

## Product datasheet for **MC219961**

### Melk (NM\_010790) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Melk (NM_010790) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Melk
Synonyms:	AI327312; mKIAA0175; MPK38
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219961 representing NM\_010790  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAGATTATGACGAACCTCTCAAATACTATGAACTATATGAAACGATTGGGACAGGTGGCTTTGCAA  
 AGGTCAAACCTGGCCTGCCATGTCCTCACTGGAGAGATGGTAGCTATAAAAATCATGGATAAGAATGCGCT  
 AGGGAGTGATTTGCCCGAGTCAAAACTGAGATCGATGCGCTGAAGAGTCTGAGACATCAGCACATATGT  
 CAGCTCTACCATGTGCTGGAGACAAAGAACAAAATATTTCATGGTTCTGGAGTACTGTCCAGGAGGAGAGC  
 TGTTTGACTACATAATCTCCAGGATCGCTGTGGAAGAGGAGACCCGGGTCGCTTCCGTCAGATACT  
 GTCTGCAGTTGCGTATGTCCACAGCCAGGGCTATGCCACAGGGACCTCAAACCAGAAAATTTATTATTT  
 GATGAAAATCATAAGCTAAAGCTGATTGACTTTGGTCTTTGTGCAAAACCAAGGCAACAAGGACTACC  
 ATCTGCAGACGTGCTGTGGGAGCCTTGCTTATGCAGCTCCTGAACTAATACAAGGGAAGTCGTACCTTGG  
 ATCAGAGGCAGATGTTTGGAGCATGGGCATCCTCTGTATGTGCTCATGTGTGGATTTCTACCATTTGAT  
 GATGATAATGTATGGCTTTGTACAAGAAGATAATGAGAGGGAAATACGAAGTTCCTAAGTGCTCTCTC  
 CCAGTAGCATTCTGCTTCTCCAGCAGATGTTGCAGGTGGACCCAAAGAAACGGATTTCTATGAGAAATCT  
 CCTGAACCATCCCTGGGTGATGCAAGATTACAGCTGTCCCGTGGAGTGGCAAAGCAAGACTCCTTTGACT  
 CACCTCGATGAGGATTGCGTGACAGAGCTTTCTGTACATCACCGCAGCAGGAGGAGACAATGGAGGATT  
 TAATTTGCTCGTGGCAGTACGATCACCTCACAGCCACCTACCTTCTGCTTCTAGCCAAGAAGGCCCGGGG  
 GAAGCCGGCTCGTCTACAGCTCCTGTCTTCTTGTGGAACCCAGCACCCTCCAAAGTCAAAGAAT  
 CTGAGCCTGGAAGATATGAGCACAAGTGATGATAACTGTGTGGCTGGATTGATAGACTATGAATTTGTGTG  
 AAGATAAATTATTAGCTCCCAAGACGCCACAGGTTACCAACACTTGGCAGAATCAAATCACGCAGCATC  
 TAAATCACAGGCCAGGGGTACGCAGAGCAGTGGCAAATAAATTAATGGACAAAGAAAATGTGTGCACT  
 CCCAAGTCTTCTGTGAAGAATGAAGAGCAGTTTGTATTTTCTGAGCCGAAGATTCAGTTAGTAAGAACC  
 AGTATAAGAGAGAAAATACCCGCCTCACCAACCCGTTTCCCAACACCTGCAAAAAGCTAGAGCCAGTGCCT  
 GAGAGAAGCCCCGGTTAGAACACCAGGGAATCCGCAGGAGCAGACACACTAACGACAGGTGTCATTAGC  
 CCCGAGAGGAGGTGCCGTTCAATGGACGTGGATCTCAACCAGGCACACATGGAGGATACCCCGAAAAAGA  
 AAGGAACCAATGTGTTTGGGAGCCTTGAGAGAGGACTGGATAAGGTTCTCACTGCGCTCACAAAGGAACA  
 GAAGAAGGGCTCTGCCAGAGATGGACCAAGAAAGCGAAAGCTGCACTACAATGTGACTACAACCTCGCCTG  
 GTGAACCCGACCAGCTCCTGAGCGAAATCATGGCTATTCTTCCAAAGAAGAACGTGGACTTCGTACAGA  
 AAGGTTACACTCTAAAGTGTCAAACGCAGTCTGATTTTGGCAAAGTGACAATGCAGTTTGAAGTGAAGT  
 GTGCCAGCTGCAGAGACCTGACGTGGTAGGCATCCGGAGACAGCGGCTGAAGGGTATGCCTGGGTTTAC  
 AAGAGATTAGTGAAGATATCTTGTCTGGCTGCAAGAT**GTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_010790

**Insert Size:** 1932 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).

**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).

<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_010790.2</a> , <a href="#">NP_034920.2</a>
<b>RefSeq Size:</b>	2914 bp
<b>RefSeq ORF:</b>	1932 bp
<b>Locus ID:</b>	17279
<b>UniProt ID:</b>	<a href="#">Q61846</a>
<b>Cytogenetics:</b>	4 23.46 cM
<b>Gene Summary:</b>	<p>Serine/threonine-protein kinase involved in various processes such as cell cycle regulation, self-renewal of stem cells, apoptosis and splicing regulation. Has a broad substrate specificity; phosphorylates BCL2L14, CDC25B, MAP3K5/ASK1 and ZNF622. Acts as an activator of apoptosis by phosphorylating and activating MAP3K5/ASK1. Acts as a regulator of cell cycle, notably by mediating phosphorylation of CDC25B, promoting localization of CDC25B to the centrosome and the spindle poles during mitosis. Plays a key role in cell proliferation. Required for proliferation of embryonic and postnatal multipotent neural progenitors. Phosphorylates and inhibits BCL2L14. Also involved in the inhibition of spliceosome assembly during mitosis by phosphorylating ZNF622, thereby contributing to its redirection to the nucleus. May also play a role in primitive hematopoiesis.[UniProtKB/Swiss-Prot Function]</p>