

Product datasheet for **RG221941**

GAS2L1 (NM_152237) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: GAS2L1 (NM_152237) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: GAS2L1
 Synonyms: GAR22
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG221941 representing NM_152237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGACCCAGTGGCGGGCATCGCGGGCTCGGCGGCCAAGAGCGTGCGGCCATTTTCGCTCCAGTGAGG
 CCTACGTGGAGGCCATGAAGGAGGACCTGGCCGAGTGGCTCAATGCCTTGTACGGCCTGGGTCTCCCGGG
 TGGTGGCGATGGCTTCTGACAGGGCTGGCCACGGGCACGACCCTGTGCCAACATGCCAACGCCGTGACC
 GAGGCTGCCCGTGCATTGGCAGCCGCCCGCCCGCCGAGGTGTGGCCTCCAGGCGCACAGTGTAGTGC
 CTGGCTCCTTCATGGCGCGGACAACTGGCCACCTTCATCGGCTGGTGGCGGTGGAGCTGGGTGTGCC
 GGAGGTGCTCATGTTGAGACTGAGGACCTGGTGTGCGCAAGAACGAGAAGAGCGTGGTGTGTGCCTG
 CTGGAGGTGGCGCGCGTGGGGCACGCCTGGGCCCTGTGGCCCCACGCCTCGTGCAGTTTGGAGCAGGAGA
 TTGAGCGGGAGCTGCGTGTGCACCCCCAGCCCCAACGCCCTGCCGCTGGGGAGGACACCACTGAAAC
 CGCCCCCGCACCAGGGACTCCTGCCCCGCGCCCCCGCATGACACCCAGCGACCTGCGCAACCTCGACGAG
 CTGGTGGGGAGATTCTGGGCCGCTGCACCTGCCCTGACCAGTTTCCCATGATCAAGGTCTCAGAGGGGA
 AGTACCGTGTGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGTGAGGAGCCACGTGATGGTGGCAGT
 GGGTGGTGGCTGGGACACGCTGGAGCATTACCTGGACAAGCACGACCCGTGCCGCTGCTCCTCCACTGCT
 CATCGCCACCCAGCCAGGGTCTGCACCTTTTCTCCACAGAGGGTGTGCCCCACCACCACTCCCGCC
 CTGCTAGCCCAAGTCCCTGGGAGTGAGCGCCGGGGCTCCCGCCTGAGATGACTCCCGTTAGCTTACGAAG
 CACAAAGGAGGGGCCGAGACCCACCCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221941 representing NM_152237
 Red=Cloning site Green=Tags(s)

MADPVAGIAGSAAKSVRPFSSSEAYVEAMKEDLAEWLNALYGLGLPGGGDGLTGLATGTTLCQHANA
 EAARALAAARPARGVAFQAHSSVPGSFMARDNVATFIGWCRVELGVPEVLMFETEDLVLRKNEKSVVLC
 LEVARRGARLGLLAPRLVQFEQEIERELRAAPPAPNAPAAGEDTTETAPAGTPARGPRMTPSDLRNLDE
 LVREILGRCTCPDQFPMIKVSEGGKYRVGDSSLLIFVRVLRSHVMVRVGGGWDLTLEHYLDKHDP
 CRCSSTAHRPPQPRVCTFSPQRVSPPTSPRPASVPGSERRGSRPEMTPVSLRSTKEGPETPPR

TRTRPLE - GFP Tag - V

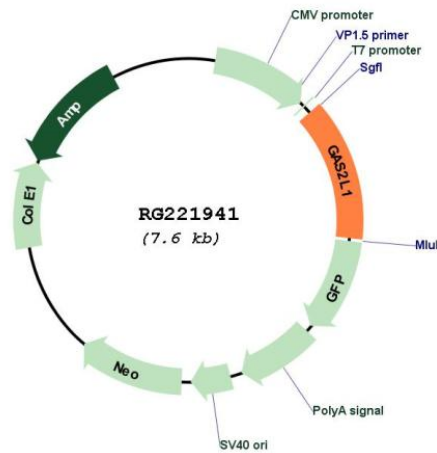
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_152237

ORF Size: 1011 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:	<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:	NM_152237.1 , NP_689423.1
RefSeq Size:	2963 bp
RefSeq ORF:	1013 bp
Locus ID:	10634
Cytogenetics:	22q12.2
Domains:	CH, GAS2
Gene Summary:	This gene encodes a member of the growth arrest-specific 2 protein family. This protein binds components of the cytoskeleton and may be involved in mediating interactions between microtubules and microfilaments. This protein localizes to the proximal end of mature centrioles and links centrosomes to both microtubules and actin. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 9. [provided by RefSeq, May 2018]