

## Product datasheet for **MC226166**

### Apod (NM\_001301353) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apod (NM_001301353) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Apod
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226166 representing NM_001301353 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGACCATGCTGATGTTCTGGCCACGCTGGCGGGTCTCTTACCACAGCCAAAGGACAAAATTTCC  
ATCTTGGGAAATGCCCGTCTCCTCCTGTGCAAGAGAATTTGACGTGAAAAAGTATCTTGAAGATGGTA  
CGAAATTGAGAAGATCCAGCGAGCTTTGAGAAAGGAACTGCATTCAAGCCAATACTCGCTGATGGAG  
AACGGAACATCGAAGTGCTAAACAAGGAGCTGAGTCCTGATGGAACCATGAACCAAGTAAAGGGTGAAG  
CCAAACAGAGCAACGCTCTCAGAGCCAGCCAAGCTGGAAGTCCAGTCTTCCCGTTGATGCCACCGGCACC  
CTACTGGATCCTGGCCACCGATTATGAAACTATGCCCTCGTGTACTCCTGCACCACCTTCTTCTGGCTC  
TTCCATGTGGATTTGTTTGGATTCTTGAAGAAATCCTTATCTCCCTCCAGAAACAATAACCTACCTAA  
AAGATATCCTTACTTCTAATGGCATCGACATCGAAAAATGACAACAACAGATCAAGCGAACTGCCCGGA  
CTTCCTG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001301353
Insert Size:	570 bp
OTI Disclaimer:	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).


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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001301353.1</a> , <a href="#">NP_001288282.1</a>
<b>RefSeq Size:</b>	2070 bp
<b>RefSeq ORF:</b>	570 bp
<b>Locus ID:</b>	11815
<b>UniProt ID:</b>	<a href="#">P51910</a>
<b>Cytogenetics:</b>	16 21.41 cM
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a component of high-density lipoprotein (HDL), but is unique in that it shares greater structural similarity to lipocalin than to other members of the apolipoprotein family, and has a wider tissue expression pattern. The encoded protein is involved in lipid metabolism, and ablation of this gene results in defects in triglyceride metabolism. Elevated levels of this gene product have been observed in multiple tissues of Niemann-Pick disease mouse models, as well as in some tumors. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR compared to variant 1. Variants 1, 2, and 3 encode the same protein. 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>