

## Product datasheet for **RG225647**

### Growth Arrest Specific Protein 7 (GAS7) (NM\_001130831) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Growth Arrest Specific Protein 7 (GAS7) (NM_001130831) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GAS7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225647 representing NM_001130831 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCCCCCTCCGCCGGGAGAAGAAAGCCAGACGGTCATCCTTCCACCTGGCTGGCAGAGCTACCTGT  
CGCCTCAGGGCCGGCGGTACTATGTCAACACGACCACCAATGAGACCACCTGGGAACGTCCCAGCAGTTC  
TCCTGGGATTCAGCCAGCCCTGGCTCTCACAGGAGCTCTCTGCCTCCAACAGTGAATGGATACCACGCA  
TCAGGGACCCAGCGCACCCCTCCAGAGACTGCCACATGAGTGTCCGAAAATCCACCGGTGATTTCCAGA  
ACCTGGGATCCTCATCGCCAAGCAAAAAGCAGAGCAAGGAAAACACCATCACAATAAACTGTGTACGTT  
CCCTCACCCAGACACGATGCCGGAACAGCAGTCTGCTGAAACCAACCGAGTGGAGCTACTGCGACTACTTC  
TGGGCTGATAAGAAGGACCCCAAGGCAACGGCACCGTGGCTGGGTTTGAACACTGCTCCAGAAAACAGC  
TGAAGGGCAAACAAATGCAGAAGGAAATGTCAGAATTCATCCGGGAAAGGATAAAGATTGAAGAAGACTA  
TGCGAAGAACTTAGCTAAGCTCTCTCAGAACTCCTTGGCTTACAGGAGGAAGGCTCCTTGGGAGAGGCG  
TGGGCCCAGGTGAAGAAGAGCCTGGCGGACGAAGCAGAAGTTCACCTCAAGTTCTCTGCCAAGCTTCA  
GCGAGGTGGAGAAGCCCCTGATGAACCTCCGTGAGAACTCAAGAAAGACATGAAGAAGTGCACCACCA  
CATTGCCGACCTTCGCAAGCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCCGAAAGCCCTCACA  
GAGCGGCAGAGAGACCTGGAGATGAAGACCCAGCAGCTGGAGATCAAGCTGAGCAACAAGACAGAGGAGG  
ACATCAAGAAGGCGCGGAGAAATCCACACAGGCTGGAGACGACCTCATGCGCTGTGTGGATCTCTACAA  
CCAGGCCCAGTCCAAATGGTTTGAAGAGATGGTGACCACCACATTGGAGCTAGAGCGGCTGGAGGTGGAG  
AGGGTAGAGATGATCCGGCAGCACCTGTGCCAGTACACGCAGCTGCGGCATGAAACAGACATGTTCAACC  
AAAGCACAGTCGAGCCCGTGGATCAGCTGCTTCGAAAAGTGGACCCGGCCAAAGACAGGGAGCTGTGGGT  
CAGAGAGCACAAGACGGGCAACATCCGCCCTGTGGACATGGAGATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225647 representing NM\_001130831  
 Red=Cloning site Green=Tags(s)

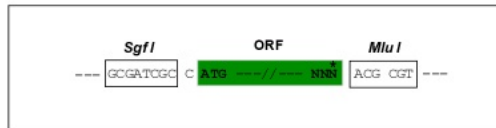
MVPPPPGEEESQTVILPPGWQSYLSPQGRYYVNTTTNETTWERPSSSPGIPASPGSHRSSLPTVNGYHA  
 SGTPAHPPETAHMSVRKSTGDSQNLGSSSPSKKQSKENTITINCVTFFHPDTPMEQQLLKPTWSYCDYF  
 WADKKDPQNGTVAGFELLLQKQLKQKQMQKEMSEFIRERIKIEEDYAKNLAKLSQNSLASQEEGSLGEA  
 WAQVKKSLADEAEVHLKFSAKLHSEVEKPLMNFRENFKKDMKKCDHHIADLRKQLASRYASVEKARKALT  
 ERQRDLEMKTQQLLEIKLSNKTEEDIKKARRKSTQAGDDLRCVDLYNQAQSKWFEEEMVTTTLELERLEVE  
 RVEMIRQHLQCQYTLRHETDMFNQSTVEPVDQLLRKVDPKADRELWVREHKTGNIIRPVDMEI

TRTRPLE - GFP Tag - V

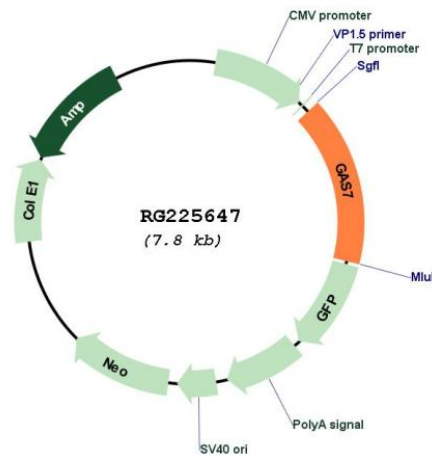
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001130831

<b>ORF Size:</b>	1239 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001130831.2</a>
<b>RefSeq Size:</b>	8024 bp
<b>RefSeq ORF:</b>	1239 bp
<b>Locus ID:</b>	8522
<b>UniProt ID:</b>	<a href="#">O60861</a>
<b>Cytogenetics:</b>	17p13.1
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	Growth arrest-specific 7 is expressed primarily in terminally differentiated brain cells and predominantly in mature cerebellar Purkinje neurons. GAS7 plays a putative role in neuronal development. Several transcript variants encoding proteins which vary in the N-terminus have been described. [provided by RefSeq, Jul 2008]