

Product datasheet for **RC225133**

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: Myc-DDK
Symbol: A2LD1
Synonyms: A2LD1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC225133 representing NM_033110
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTAGTCTTCGTGTACGGCACCCCTGAAGCGGGGTCAGCCCAACCACAGGGTCTGCGGGACGGCG
CCCACGGCTCCGACGCTTTTCGGGCGCGCGCCGACGCTGGAGCCCTACCCGTTGGTGATCGCGGGGGA
GCACAACATCCCCTGGCTGCTGCACCTGCCCGGCTCGGGCGCCTCGTGGAGGGCGAGGTCTACCGGTA
GACGAGCGGATGCTGCGCTTTCTGGATGACTTCGAGAGTTGCCCGCCCTGTACCAGCGCACGGTCTGTC
GGGTACAGCTGCTGGAGGACCGGCCCGGGCGCAGAGGAGCCGCGCCAGCGCCACCGCGGTGCAGTGCTT
CGTGTACAGCAGGGCCACCTTCCCGCCGAGTGGGCCAGCTCCCGCACCATGACAGCTACGACTCCGAG
GGCCCGCACGGGCTGCGCTACAACCCCGGAGAACAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225133 representing NM_033110
Red=Cloning site Green=Tags(s)

MALVFVYGTLLKRGQPNHRVLRDGAHGSAAFRARGRTLEPYPLVIAGEHNIPWLLHLPDGSRLVEGEVYAV
DERMLRFLDDFESCPALYQRTVLRVQLLEDRAPGAEPPAPTAVQCFVYSRATFPPEWAQLPHHDSYDSE
GPHGLRYNPRENR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8034_a01.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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_033110.2](#)

RefSeq ORF: 462 bp

Locus ID: 87769

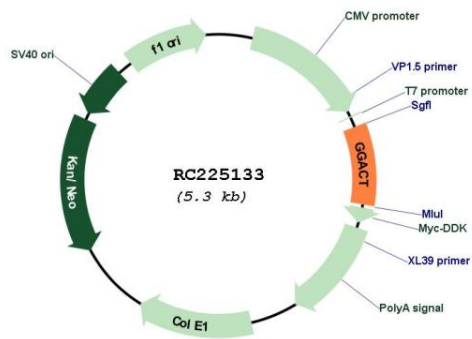
UniProt ID: [Q9BVM4](#)

Cytogenetics: 13q32.3

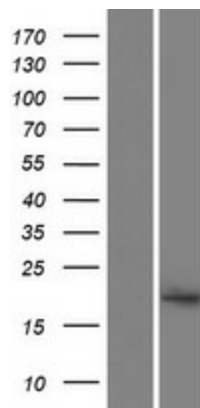
MW: 17.1 kDa

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]

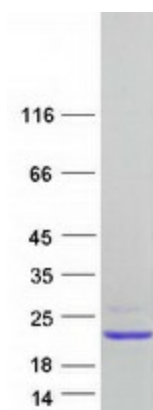
Product images:



Circular map for RC225133



Western blot validation of overexpression lysate (Cat# [LY429850]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225133 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GGACT protein (Cat# [TP325133]). The protein was produced from HEK293T cells transfected with GGACT cDNA clone (Cat# RC225133) using MegaTran 2.0 (Cat# [TT210002]).