

Product datasheet for **RG216430**

AGBL4 (NM_032785) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	AGBL4
Synonyms:	CCP6
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216430 representing NM_032785
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATTACTTCTTTCGGGAGCAGCTGGGCCAGAGTGTGCAACAACGAAAGCTTGACCTCCTGACGATAA
CCAGCCCTGACAATCTCCGGGAAGGGGAGAGCAGAAGGTGGTATTCATCACAGGACGAGTCCACCCAGG
GGAAACACCCTCATCATTTGTGTGCCAAGGGATCATTGACTTCCTTGTAAGCCAGCACCTATTGCCTGT
GTCCTCCGGGAATACCTGGTCTTCAAGATCGACCAATGCTCAATCCTGATGGAGTCTACCTGGGCAATT
ACAGGTGTTCTCTGATGGGATTTGATCTGAATCGTCACTGGCTGGATCCCTCTCCATGGGTCCATCCTAC
CCTGCATGGAGTGAACAACCTCATCGTCCAGATGTACAACGACCCAAAAACAAGCCTGGAGTTTTATATT
GACATCCATGCCACTCCACCATGATGAATGGCTTCATGTATGGCAACATCTTTGAGGATGAGGAACGGT
TCCAGAGGCAGGCCATTTTCCCAAGCTCCTTGCCAGAATGCTGAGGACTTCTCTATTCCAGCACATC
CTTTAACCGGGACGCTGTGAAAGCAGGAAGTGGCCGTCGCTTCTCGGTGGACTCCTGGACCACACTTCC
TATTGTACACCCTAGAGGTCTCCTTCTACAGCTACATCATCAGTGGCACCACGGCTGCTGTGCCCTACA
CTGAAGAAGCCTGTATCCTTAGTCCCCACCCAGCCTTGGCCAGCCCTCATCCAGCCGAGAGTATCCAAG
TCTGACAGGTCAGGAATTAGGCCCCAGCTCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



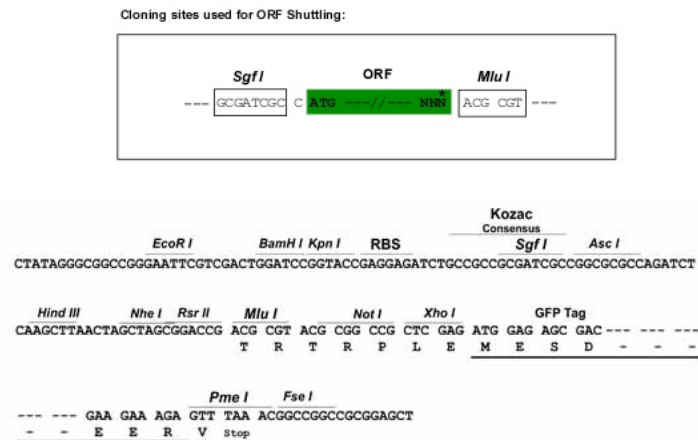
Protein Sequence: >RG216430 representing NM_032785
 Red=Cloning site Green=Tags(s)

MDYFFREQLGQSVQQRKLDLLTITSPDNLREGAEQKVVFITGRVHPGETPSSFVCQGIIDFLVSQHPIAC
 VLREYLVFKIAPMLNPDGVYLGNYRCSLMGFDLNRHWLDPSPWVHPTLHGKQLIVQMYNDPKTSLEFYI
 DIHAHSTMMNGFMYGNIFEDEERFQRQAIFPKLLCQNAEDFSYSSTSFNRDAVKAGTGRRFLGGLDHTS
 YCYTLEVSFYSYIISGTTAAVPYTEEACILSPHPALGQPSRSSREYPSLTGQELGPQLR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032785

ORF Size: 804 bp

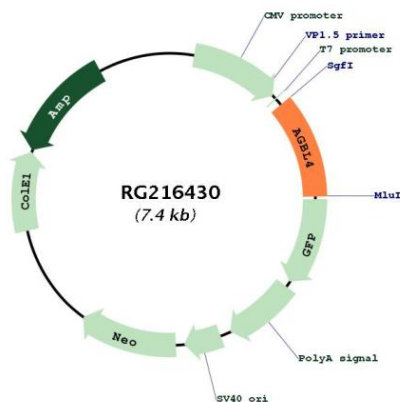
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_032785.2</u>
RefSeq Size:	3938 bp
RefSeq ORF:	1512 bp
Locus ID:	84871
UniProt ID:	<u>Q5VU57</u>
Cytogenetics:	1p33
Domains:	Zn_carbOpept
Protein Families:	Druggable Genome
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 deglutaminase 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 RG216430