

## Product datasheet for **SC337725**

### **A2ML1 (NM\_001282424) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	A2ML1 (NM_001282424) Human Untagged Clone
Tag:	Tag Free
Symbol:	A2ML1
Synonyms:	CPAMD9; OMS; p170
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001282424, the custom clone sequence may differ by one or more nucleotides

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ATGTTAATAGGGAAGGAAAGTTTGGTGATGGAGGGGCAGAAACACCTGAACTCTAAGAAGAAAGGACTGA
AAGCCTCCTTCTCTCTCACTGACCTTCACTTCGAGACTGGCCCCTGATCCTTCCCTGGTGATCTATGC
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TGGTATGTCACAGCTGCATTGCTGGAGATGGGAAAGGATGTAGATGACCCAATGGTGGTCAAGGCTCTA
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GTAGATGTGGAATCACAGCATATGCATTGTTGGCCAGCTTACCAAGCCAGCTGACTCAAAGGAGA
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AACATTTACTGGATGAGCTCATTAAAGAACACTCAGACTTACACCTTACCATCAGCCAAAGTGTGCTGG
TCACCAACTTGAAACCAGCAACCATCAAGGCTATGACTACTACCTACCAGATGAACAGGCAACAATTCA
GTATTCTGATCCCTGTGAATGA
    
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001282424

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001282424.2</a> , <a href="#">NP_001269353.1</a>
<b>RefSeq Size:</b>	3801 bp
<b>RefSeq ORF:</b>	2892 bp
<b>Locus ID:</b>	144568
<b>UniProt ID:</b>	<a href="#">A8K2U0</a>
<b>Cytogenetics:</b>	12p13.31
<b>Gene Summary:</b>	<p>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. [provided by RefSeq, Aug 2015]</p> <p>Transcript Variant: This variant (2) represents use of an alternate promoter, and thus differs in the 5' UTR and 5' coding region, compared to variant 1. These differences cause translation initiation at an alternate AUG, and the resulting isoform (2) has a distinct and shorter N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>