

## Product datasheet for **SC125917**

### **GAS2 (NM\_177553) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GAS2 (NM_177553) Human Untagged Clone
Tag:	Tag Free
Symbol:	GAS2
Synonyms:	GAS-2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene sequence for NM\_177553 edited  
 GAGATTCACAGAGGCAAGGCAGAGAACAAGACCTGTGCTTCTTTACTCCAAACTCTTAGC  
 AGTGTGGACACTGATTAAGTGCAGCTGGGGTCTGATTTGCCAGCCTGTCTTTGATATTG  
 ATCAATGAACTCCTTCTCAAGGAATGCTTTCCTCTAACTGCGGTGAAGGTGGTGGCTCTG  
 GTGGTCTCTCCAACATGGGTGTCTGGGTTTTGACTGCCTAAGAGAAGGTATTACAAGTG  
 GATAAATAATGTGCACTGCTCTGAGCCAAAGGTACGCAGTGGACCTGGCCTCTCTGATA  
 TGCATCAGTATAGCCAATGGCTAGCCAGCAGACATGAAGCTAATTTGCTACCAATGAAAG  
 AAGATCTGGCCTTGTGGTTAACCAATCTATTAGGGAAGGAGATTACAGCAGAAAACCTTTTA  
 TGGAGAAGTTGGACAATGGTGCCTTGTCTGTCAACTTGCAAAAATATGCAGGAGAAAT  
 TCAAGGAGAGCATGGATGCTAACCAAGCCCAAAAGAATCTACCGTTGAAGAAGATCCCAT  
 GCAAAACCAGTGCACCCTCGGGCTCCTTTTTTGGCAGAGACAATACAGCAAATTTCTTAT  
 CCTGGTGCCGAGATTTAGGGGTGGATGAAACGTGTCTATTTGAATCGGAAGGTTTGGTCC  
 TCCACAAGCAACCCAGAGAAGTGTGTCTGTCTGCTAGAGCTTGGCCGATTGCAGCCA  
 GGTATGGTGTGGAGCCTCCTGGTTTGATAAAGCTGGAAAAAGAGATTGAACAAGAAGAAA  
 CACTTCTGCCCTTCTCCTTACCTTCTCCTTATCAAAGTCTTCTGGAAAAAAGAGTA  
 CAGGAAACTTACTGGATGATGCAGTGAACGAATTTCTGAAGATCCTCCTTGCAAATGCC  
 CAAACAAGTTCTGTGTGGAGCGGCTCTCCAAGGAAGATACCGAGTGGGAGAAAAGATCC  
 TCTTCATTAGGATGCTGCACAACAACATGTCTATGGTCCGTGTGGGAGGAGGCTGGGAAA  
 CTTTTGCAGGGTATTTGTTGAAACACGACCCCTGCCGAATGCTGCAGATCTCCCGTGTGG  
 ATGGCAAAACATCCCCTATCCAAGCAAATCTCCAACCTAAAGGACATGAATCCAGATA  
 ACTACTGGTGGTCTCTGCCAGTTATAAGGCTAAGAAGGAAATTAAGTGAACAAATTTGG  
 TCATGACAAGGGGACCCTCATAATGGCCTGTATCCACTTCTCCAGTATAGTCAGTTTAGT  
 TCATATGTTCTGAAAACGTTTTTGGAGAAAGATAGACAGAAAAATGTCATCATATTGAAA  
 AATGTTCAAAGAGTAGCACTATTTATTTTTAATGCTTCTGTAGAATATGACCTATTA  
 GAAAACTAAACTCAAATTTAAATTATCCAAATTTAGGCAAATTATTATTTCTCAATAT  
 GCGAACACAGTATTTAGAACACAATATTAGAAACACAATTCTAACTAAAGATAAAATAAGG  
 AGAAAACATTTAGGATTTGCAGATAAGTCAACAGAAAGTGCCTGCTTTACACTCATGAGT  
 AAAAGCACTCCAGACATTTTTATAATTGCAAGATTTTTATGCTTTTTTTTTTTTTTTTTT  
 TACAAAATGATGATTAGTGTGATAATGTGCTGCAAAAAATATCCAACAGCACTACACATA  
 AGTACAGAGTATTCACAATAGTAATATGTTACTGGAAAGGCCACTCCGAAAAGTTTACA  
 TACTTGGAAAGGCTGCCTTAAAGTATATCTTATCTATGACCAAATATCTGGGGTACT  
 TTTAGAAGTTTTAGTACACCCCTTAGAGAATAGCTTATGAGTTATTTACACATTCCT  
 GAGCACATGGCTGTGTTAGAATGATCTAGTGAATTCATACATGAGCTGACATACGTTG  
 ATACTTTGACGAGTAAATGTACAGTCAAATGTTCAATGATTTTCAATTTTCAAAGCA  
 TTTTCTTATTAATAAATATATCTTTAGTTAATCCTATTTTGCTATGCTTTCTAGTAAAGTA  
 AATTCAGTGTAGCTAATGATGTTACAGACTTACGTATACCCTTGATACCTGGGACAGGG  
 CTGTTTTATACCAATAAACAGCAAAATATTGTCCTTACTCATTCAAGAATTTAAAGGATA  
 AATTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_177553 unedited GTGCGGGTCAGGATATTTGTAATACGACTTATATAGGCGGCCGCGTAATTCGCCATTACG CGCCGGGGGAAGTATTCACAGNAGGCAAGGCAGAGAACAAGACCTGTGCTTCTTTACTCC AAACTCTAGCAGTGTGGACACTGATTAAGTGCAGCTGGGGTCTGATTTGCCAGCCTGT CTTTGATATTGATCAATGAACCTCTCAAGGAATGCTTTCCTAACTGCGGTGAAGG TGGTGGCTCTGGTGGTCTCTCAACATGGGTGTCTGGGTTTTGACTGCCTAAGAGAAGG TATTACAAGTGGATAAATAATGTGCACTGCTCTGAGCCAAAGGTACGCAGTGGACCTGG CCTCTCTGATATGCATCAGTATAGCCAATGGCTAGCCAGCAGACATGAAGCTAATTTGCT ACCAATGAAAGAAGATCTGGCCTTGTGGTTAACCAATCTATTAGGGAAGGAGATTACAGC AGAAACTTTTATGGAGAAGTTGGACAATGGTGCCTTGCTCTGTCAACTTCAGAAACTAT GCAGGAGAAATTCAGGAGAGCATGGATGCTAACAAAGCCACAAAGAATCTACCGTTGAA GAAGATCCCATGCAAAACCAGTGCACCCTCGGGCTCTTTTTTGGCAGAGACAATACAGC AAATTTCTTATCCTGGTCCGAGATTTAGGGTGGATGAAACGTGTCTATTTGAATCGGA AGGTTTGGTCTCCACAAGCAACCCAGAGAAGTGTGTCTGTCTGCTAAAGCTTGCC CGATTGCCACCAGTTGGGGTGGACCCTCTGGTTTGATAAACCTGAAAAATATTTGAC AAAAAAAACATTTGTGCCCTTCTTACTTCTCTTATAAAGTTTTTGGAAAAAATAC AGGA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_177553
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_177553.1</a></u> , <u><a href="#">NP_808221.1</a></u>
<b>RefSeq Size:</b>	2196 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	2620
<b>UniProt ID:</b>	<u><a href="#">O43903</a></u>
<b>Cytogenetics:</b>	11p14.3
<b>Protein Families:</b>	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]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 encode the same isoform (1).