

Product datasheet for **RG211855**

GAS2L1 (NM_152236) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAS2L1 (NM_152236) 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)



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ORF Nucleotide Sequence:

>RG211855 representing NM_152236
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGACCCAGTGGCGGGCATCGCGGGTTCGGCGGCCAAGAGCGTGCGGCCATTTTCGCTCCAGTGAGG
 CCTACGTGGAGGCCATGAAGGAGGACCTGGCCGAGTGGCTCAATGCCTTGTACGGCCTGGGTCTCCCGGG
 TGGTGGCGATGGCTTCTGACAGGGCTGGCCACGGGCACGACCCTGTGCCAACATGCCAACGCCGTGACC
 GAGGCTGCCCGTGCATTGGCAGCCGCCCGCCGCGCCGAGGTGTGGCTTCCAGGCGCACAGTGTAGTGC
 CTGGCTCCTTCATGGCGCGGACAACGTGGCCACCTTCATCGGCTGGTGGCGGTGGAGCTGGGTGTGCC
 GGAGGTGCTCATGTTGAGACTGAGGACCTGGTGTGCGCAAGAACGAGAAGAGCGTGGTGTGTGCCTG
 CTGGAGGTGGCGGGCGTGGGACGCGCTGGGCTGTGGCCCCACGCTCGTGCAGTTTGAGCAGGAGA
 TTGAGCGGGAGCTGCGTGTGCACCCCAAGCCCCAAGCCCCCTGCCGCTGGGGAGGACACCACTGAAAC
 CGCCCCGCACAGGGACTCCTGCCCGCGCCCGCATGACACCCAGCGACCTGCGCAACTCGACGAG
 CTGGTGAGGGAGATTCTGGGCGCTGCACCTGCCCTGACCAAGTTCCCATGATCAAGGTCTCAGAGGGGA
 AGTACCGTGTGGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGTGAGGAGCCAGTGTGGTGGCAGT
 GGGTGGTGGCTGGGACACGCTGGAGCATTACCTGGACAAGCACGACCCGTGCCGCTGCTCCTCCACTGCT
 CATCGCCACCCAGCCGAGGGTCTGCACCTTTTCTCCACAGAGGGTGTGCGCCACCACCACTCCCGGCC
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 CAGGCACTGGCCCCGGAGGGAGCGACCCAGCCGGCGGTGACCACAGGCACCCCGCCTCCGAGACG
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 CCCAGTCCAGAGTTGGGCACCACCCGGCCAGCATCTCCGCACACCCCTGCAGCTCGACCCGAGCAGG
 AGCAGCAGCTGTCCGGCGCTGGAAGAGGAGTTCCTGGCCAATGCCCGGCCCTTGAGGCTGTTGCTAG
 CGTGACCCCACTGGACCAGCCCTGACCCAGCTCGGGCCCCGACCCTCCAGCTCCTGACTCTGCCTAT
 TGTTCTCCAGTTCCTCCTTCTCGTCCCTCAGCGTCTGGGTGGCAAATGTGGCCAACCTGGGGACTCTG
 GCCGGACGGCCAATGGGCTGCCTGGGCCCGAAGCCAAGCCCTTCCAGCTCCTCCGATGAAGGCAGCCC
 CTGCCCTGGCATGGGGGGCCACTAGATGCACCTGGGAGCCCCCTGGCTTGCAGTGAACCCCTCGAGGACC
 TGGGCACGGGGTGGATGGACACACAGCCAGACCGTAAACCCCTACGATATCCCCACGCTCGGGGCCCC
 GCCGCCCTCCGGACCCGAGAGCTGGGACATGGCATGCCCTGCACTCAGTACCCCGAGGGCTGAGCC
 AGATTCCTGGATG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211855 representing NM_152236
 Red=Cloning site Green=Tags(s)

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MADPVAGIAGSAAKSVRPFSSSEAYVEAMKEDLAEWLNALYGLGLPGGGDGLTGLATGTTLCQHANA
VTEAARALAAARPARGVAFQAHSSVVPGSFMARDNVATFIGWCRVELGVPEVLMFETEDLVLRKNEK
SVVLCLEVARRGARLGLLAPRLVQFEQEIERELRAAPPAPNAPAAGEDTTETAPAGTPARGPRMTP
SDLRNLDELVREILGRCTCPDQFPMIKVSEKRYRVGDSLLIFVVRVLRSHVMVRVGGGWDTL
EHYLDKHDPCCRSSTARHPPQPRVCTFSPQRVSPTTSPRPASVPGSERRGSRPEMTPVSLRSTKE
GPETPPRPRDQLPPHPRSRRYSGDSDSSASSAQSGPLGTRSDDTGTGPRRERPSRRLTTGTPAS
PRRPPALRSQSRDRLDRGRPRGAPGGRGAQLSVPSPARRARSQSREEQAVLLVRRDRDQHSWV
PRGRGSGGSRSTPQTTPRARSPAAPRLSRVSSPPELGTTPASIFRTPQLQDPQQEQQLFR
RLEEEFLANARALEAVASVTPTGPAPDPARAPDPPAPDSAYCSSSSSSSVLGGKCGQP
GDSGRTANGLPGRSQALSSSSDEGSPCPGMGGPLDAPGSPLACTEPTSRTWARGRMDTQP
DRKPSRIPTPRGPRRPSGPAELGTWHALHSVTPRAEPDSWM
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152236

ORF Size: 2043 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_152236.1](#), [NP_689422.1](#)

RefSeq Size: 2533 bp

RefSeq ORF: 2046 bp

Locus ID: 10634

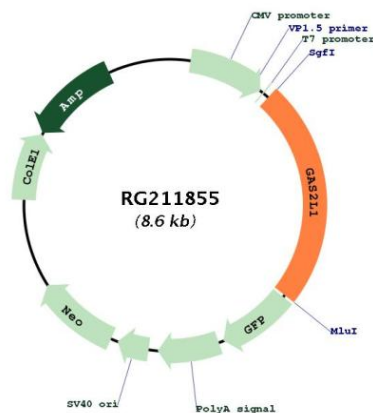
UniProt ID: [Q99501](#)

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]

Product images:



Circular map for RG211855