

Product datasheet for **RG201417**

PA1 (PAGR1) (NM_024516) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PA1 (PAGR1) (NM_024516) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PA1
Synonyms:	C16orf53; GAS; PA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201417 representing NM_024516 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCTTGCTCGGGGCCATGGAGACTGCGGCCAGTACGGCGGCGCCTCTGTCTGAAGAAGGGGAAG
TGACCTCCGGCTCCAGGCTCTGGCCGTGGAGGATACCGAGGCCCTCTGCCTCGGCCGGTAAGGCCGA
GGACGAGGGGGAAGGAGGCCGAGAGGAGACCGAGCGTGAGGGGTCCGGGGCGAGGAGCGCAGGGAGAA
GTCCCCAGCGCTGGGGAGAAGAGCCTGCCGAGGAGACTCCGAGGACTGGTGCCTGCCCTGCAGCGACG
AGGAGGTGGAGCTGCCTGCGGATGGGCAGCCCTGGATGCCCCCGCCCTCCGAAATCCAGCGGCTCTATGA
ACTGCTGGCTGCCACGGTACTCTGGAGCTGCAAGCCGAGATCCTGCCCCGCCGGCTCCACGCCGGAG
GCCCAGAGCGAAGAGGAGAGATCCGATGAGGAGCCGAGGCCAAAGAAGAGGAAGAGGAAAAACACACA
TGCCACGGAATTTGATTTTGATGATGAGCCAGTGACACCAAAGGACTCCCTGATTGACCGGAGACGCAC
CCCAGGAAGCTCAGCCCGGAGCCAGAAACGGGAGGCCCGCTGGACAAGGTGCTGTCGGACATGAAGAGA
CACAAGAAGCTGGAGGAGCAGATCCTTCGTACCGGAGGGACCTTTCAGCCTGGACTCGGAGACCCCA
GCCCGCCAGCCCCCACTCCGATCCTCCGGAGTAGTCTTCCCTCGGCAGCGGAAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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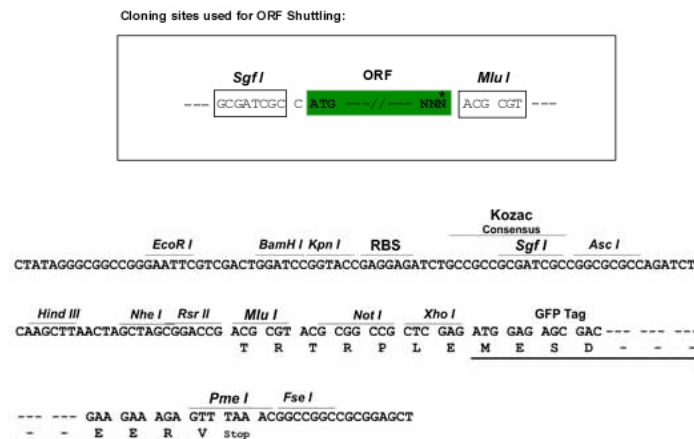
Protein Sequence: >RG201417 representing NM_024516
 Red=Cloning site Green=Tags(s)

MSLARGHGDTAASTAAPLSEEGEVTSGQLALAVEDTGGPSASAGKAEDGEGGREETEREGSGGEEAQGE
 VPSAGGEEPAEEDSEDWCVPSCDEEVELPADGQPWMPPISEIQRLYELLAHGTLELQAEILPRRPPTPE
 AQSEERSDEEPEAKEEEEEKPHMPTEFDDEPVTPKDSLIDRRRTPGSSARSQKREARLDKVLSDMKR
 HKKLEEQILRTGRDLFSLDSEDPSPASPLRSSGSSLFPRQRKY

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024516

ORF Size: 762 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024516.4](#)

RefSeq Size: 1164 bp

RefSeq ORF: 765 bp

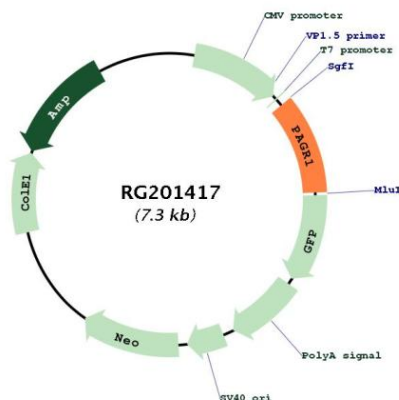
Locus ID: 79447

UniProt ID: [Q9BTK6](#)

Cytogenetics: 16p11.2

Gene Summary: C16ORF53 (PA1) is a component of a Set1-like multiprotein histone methyltransferase complex (Cho et al., 2007 [PubMed 17500065]).[supplied by OMIM, May 2008]

Product images:



Circular map for RG201417