

## Product datasheet for **RG227250**

### **PTGES3L-AARSD1 (NM\_001136042) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PTGES3L-AARSD1 (NM_001136042) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTGES3L-AARSD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG227250 representing NM\_001136042  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTCTCTTCTCTCAACTGCTCTCCGACCATAAAGGAGAGGCAGCTGCTGGGGCGTCCCAGG  
 ATCTAAAGATAGCGGCCCTGCCTGGAAGCTCTAAATGCCACCCTGGAGCGGGAGCCGAATGGCAGGGCA  
 GCACGCCCGACCTTGTGGTACGACAGGCCAGGTATGTGTTTCATGGAGTTTTGTGTTGAGGACAGCACC  
 GATGTCCACGTGCTTATTGAGGATCACCGCATTGTGTTACAGTGCAGAAATGCCGATGGAGTGGAGTTGT  
 ACAATGAGATTGAGTTCTATGCCAAAGTGAAGTCCAAGGACTCCCAGGATAAGCGCTCTTCCCGCTCTAT  
 TACTTGTGTTGTGAGAAAATGGAAGGAAAAGGTGGCTGGCCGCGGCTTACCAAGGAGGATCAAGCCA  
 GTGTGGCTGTCTGTGGACTTTGATAACTGGAGAGACTGGGAAGGGGATGAAGAGATGGAGCTGGCTCATG  
 TGAACATTATGCAGAGCTTTTGAAGAAGGTGAGCACAAGAGACCTCCACCTGCCATGGATGATTTGGA  
 TTTACCACCACCGTGGTCTCTGCTGTCCCGGAGCTGCAGACTGAAGGGAGCAACGGCAAGAAAGAA  
 GTGCTGAGCGGTTTCCAAGTGGTCTGGAAGACACAGTCTTTCCCTGAGGGCGGGGACAGCCTGATG  
 ACCGTGGTACAATCAATGACATCTCTGTGCTGAGAGTGAAGTCCGCGTGGGGAACAGGCTGATCATTTAC  
 CCAGACACCCCTGGATCCAGGAAGCCAGGTTCTGGTCCGGGTAGATTGGGAGCGGAGTTTGACCACATG  
 CAGCAGCATTAGGGCAGCATCTCATCACGGCAGTTGCTGACCATCTATTTAAGCTGAAGACAACATCAT  
 GGGAGTTAGGGAGATTTTCGGAGTGCATTGAGCTGGACACCCCTCTATGACTGCAGAGCAAGTAGCTGC  
 CATTGAGCAGAGCGTCAATGAAAAATCAGAGATCGGCTGCCTGTGAATGTCGAGAAGTGAAGCTGGAT  
 GATCCTGAGGTGGAGCAGGTGAGTGGCCGGGTTTGCCTGATGATCATGCTGGGCCATTCGGGTTGTTA  
 ACATCGAGGGCGTTGATTCACAACATGTCTGTGGGACCCATGTGAGCAATCTCAGTGACCTCAGTCTGAT  
 TAAGATTCTGGGCACTGAGAAGGGGAAAAAGAACAGAACCAACCTGATATTTCTGTCTGGGAACCGGGTG  
 CTGAAGTGGATGGAGAGAAGTCAATGGAAGTGAAGGCACTGACTGCTCTGCTTAAAGTGTGGAGCAGAGG  
 ATCATGTGGAAGCAGTGAAGGCTCCAGAACTCCACCAAGATCCTGCAGAAAGTAACTGAATCTGCT  
 CAGAGACCTGGCTGTGCACATTGCCATAGCCTCAGGAACAGTCCAGACTGGGGAGGTGTGGTCATATTA  
 CACAGGAAGGAGGGTATTGAGGTTTCAATATCATTGCCAATGAGATTGGGTGAGAGGAGACCTCC  
 TGTTCTTAACTGTGGCGATGAGAAAGGTGGTGGACTCTTCTTACTGGCAGGGCCACCTGCGTCTGTGGA  
 GACCCTGGGGCCAGGGTGGCTGAGTCTGGAAGGCAAAGGAGCAGGGAAGAAAGGCCGTTTTCAGGGC  
 AAGGCCACCAAGATGAGCCGGCGGATGGAGGCGCAGGCGCTTCTCCAGGACTACATCAGCACGCAGAGTG  
 CTAAGGAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG227250 representing NM\_001136042  
 Red=Cloning site Green=Tags(s)

MFSLPLNCSPDHIRRGSCWGRPQDLKIAAPAWNSKCHPGAGAAMARQHARTLWYDRPRYVFMFCVEDST  
 DVHVLIEDHRIVFSCKNADGVELYNEIEFYAKVNSKDSQDKRSSRITCFVRKWKEKVAWPRLTKEDIK  
 VWLSVDFDNWRDWEDEEMELAHVEHYAELLKKVSTKRPPAMDDLDFTTTVVSCCPAELQTEGNGKKE  
 VLSGFQVVLVLEDTVLFPEGGGQPDDRGTINDISVLRVTRRGEQADHFTQTPLDPGSQVLRVDWERRFDHM  
 QQHSGQHLITAVADHLFKLKTTSWELGRFRSAIELDTPSMTAEQVAAIEQSVNEKIRDRLPVNVRELSL  
 DPEVEQVSGRGLPDDHAGPIRVVNIIEGVDNMCCGTHVSNLSDLQVIKILGTEKGKKNRTNLIIFLSG  
 NRV LKWMERSHGTEKALTALLKCGAEDHVEAVKQLQNSTKILQKNNLNLLRDLAVHIAHSLRNSPDWGGVVIL  
 HRKEGDSEFMNIIANEIGSEETLLFLTVDGDEKGGGLFLLAGPPASVETLGPRAVEVLEGGKAGKGRFQ  
 G KATKMSRRMEAQALLQDYISTQSAKE

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001136042

**ORF Size:** 1758 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\\_001136042.2](#), [NP\\_001129514.2](#)

**RefSeq Size:** 2184 bp

**RefSeq ORF:** 1761 bp

**Locus ID:** 100885850

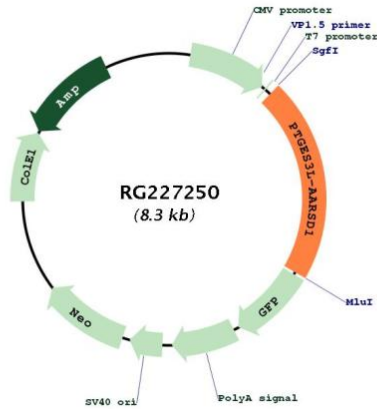
**UniProt ID:** [Q9BTE6](#)

**Cytogenetics:** 17q21.31

**Gene Summary:**

This locus represents naturally occurring readthrough transcription between the neighboring PTGES3L (prostaglandin E synthase 3 (cytosolic)-like) and AARSD1(alanyl-tRNA synthetase domain containing 1) genes on chromosome 17. The readthrough transcript encodes a fusion protein that shares sequence identity with each individual gene product. [provided by RefSeq, May 2012]

**Product images:**



Circular map for RG227250