

## Product datasheet for **RG201923**

### PLAAT4 (NM\_004585) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PLAAT4 (NM\_004585) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PLAAT4  
**Synonyms:** HRASLS4; HRSL4; PLA1/2-3; PLAAT-4; RARRES3; RIG1; TIG3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG201923 representing NM\_004585  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTCGCCACACCAAGAGCCAAACCTGGAGACCTGATTGAGATTTCCGCCTTGGCTATGAGCACT  
 GGGCCCTGTATATAGGAGATGGCTACGTGATCCATCTGGCTCCTCCAAGTGAGTACCCCGGGCTGGCTC  
 CTCAGTGTCTTCTCAGTCTGAGCAACAGTGCAGAGGTGAAACGGGAGCGCCTGGAAGATGTGGTGGGA  
 GGCTGTTGCTATCGGGTCAACAACAGCTTGGACCATGAGTACCAACCACGGCCCGTGGAGGTGATCATCA  
 GTTCTGCGAAGGAGATGGTTGGTCAGAAGTGAAGTACAGTATTGTGAGCAGGAAGTGTGAGCACTTTGT  
 CACCCAGCTGAGATATGGCAAGTCCCGCTGTAACAGGTGAAAAAGGCCAAGTTGAAGTCGGTGTGGCC  
 ACGGCGCTTGAATCCTGGTTGTTGCTGGATGCTCTTTTGCATTAGGAGATACCAAAAAAAGCGACAG  
 CC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201923 representing NM\_004585  
 Red=Cloning site Green=Tags(s)

MASPHQEPKPGDLIEIFRLGYEHWALYIGDGYVIHLAPPSEYPGAGSSSVFVLSNSAEVKRERLEDVVG  
 GCCYRVNNSLDHEYQPRPVEVVISSAKEMVQKMKYSIVSRNCEHFVTQLRYGKSRCKQVEKAKVEVGVA  
 TALGILVVAGCSFAIRRYQKATA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_004585

**ORF Size:** 492 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\\_004585.5](#)

**RefSeq Size:** 768 bp

**RefSeq ORF:** 495 bp

**Locus ID:** 5920

**UniProt ID:** [Q9UL19](#)

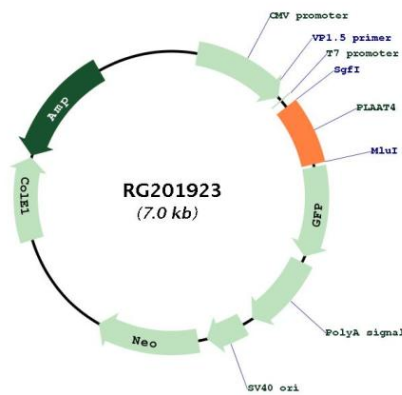
**Cytogenetics:** 11q12.3

**Domains:** NC

**Protein Families:** Druggable Genome, Nuclear Hormone Receptor, Transmembrane

**Gene Summary:** Retinoids exert biologic effects such as potent growth inhibitory and cell differentiation activities and are used in the treatment of hyperproliferative dermatological diseases. These effects are mediated by specific nuclear receptor proteins that are members of the steroid and thyroid hormone receptor superfamily of transcriptional regulators. RARRES1, RARRES2, and RARRES3 are genes whose expression is upregulated by the synthetic retinoid tazarotene. RARRES3 is thought act as a tumor suppressor or growth regulator. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG201923