCKCPNKFVERLSQGRYRVGEKILFIRMLHNKHVMVRVGGGWETFAGYLLKHDP CRMLQISRVDGK
 TSPIQSKSPTLKDMNPDNYLVVSASYKAKKEIK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177553

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_177553.3](#)

RefSeq Size: 2196 bp

RefSeq ORF: 942 bp

Locus ID: 2620

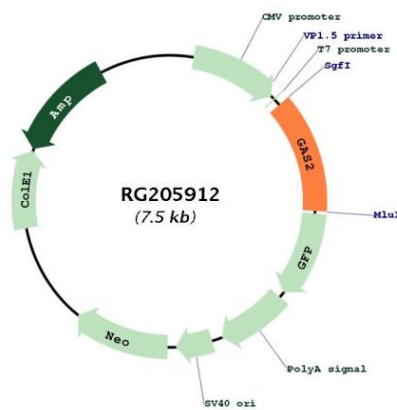
UniProt ID: [O43903](#)

Cytogenetics: 11p14.3

Protein Families: Druggable Genome

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 RG205912