

Recombinant Full Length Human A2ML1 Protein, C-Flag-tagged

Cat. No. A2ML1-1318HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human A2ML1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the alpha-macroglobulin superfamily. The encoded protein is thought to be an N-glycosylated monomeric protein that acts as an inhibitor of several proteases. It has been shown to form covalent interactions with proteases, and has been reported as the p170 antigen recognized by autoantibodies in the autoimmune disease paraneoplastic pemphigus (PNP; PMID:20805888). Mutations in these gene have also been associated with some cases of Noonan syndrome (NS; PMID:24939586) as well as some cases of otitis media (PMID:26121085). Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	161 kDa
AA Sequence	MWAQLLLGLMLALSPAIAEELPNYLVTLPARLNFPSVQKVCLDLSPGYSDVKFTVTLET KDKTQKLLEYSGLKKRHLHCISFLVPPPAGGTEEVATIRVSGVGNNISFEEKKKVLIQ RQGNGTFVQTDKPLYTPGQQVYFR IVTMDSNFVPVNDKYSMVELQDPNSNRIAQW LEVVPEQGIVDLSFQLAPEAMLGTYTVAVAEGKTFGTFS VEEYVLPKFKVEVVEPKE

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LSTVQESFLVKICCRYTYGKPM LGAVQVSVCQKANTYWYREVEREQLPDKCR NLS
 GQTDKTGCF SAPVDMATFDLIGYAYSHQINIVATVVEEGTGVEANATQNIYISPQMG
 SMTFEDTSNF YHPNFPFSGKIRVRGHDDSFLKNHLVFLVIYGTNGTFNQTLVTDNN
 GLAPFTLETSGWNGTDVSLEGKFQ MEDLVYNPEQVPRYYQNAYLHLRPFYSTTRS
 FLGIHRLNGPLKCGQPQEVLVDYYIDPADASPDQEISFS YYLIGKGS LVM EGQKHLN
 SKKKGLKASFSLSTFTSRLAPDPSLVIYAIFPSGGV VADKIQFSVEMCFDN QVSLGF
 SPSQQLPGA EVELQLQAAPGSLCALRAVDES VLLL RP DRELSNRSVYGMFPFWYG
 HYPYQVAEY DQCPVSGPWDFPQPLIDMPQGHSSQRSIIWRPSFSEGTDLFSFFR
 DVGLKILSNAKIKKPVDCSHRSPE YSTAMGAGGGHPEAFESSTPLHQAEDSQVRQY
 FPETWLWDLFPIGNSGKEAVHVTVPDAITEWKAMSFCT SQRGFGLSPTVGLTAFK
 PFFVDLTLPYSVVRGESFRLTATIFNYLKDCIRVQTDLAKSHEYQLESWADS QTSSC
 LCADEAKTHHWNITAVKLGHINFTISTKILDSNEPCGGQKGFVPQKGRSDTLIKPVLV
 KPEGVLV EKTHSSLLCPKGKVASESVSLELPVDIVPDSTKAYVTVLGDIMGTALQNL
 DGLVQMPSGCGEQNMVLFAP IYVLQYLEKAGLLTEEIRSRAVG FLEIGYQKELMYK
 HSNGSYSAFGERDGNNGNTWLTAFTVKCFGQAQK FIFIDPKNIQDALKWMAGNQLP
 SGCIYANVGNLLHTAMKGGVDDEVSLTAYVTAALLEMGKD VDDPMVSQG LRCLKNS
 ATSTTNLYTQALLAYIFSLAGEMDIRNILLKQLDQQAISGESIYWSQKPTPSSNASPW
 SEPA AVDVELTAYALLAQLTKPSLTQKEIAKATSIVAWLAKQRNAYGGFSSTQDTV
 ALQALAKYATTAYMPSE EINLVVKSTENFQRTFNIQSVNRLVFQQDTLPNVPGMYTL
 EASGQGCYVYQTVLRYNLPPTNMKTFSL S VEIGKARCEQPTSPRSLTLTIHTSYVG
 SRSSSNMAIVEVKMLSGFSPMEGTNQLLLQQPLVKKVEFGTDT
 LNIYLDELIKNTQTYTFTISQSVLVTNLKPATIKVYDYLPDEQATIQYSDPCETRTRPL
 EQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.

Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

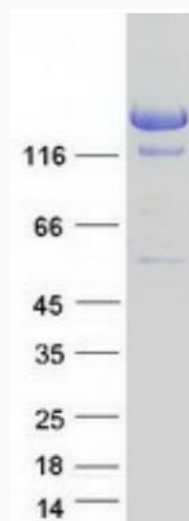
GENE INFORMATION

Gene Name	A2ML1 alpha-2-macroglobulin like 1 [Homo sapiens (human)]
Official Symbol	A2ML1
Synonyms	OMS; p170; CPAMD9
Gene ID	144568
mRNA Refseq	NM_144670.6
Protein Refseq	NP_653271.3
MIM	610627
UniProt ID	B3KVV6

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Coomassie blue staining of purified A2ML1 protein.