

Product datasheet for **RN204174**

Catsper2 (NM_001012220) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Catsper2 (NM_001012220) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Catsper2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN204174 representing NM_001012220
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCACATGAACGAGGACATTTACAGCTGCCAGAGCTGATGCTATCCGTTCAAAGCTCATTGACACTT
 TCTCGCTCATAGAGCATTTGACAGGCTTGAGCCAAGCTGTACCAAGGCACACTCTCCGGGAGATACTTGA
 TCCGGCTTGTCAGAAGAACTCATGTTAGGAGATCAGGAGCAGCTAGTGCCTTCTCCATAAGGGCGCGG
 CGTATGGGGCACATTACGCATGCCAGCGGTTGCTGAGCAGACTTCGAGTGCGGTGCGGTGGAAGACCAC
 CTCTTCTTGTGGGCTGGATGGTTCTTGACAGTTCTATCTTCTCGAATTTTCATCATCTCCCTCATCTT
 TCTGAATACCTTTGTGCTGATGGTCGAAATAGAATTGATGAACCCACAAATACGAGTCTGTGGCCATTG
 AAGCTGGCTTTGGAGGTGACAGATTGGTTTATCTTGCTTAGCTTCATTGTAGAGATCCTTCTAATGTGGT
 TGGCCAGCTTTTTCTTCTGGAAGAATGCCTGGAGTGTCTTTGACTTTGTGGTACCATGTTGTCTCT
 GCTTCTGAGTTTGTGGTCTGATAGGCGTCTCTGCGGACTCTGTGTGGTCCAAGTCTAAGGGTCTCT
 CGGGTGCTGAGGTCTCTCAAAGTGTGACAGATTCCCTCAAATTAAGTTATTCTTTGGCTCTCGTCA
 GGGCCCTGAAGAGCATGACATTCCTGTTGATGTTGCTGCTTATCTTCTTCTACGTCTTCGCTGTGGCCGG
 TGTCTACTTCTTCAAAGAATATCCCGTTCAACTATCGAGAATCTGGAGTACAACATGTTCTTCTCGGAC
 CTACTAAATCCCTGGTACAGTGTTCATCCTCTTACCTTGGATCATTGGTATGCAGTACTTCAGGACG
 TCTGGAAGGTGCCAGAAGCTAGCCGTGCTTTAGCAGCATCTATGTATCCTTTGGTTGTTGCTTGGTTC
 CATTATCTTTGAAACATCATAGTAGCCATGATGGTACTAAGTTCAGAATATCCGAAATGAGCTGCAT
 GAGGAGATGACTCACCTGGAGTTCAGTATAAGGCTGACATATCAAGCGACGGATTATCCAGAGGAGAC
 AACAATCTGAGTCACTAAGAGGAACCAAGTCAAGGAAAGTCTCCGAAGACATAACAGAACTTCCGAGGC
 CACTGATGAGGAAAAAGCGAAGCTGAGGAAAGCGAGGAAAGAGAAAAAGCGAGGAAAGAAAAAGTATGTA
 GAGAAAAAGCGATGAAGAGAAAAACGATGAAGAGAAAAAGTATGAAGAGGAAAAACGATGAAGAGAAAAAGT
 ATGTAGAGAAAAAGCGATGAAGAGAAAAACGATGAAGAGAAAAAGGTATACCGAGAAAGTATTCCGGAAG
 AACCTTTGTGGAGAGAAGTTATGCTGAGAGAAGCTTTGCTGGAAGGCTGAAAAAGTAAAAAGTAAAAA
 GAGTTGAAAGAAAAAGGCTACCCGGTCTCTCCCAACTCTTCCATCCCATGATGAAGCCTTTGCAGCCG
 ATGATACTACCTTGAACCTGGACTGGGAGACTCTTGTGCATGAGAACCTGCCTGGGCTAATGGATAT
 GGATCAGGATGACCGTGTGTTGGCCAGAGATTCGCTTTCCGATATTTGAGTACTGAAAGCCTT
 CAGTATAACCTAGAGGAGCGCAAGAGTTGCAAGAATTTGCAGTCAAGCACTGATGAATTTGAAGACA
 AGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001012220

Insert Size: 1755 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_001012220.1](#), [NP_001012220.1](#)

RefSeq Size: 2234 bp

RefSeq ORF: 1755 bp

Locus ID: 366174

UniProt ID: [Q6AXP6](#)

Cytogenetics: 3q35

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 (By similarity).[UniProtKB/Swiss-Prot Function]