

## **Product datasheet for RG225133**

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# A2LD1 (GGACT) (NM\_033110) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: A2LD1 (GGACT) (NM 033110) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: GGACT

Synonyms: A2LD1

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG225133 representing NM\_033110

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GGGCCGCACGGGCTGCGCTACAACCCCCGGGAGAACAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG225133 representing NM\_033110

Red=Cloning site Green=Tags(s)

MALVFVYGTLKRGQPNHRVLRDGAHGSAAFRARGRTLEPYPLVIAGEHNIPWLLHLPGSGRLVEGEVYAV DERMLRFLDDFESCPALYQRTVLRVQLLEDRAPGAEEPPAPTAVQCFVYSRATFPPEWAQLPHHDSYDSE

GPHGLRYNPRENR

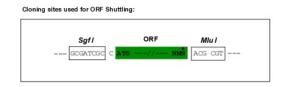
TRTRPLE - GFP Tag - V

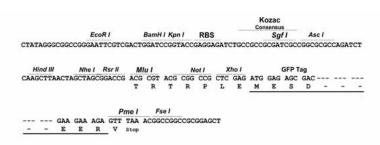
Restriction Sites: Sgfl-Mlul



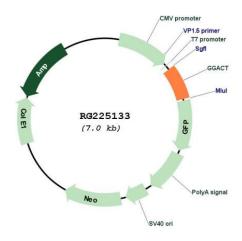


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM 033110

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.



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**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:** <u>NM 033110.2</u>

 RefSeq Size:
 1265 bp

 RefSeq ORF:
 462 bp

 Locus ID:
 87769

 UniProt ID:
 Q9BVM4

 Cytogenetics:
 13q32.3

**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-glutamylaminecyclotransferase 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]