

Product datasheet for **MC220461**

Catsper1 (NM_139301) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Catsper1 (NM_139301) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Catsper1
Synonyms:	Catsper; KSper
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220461 representing NM_139301
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCAATCTTCAAGGAGGGACGAGTCTTACCATGAGACACACCCCGTAGCTTAGACCCAAGCCATC
 AATCCCACCCCAACCCCAACCCCAACCCCAACCCCGCATAGGCCAAACCAAGGTGGCGTCTATTACGATTC
 TCCTCAGCATGGGATGTTCCAACAACCATACCAACAGCATGGTGGTTCCATCAACAAAATGAATTGCAG
 CATTGCGTGAGTTCTCAGACTCCCATGACAATGCTTTCTCCCATCATTCTATCAGCAGGACAGGGCTG
 GTGTCTCTACCTTACCTAATAACATCTCTCAGCCTTATGGTGGATCGCACCCCTTGCTGAGTCCCAGCA
 CTCTGGTGGACCCAGAGTGGACCTCGATTGACCCGAATCATCATCCCCACCAAGATGACCCCATAGA
 CCCAGTGAACCTTGTCCACCCCTCTCTACTGGCAGCCACCAAGGGACAACCCATCAACAATACCATG
 AGAGGTCTCACCATCTTAACCCCAAGCAGAACAGAGATCATGCAGACACCATTTCCTATCGCTCCAGTAC
 GCGGTTCTATCGCTCCCATGCGCCGTTGAGTCCGAGGAAAGACCTCATCTCCACGCTGATCACCATCAT
 GAGGGCCATCATGCCATTCTCACCATGGTGAACATCCCCACCACAAGGACAACGGCACTATCACGGAG
 ATCATATGCATCACCATATCCATCATCGCTCCCAAGTGCTCCCAACTCTCACACAAGTCTCACAGCAC
 ACTTGCCACCTCTCCATCTCATGTGGGATCGAAAAGCACAGCCAGTGGGGCTCGGTACACCTTTGGAGCT
 CGCTCTCAAATTTTCGGCAAAGCTCAGTCCAGGGAGAGCTTGAGAGAATCAGCCTCTTTGAGTGAAGGGG
 AGGATCACGTTGAGAAACGAAAAGGCCAGAGGGCCCAAGAAGGCACACACCGGGAATATCTTCCA
 ATTGCTATGGGAAAAATAAGCCATCTCCTTTTGGGTCTTCCAGCAATGATATTGCACTGACCCAGTCC
 CTGGGCTTTGAGACCTTTATCTTCATCGTGGTCTGCCTCAACACAGTCACTCTTGGCCAGACTTTCA
 CTGAGCTAGAGATCCGAGGTGAATGGTACTTCTGGTCTTGACTCCATCTTCTCCATCTATGTACT
 AGAAGCAGTCTCAAGCTAATTGCCCTGGGCCTGGAGTATTTTTATGACCCATGGAACAACCTGGACTTC
 TTCATCATGGTATGGCAGTGGTGGACTTTGTGCTCCTTCAGATAAACTCGCTCTCATATTCATTCTACA
 ACCACAGCCTGTTCCGGATTCTCAAAGTCTTCAAAGTATGCGGGCCCTGAGGGCCATCCGGGTTCTTCG
 GAGGCTCAGCATCCTGACCAGCCTCCACGAAGTGCCGGGACTCTGAGTGGATCTTACCATCCATCAGC
 GCCATCTCACCCCTCATGTTTACCTGCCTCTTCTCTTCTGTGGTTCTCCGAGCACTGTTTCAGGACT
 CAGACCCCAAGCGCTTCCAGAACATCTTACCACACTCTTACCCTGTTCCACATGCTCACCCCTGGACGA
 CTGGTCCCTCATCTACATAGACAACAGGGCCCAAGGCGCCTGGTACATCATACCGATCCTCATGATTAC
 ATTGTCATCCAGTACTTCTCTCAACCTGGTATTGCTGTCTGGTATGATAACTTCCAGATGGCGT
 TGCTCAAAGGCCTAGAGAAAGTGAAGCTGGAGCAAGCTGCCCGGTTCCATGAGAAGTTGTTGGATGACTC
 TCTGACAGATCTCAACAAGCAGACGCCAATGCACAAATGACCGAGGAGGCCTTGAAGATGCAGCTTATT
 GAGGGAATGTTTGGCAACATGACAGTGAAGCAGCGGGTGTCCACTTCCAGTTTCTGCAGTTGGTGGCAG
 CGGTAGAACAGCATCAACAGAAGTTTCTTCCCAAGCGTACGTATCGATGAGCTTGTGGACATGGCATT
 TGAGGCTGGAGACGACGACTACGGGAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_139301
- Insert Size:** 2061 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_139301.2](#), [NP_647462.1](#)

RefSeq Size: 2061 bp

RefSeq ORF: 2061 bp

Locus ID: 225865

UniProt ID: [Q91ZR5](#)

Cytogenetics: 19 A

Gene Summary: 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 alkalization.[UniProtKB/Swiss-Prot Function]