

Product datasheet for **RG201526**

GAS41 (YEATS4) (NM_006530) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAS41 (YEATS4) (NM_006530) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GAS41
Synonyms:	4930573H17Rik; B230215M10Rik; GAS41; NUBI-1; YAF9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201526 representing NM_006530 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCAAGAGAATGGCCGAATTTGGCCTGACTCCGGCGGGAGAGTAAAGGGTGTACTATCGTTAAAC
CAATAGTTTACGGTAATGTTGCTCGGTATTTGGAAAGAAAAGAGAAGAAGATGGGCACACTCATCAGTG
GACAGTATATGTGAAACCATATAGAAATGAGGATATGTCAGCATATGTGAAGAAAATCCAGTTTAAATTA
CATGAAAGCTATGGCAATCCTTTAAGAGTTGTTACTAAACCTCCATATGAAATTACTGAAACAGGATGGG
GTGAATTCGAAAATATCATCAAAATATTTTCATTGACCCTAATGAAAGACCTGTAAACCCTGTATCATT
GCTAAAGCTGTTCAATCAGACCCAACAGCAATGATGCAACAATTATTGACAACATCTCGTCAGCTAACATTAG
GAAATGATATTTCAAGACCCAACAGCAATGATGCAACAATTATTGACAACATCTCGTCAGCTAACATTAG
GAGCCTATAAGCATGAAACAGAAATTTGCAGAGCTTGAAGTAAAACAGAGAAAAATTAGAAGCTGCTAA
GAAAAAACAAGCTTTGAGATTGCAGAGCTTAAGGAGAGATTAAGCAAGTCGTGAAACTATAAATTGT
TAAAAAATGAAATCAGAAAACCTGAAGAAGATGACCAAGCAAAAAGACATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201526 representing NM_006530
 Red=Cloning site Green=Tags(s)

MFKRMAEFGPDSGGRVKGVTIVKPIVYGNVARYFGKKREEDGHTHQWTVYVKPYRNEDMSAYVKKIQFKL
 HESYGNPLRVVTKPPYEITETGWGEFEIIKIFFIDPNERPVTLYHLLKLFQSDTNAMLGKKTVSEFYD
 EMIFQDPTAMMQQLLTTSRQLTLGAYKHETFAELVKTREKLEAAKKKT SFEIAELKERLKASRETINC
 LKNEIRKLEEDDQAKDI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006530

ORF Size: 681 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_006530.4](#)

RefSeq Size: 1404 bp

RefSeq ORF: 684 bp

Locus ID: 8089

UniProt ID: [O95619](#)

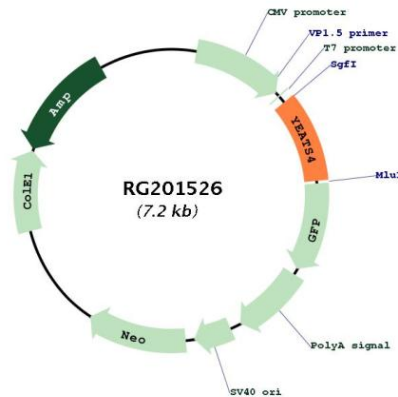
Cytogenetics: 12q15

Domains: YEATS

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: The protein encoded by this gene is found in the nucleoli. It has high sequence homology to human MLLT1, and yeast and human MLLT3 proteins. Both MLLT1 and MLLT3 proteins belong to a class of transcription factors, indicating that the encoded protein might also represent a transcription factor. This protein is thought to be required for RNA transcription. This gene has been shown to be amplified in tumors. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG201526