

Product datasheet for **RC216430**

AGBL4 (NM_032785) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGBL4 (NM_032785) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AGBL4
Synonyms:	CCP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216430 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTACTTCTTTGGGAGCAGCTGGGCCAGAGTGTGCAACAACGAAAGCTTGACCTCCTGACGATAA
CCAGCCCTGACAATCTCCGGGAAGGGCCAGAGCAGAAGGTGGTATTCATCACAGGACGAGTCCACCCAGG
GGAAACACCCCTCATCATTGTGTGCCAAGGGATCATTGACTTCCTTGAAGCCAGCACCCCTATTGCCTGT
GTCCTCCGGGAATACCTGGTCTTCAAGATCGCACCAATGCTCAATCCTGATGGAGTCTACCTGGCAATT
ACAGGTGTCTCTGATGGGATTTGATCTGAATCGTCACTGGCTGGATCCCTCTCCATGGTCCATCTAC
CCTGCATGGAGTGAAACAACCTCATCGTCCAGATGTACAACGACCCAAAAACAAGCCTGGAGTTTTATATT
GACATCCATGCCACTCCACCATGATGAATGGTTCATGTATGGCAACATCTTTGAGGATGAGGAACGGT
TCCAGAGGCAGGCCATTTTTCCAAGCTCCTCTGCCAGAATGCTGAGGACTTCTCCTATTCCAGCACATC
CTTTAACCGGGACGCTGTGAAAGCAGGAACTGGCCGTCGCTTCTCGGTGGACTCCTGGACCACACTTCC
TATTGCTACACCCTAGAGGTCTCCTTCTACAGCTACATCATCAGTGGCACCACGGCTGCTGTGCCCTACA
CTGAAGAAGCCTGTATCCTTAGTCCCACCCAGCCTTGGCCAGCCCTCATCCAGCCGAGAGTATCCAAG
TCTGACAGGTCAGGAATTAGCCCCCAGCTCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216430 protein sequence
 Red=Cloning site Green=Tags(s)

MDYFFREQLGQSVQQRKLDLLTITSPDNLREGAEQKVVFITGRVHPGETPSSFVCQGIIDFLVSQHPAC
 VLREYL VFKIAPMLNPDGVYLGNYRCSLMGFDLNRHWLDPSPVHPTLHGKQLIVQMYNDPKTSLEFYI
 DIHAHSTMMNGFMYGNI FEDEERFQRQAIFPKLLCQNAEDFSYSSTSFNRDAVKAGTGRFLGGLLDHTS
 YCYTLEVSFYSYIISGTTAAVPYTEEACILSPHPALGQPSSSREYPSLTGQELGPQLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6466_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_032785

ORF Size: 804 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_032785.2](#)

RefSeq Size: 2988 bp

RefSeq ORF: 1512 bp

Locus ID: 84871

UniProt ID: [Q5VU57](#)

Cytogenetics: 1p33

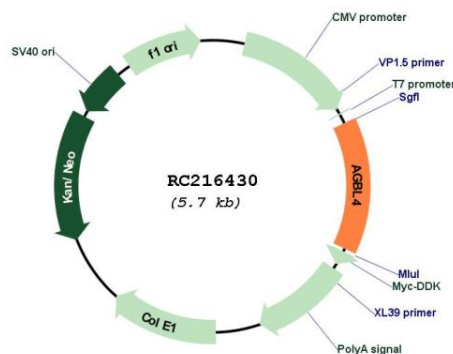
Domains: Zn_carbOpept

Protein Families: Druggable Genome

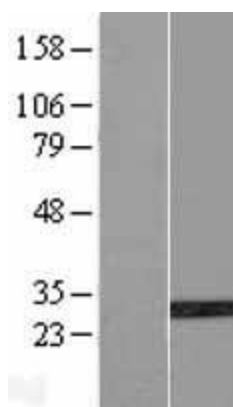
MW: 30.4 kDa

Gene Summary: Metalloprotease that mediates deglutamylation of target proteins. Catalyzes the deglutamylation of polyglutamate side chains generated by post-translational polyglutamylation in proteins such as tubulins. Also removes polyglutamates from the carboxy-terminus of target proteins such as MYLK. Mediates deglutamylation of CGAS, regulating the antiviral activity of CGAS. Acts as a long-chain deglutamylase and specifically shortens long polyglutamate chains, while it is not able to remove the branching point glutamate, a process catalyzed by AGBL5/CCP5.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216430



Western blot validation of overexpression lysate (Cat# [LY409924]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216430 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).