

## Product datasheet for MC214572

### Catsper4 (NM\_001130030) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Catsper4 (NM\_001130030) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Catsper4  
 Synonyms: 4933412L05  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC214572 representing NM\_001130030  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTGAAAAACACAAGTGGTGGCAGCAGGTGGAGAACATCGACATCACACACCTGGGCCCTAAGAGAA  
 AAGCCTATGAACCTCTGGGTCGGCATGAGGAGCAAGTGCTCATCAACCGCAGAGATGTCATGGAGAAGAA  
 GGATGCCTGGGATGTACAGGAATTCATCACTCAAATGTATATCAAGCAGTTGCTCCGCCATCCGGCCTTC  
 CAGCTGCTGCTGGCCTTCTGCTGCTGTCCAACGCTATACCATTGCCCTTCGCACCAACTTTATCTCG  
 GTCAGAAACATTACGAGCTATTCTCGACCATAGATGACATTGTGTTGACGATCCTTATCTGCGAGGTTCT  
 GCTTGGTTGGCTTAACGGCTTCTGGATTTCTGGAAGGATTCTCTGTGTTGGGGTCACGCTCTTCGGT  
 GCATTTGTGCCAAGCATTTCCAGAACATGGGGGTTGCCCTGTACACGCTCTTCACTGTCATCACTCAGG  
 ATGGATGGCTGGACATCTACACTGACTTCCAGATGGATGAAAGAGAGTACGCGATGGAGGTCGGGGGCGC  
 CATCTACTTTGCCGCTTTATCACCCCTCGGTGCCTTCATTGGTCTCAACTTGTCGTCGTCGTGGTGACC  
 ACAAACCTGGAACAAATGATGAAGACCGCGGAGGAAGAGGGACACCTGAACATAAAGTTTACTGAGACAG  
 AAGAGGATGAGGACTGGACCGACGAGTGCCTGCTGTCATTGTACAGAGGCCCGCAAGGACTTCCAC  
 TGTCCCAAGGAACCACTGGTTGGGGGCCCTGAGTAACCTCACAGAAAAGACCTGCGATAACTTCTGC  
 TTGGTGTGAAGCAATACAGGAGAATTGATGGAGTACAAGAGATCCGAGAGGAACTCAACATGATCG  
 TGGAGGAAGTGTCTCCATCCGGTTCAACCAGGAGCAGCAAAATGTGATCCTACACAAGTATACCTCAA  
 AAGCGCCACCTTCTAAGCGAGCCCCAGAAGGGGCTAACAAAGCAAGACTTGATCACTGCGCTGTCAGC  
 AGGGAAAAGGTGTCTGATTCTAACATAAACATGGTTAACAAACACAAGTTCAGCCACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001130030



<b>Insert Size:</b>	1110 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>	<u>NM_001130030.1, NP_001123502.1</u>
<b>RefSeq Size:</b>	1511 bp
<b>RefSeq ORF:</b>	1110 bp
<b>Locus ID:</b>	329954
<b>UniProt ID:</b>	<u>Q8BVN3</u>
<b>Cytogenetics:</b>	4 D3
<b>Gene Summary:</b>	<p>Voltage-gated calcium channel that plays a central role in sperm cell hyperactivation. Controls calcium entry to mediate the hyperactivated motility, a step needed for sperm motility which is essential late in the preparation of sperm for fertilization. Activated by intracellular alkalinization.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) is missing 2 contiguous internal coding exons compared to variant 1, however, it maintains the reading frame, and encodes a shorter isoform (2) that is lacking a 73 aa internal segment compared to isoform 1.</p>