

## Product datasheet for **RR203510**

### Melk (NM\_001108662) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Melk (NM\_001108662) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Melk  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR203510 representing NM\_001108662  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGATTATGACGAGCTCCTAAATACTATGAATTATATGAACTATTGGGACAGTGGCTTTGCAA  
AGGTCAAACCTGGCTGTCATATCCTCACTGGAGAAATGGTAGCTATAAAAAATCATGGATAAGAATGCAT  
AGGGAGCGATTTGCCCGAGTCAAACCTGAAATTGATGCCCTGAAGAATCTGAGACATCAGCATATATGT  
CAGCTCTACCATGTGCTAGAGACAAAGAACAAAATATTCATGGTGCTTGAGTACTGTCCAGGAGGAGAGC  
TGTTTGACTACATCATCTCCAGGATCGCTGTGGAAGAGGAGACCCGAGTCATCTCCGCCAGATCCT  
GTCTGCAGTTGCATATGTGCACAGCCAGGGCTATGCCACAGGGACCTCAAGCCAGAAAATTTATTGTTT  
GACGAAAATCATAAGCTAAAGCTGATTGACTTTGGTCTCTGTGCAAAACCAAGGCAACAAGGACTACC  
ATCTACAGACATGCTGTGGGAGTCTGGCGTATGCAGCACCTGAACTAATAACAAGGAAATCGTATCTTGG  
ATCAGAGGCAGATGTTTGGAGCATGGGCATCCTCCTATATGTGCTTATGTGTGGATTCTCCCGTTTGAT  
GATGATAATGTCATGGCTTTGTACAAGAAGATAATGAGAGGGAAGTATGAAGTTCCCAAGTGGCTGTCTC  
CCAGCAGCATCCTGCTTCTCCAGCAGATGCTTCAGGTGGACCCAAGAGACGGATTTCTATGAAAAATCT  
CTTGAACCATCCCTGGATCCTGCAAGATTACAGCTGTCCATTGAGTGGCAAAGCAAGGCTTCTTTGACT  
CACCTTGATGAGGATTGCATAACAGAGCTTTCTGTACATCACCGCAACAGCAGGCAACAATGGAGGATT  
TAATTTGCTCGTGGCAGTATGATCACCTCACAGCCACCTACCTTCTGCTTCTAGCCAAGAAGGCTCGAGG  
GAAGCCAGCTCGTCTGCAGCTTCTGTCTTCTCTGGTGGGACCACCAGCACCCTCCAAGGCAATCAAA  
GAACCTGAGCCTGGAAGATATGTCCACAAGTGGCGA

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR203510 representing NM\_001108662  
 Red=Cloning site Green=Tags(s)

MKDYDELLKYYELYETIGTGGFAKVKLACHILTGEMVAIKIMDKNALGSDLPRVKTEIDALKNLRHQHIC  
 QLYHVLETKNKIFMVLEYCPGGELFDYIISQDRLSEETRVI FRQILSAVAYVHSQGYAHRDLKPENLLF  
 DENHKLKLIIDFGLCAKPKGNKDYHLQTCGSLAYAPELIQGKSYLGSEADVWSMGILLVYLMCGFLPFD  
 DDNVMALYKKIMRGKYEVPKWLSPSSILLQQLQVDPKRRISMKNLLNHPWILQDYSCPIEWQSKASLT  
 HLDEDCITELSVHHRNSRQTMEDLISSWQYDHLTATYLLLLAKKARGKPARLQLLSFSGGTTSTTPKAIK  
 EPEPGRYVHKWR

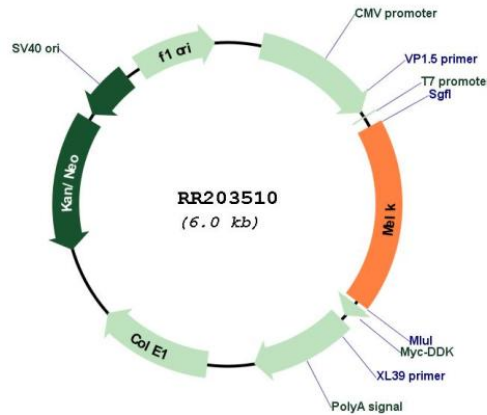
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001108662

<b>ORF Size:</b>	1086 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001108662.1</a> , <a href="#">NP_001102132.1</a>
<b>RefSeq Size:</b>	2842 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	362510
<b>Cytogenetics:</b>	5q22
<b>MW:</b>	41.6 kDa