

## Product datasheet for **MC221766**

### Perm1 (NM\_172417) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Perm1 (NM_172417) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Perm1
Synonyms:	2310042D19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221766 representing NM\_172417  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACAACCTCCAGTACAGCGTCCAGCTCAGCGATCGGGAGTGGGCCGAGTTTTTCAGCCACTGCTGATG  
 AGTGTGGCCTCTTGCAGGCTGACCTGGCCTCTGGTGACGAGCCCTTGCCAGTGACATTGACCAAGGGGA  
 CAGCAGTGAAGCAGCCCCCTGGGCCCCACCCCTTCACTGGGCAGCTGGTTTTCCCAAGGGAGGGGA  
 CAACAGAGCCGTGAGTTGGAGGACGTGGCTGCTCAGCAGCTGGTCAGCAGGTCTCAGTGTGAGCCTGTCC  
 TGGCTCTGGAGGCCAGTCATCAGGTAGCCGGCAGTCCACACAGTCAGAGGCCCTCTGTTCCCAAGCTT  
 AGACAGTGTCTGTCTGGCCAGGCTTGTCTTTCCAGGGCCGGCAACTGCAGAGACAAGATGCAGAGG  
 CTTTTGCAAGGCCCTGCCCTAGCTCTCCAGTAAAGCCCTCATAGTCTGAGTCCCCTGGCCATAGCG  
 ACAACCCTCAGAGTCCCCTGACAGCCTCGAAGCTTACCAGCGGAACCCCTGGTCGTAAGAAGAGGGCTGC  
 TGTAGGTGCCAAGGGACCAAGCACTCCGGATCTCTGGACTCTGCTGCTACCCAGATGAGCTCCCCACAG  
 CTTACCAGGCCCAAGGAGGCTCTCATGTCTGGGACACTGATGGCAAAAGCCAGCAGGATAAGCCACAGC  
 CTGACTCCACGAGTCTGAACAGATGGCCAGAGAGGAGTCAAGGCTTGGATCTTTCTACACCTATTCTGAT  
 AACTGAACAAGATCAGATCAGAAAGACATCCAGAGCTGCGTTACATGTGGTATCCAAACCTGTCCAGGAA  
 GTTCACCCAGATGTCCCATGGCCTCACCAATGTGTCTACACGTGCCTCCAAGCCTCAACCCGACGTGG  
 CTTTGCCTAAACCTGCCTCAAGCCGAGTCTGACATAGCTTCGTCTACACATCCCTTACGCCTGACGT  
 GTCTTTGTCCACACTTGCCTTCAAATGTCAACCAATACAAATCAGTCTACACCCGCTCTGAGCCTGAC  
 ATGGCTTTGTCTACACCTGCCTGAGCCTGACACGGCTTTGTCTACACCCGCTCTGAGCCTGACACGG  
 CTTTGTCTACACCCGCTCTGAGCCTGACACGGCTTTGTCTACACCCGCTCTAGGTCGCAACTGGTGAA  
 GGCTGAATTTGCGTCTGCTTGCACACCTGGATTGCATGTGGACCTCTCTGCAGCAGGCTCAGAGATCAAG  
 CCAGAAGTTTCTCTCTATGCCTGCCGAGTGGATGTGCTTCGTACAGATCTGCCTCGTTCTGTTTCAA  
 AGACTGAGTCTAAAGAGAGTGTGTCTATACCTGTTAAGCCTTCTTTATCCCTATTTCCAGGCTGAAGC  
 TGCCATGGTGGATACAGGTGTGTCTGTACTCCAGGGGAAGCATTGAGAAGCCAGCAGGGCAGTTCTCA  
 GCAGGGTCTCAGGAGAGTCTGCCTAGGTCCCGTCCAAGCCCCAAGAAGAAGAAAGTACGATTTTCCA  
 TGGCTATCCCCAGCCATGAAGACTCAGGGTCAAGGGGAGCCTACAGGTTACCCCTTCTAACCCGGAGCA  
 GCCCCAGTCCCAGGACAGCAGCAGGAAGCCGTGGGGGTCTGCAGCCTGGGATGCTGTGGCTGTCGG  
 CCCCAGTCCCAGCCTCGGATCCTCAAGCACCTGCCTCCTCCTGTATCCTCTGTATCAGCAGAGGCTG  
 AGTCTGGAAACTGCTTTGCAGTGACTCTCCCTGAGGCCTACGAGTTCTTCTTCTGTGACACCATTGAGGA  
 GGAAGATGAAGACGTAGAGGACGAAGAGGCAGCCAGCCAAGCCCTGGATGAAGTCCAATGGCCTGACACA  
 TGCGAGTTTTTTTTCGGGATAGCAGAGCCAAAGATCAAGATGTGAGAGGGGACACTCTCCAGTCTCAC  
 CACCAAGAGCAGACACCGTGGCACCTGTCCCCCTGAAGGCTTGGTGCCTATTTCCATCCCTGAGGTCTA  
 TGAACACTTCTCACTGAGGAAGGATTTGGGCACAGACAGCCTGCGGCCACTCCTATGCAGACCTCAGAG  
 CTTTCCAGGGAAGGAGGGCTTGAAGCATCCACCAAGCCTGTTTACCTACAGCGGAACATCTTAGCTTAA  
 CAGTCAGGAAGGCAGGGAACTACGGAGCCCCCACTTCATTTACGTTACAGTAAAACGACATGTGCCCT  
 GGTGTTTGTGCTTTGCCACTTGGCTGTGAGAACCTCAGATCTACAAGCCCCAGATGCTTGGAAAACA  
 GTCTTGCTCGCCAACATTGGCACCATCTCTGCTATCCGCTACTTCCGCTCAGGTTGGGAGAGGCCATA  
 GTGGCAGACCGAGATCCAGTTCAGCTCAAACCCAGCTGCT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_172417  
**Insert Size:** 2424 bp

<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_172417.3</a> , <a href="#">NP_766005.2</a>
<b>RefSeq Size:</b>	3849 bp
<b>RefSeq ORF:</b>	2424 bp
<b>Locus ID:</b>	74183
<b>UniProt ID:</b>	<a href="#">Q149B8</a>
<b>Cytogenetics:</b>	4 E2
<b>Gene Summary:</b>	Regulates the expression of selective PPARGC1A/B and ESRRA/B/G target genes with roles in glucose and lipid metabolism, energy transfer, contractile function, muscle mitochondrial biogenesis and oxidative capacity. Required for the efficient induction of MT-CO2, MT-CO3, COX4I1, TFB1M, TFB2M, POLRMT and SIRT3 by PPARGC1A. Positively regulates the PPARGC1A/ESRRG-induced expression of CKMT2, TNNT3 and SLC2A4 and negatively regulates the PPARGC1A/ESRRG-induced expression of PDK4.[UniProtKB/Swiss-Prot Function]