

## Product datasheet for **RC231861**

### **A2LD1 (GGACT) (NM\_001195087) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** A2LD1 (GGACT) (NM\_001195087) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** A2LD1  
**Synonyms:** A2LD1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC231861 representing NM\_001195087  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCTAGTCTTCGTGTACGGCACCCCTGAAGCGGGTCCAGCCCAACCACAGGGTCTGCGGGACGGCG  
CCCACGGCTCCGAGCCTTTCCGGCGCGCGCCGACGCTGGAGCCCTACCCGTTGGTGATCGCGGGGGA  
GCACAACATCCCCTGGCTGCTGCACCTGCCCGGCTCGGGCGCCTCGTGGAGGGCGAGGTCTACCGGTA  
GACGAGCGGATGCTGCGCTTTCTGGATGACTTCGAGAGTTGCCCGCCCTGTACCAGCGCACGGTCTGTC  
GGGTACAGCTGCTGGAGGACCGGCCCGGGCGCAGAGGAGCCGCGCCAGCGCCACCGCGGTGCAGTGCTT  
CGTGTACAGCAGGGCCACCTTCCCGCCGAGTGGGCCAGCTCCCGCACCATGACAGCTACGACTCCGAG  
GGCCCGCACGGGCTGCGCTACAACCCCGGAGAACAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231861 representing NM\_001195087  
**Red=Cloning site Green=Tags(s)**

MALVFVYGLKRGQPNHRVLRDGAHGSAAFRARGRTLEPYPLVIAGEHNIPWLLHLPGSGRLVEGEVYAV  
DERMLRFLDDFESCPALYQRTVLRVQLLEDRAPGAEPPAPTAVQCFVYSRATFPPEWAQLPHHDSYDSE  
GPHGLRYNPRENR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8034\\_a01.zip](https://cdn.origene.com/chromatograms/mk8034_a01.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001195087

ORF Size: 459 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\\_001195087.1](#), [NP\\_001182016.1](#)

RefSeq Size: 2663 bp

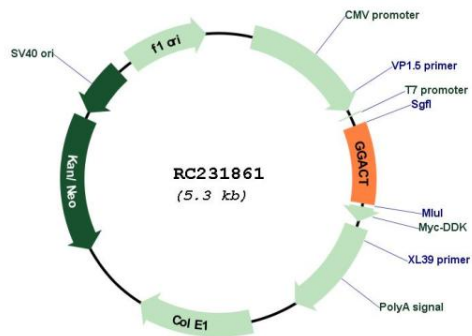
RefSeq ORF: 462 bp

Locus ID: 87769

UniProt ID: [Q9BVM4](#)  
 Cytogenetics: 13q32.3  
 MW: 17.3 kDa

**Gene Summary:** The protein encoded by this gene aids in the proteolytic degradation of crosslinked fibrin by breaking down isodipeptide L-gamma-glutamyl-L-epsilon-lysine, a byproduct of fibrin degradation. The reaction catalyzed by the encoded gamma-glutamylaminocyclotransferase produces 5-oxo-L-proline and a free alkylamine. Two transcript variants encoding the same protein have been found for this gene.[provided by RefSeq, Aug 2010]

**Product images:**



Circular map for RC231861