

Product datasheet for **SC123099**

CATSPER1 (NM_053054) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER1 (NM_053054) Human Untagged Clone
Tag:	Tag Free
Symbol:	CATSPER1
Synonyms:	CATSPER; SPGF7
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



[View online »](#)

Fully Sequenced ORF:

```

>OriGene sequence for NM_053054 edited
AGTCTGCATTGAGCTTGGCTCAGGAAAGAAGGAAATCCAGGCGGGGCTGTTGGGCCCA
GGTCTTGAGCTCTTTTGGCTCCAGAGTTCCCAGCACAGTCATGGATCAAAACTCAGTGCC
TGAAAAGGCTCAGAAATGAGGCAGACACCAATAACGCAGATAGGTTCTTTCGCTCTCACTC
ATCACCCACACACCAGGCCAGGCCACAGCAGAGCTCACCATTACGAGTTGCACCA
TCACGGCGTGCCCCACCAACGTGGTGAATCTCACACCCTCCGGAGTTCCAAGACTTCCA
CGACCAAGCCTTGTCTCCCATGTCCACCAATCTCACACCACAGCGAGGCACGGAAATCA
CGGCAGAGCCCATGGCCCCACAGGCTTTGGTCTGGCTCCCTCTCAAGGCGCCGTCGCCCTC
CCACCGTTCATACGGTGAGGACTACCATGATGAGCTCCAACGTGATGGCAGGAGGCATCA
TGATGGGTCCCAATACGGTGGGTCCATCAGCAGAGTGACTCCCATTACCATAGGGGGTTC
TCACCATGGCAGACCCCAATATCTCGGTGAGAATTTATCCCACTATTCTCTGGCGTGCC
CCACCACGGTGAGGCTTCCACCATGGTGGTCTACCTCCCCATGGACCCAATCCCTA
CAGTGAGTCTTCCACCACAGCGAGGCTTCCACCTTAGCGGGCTCCAACACGATGAGTC
CCAGCATACCAAGTCCCCACCGTGGCTGGCCCCACCATACCAAGTCCACCACCATGG
CAGGTCCCGTCATCATGAAGCCCACAGCATGGAAGTCTCCTCATCACGGAGAGACCAT
TTCCCCTCATTCTCTGTGGGGTCTACCAGCGTGGGATATCTGACTATCACAGCGAGTA
CCACCAAGGTGATCACACCCAGTGAGTACCACCATGGCGACCATCCCCACCACACACA
GCACCACTACCACCAGACCCACCGGCACCGAGACTACCATCAGCACCAAGACCACCACGG
CGCGTATCATTCCAGTTACCTCCATGGCGACTACGTCCAGAGCACTTCCAACTCTCTAT
CCCACACACATCCCGGAGCCTGATTCACGATGCCCCGGCCCTGCTGTTCTCGTACAGG
AGTCTTCCCCTATCACGTAGCACACCCACGGGGCTCGGCTCACAGCATGACTCGGTCTCTC
CAGCACAATCCGCTCACGTGTCACCAGATGTCCAAAAAGTCCATACCCAGGATATCTC
CACCAAACTTCCAGAAGACTGGGGCAAAGAAGGGAATTTCCAGAAACGCAAAACCGG
CAGGCTCCAGCGACCCGCAAGAAGGGACACTCTACCAATCTTCCAGTGGCTGTGGGA
AAAGCTAACCTTCTCATTACAGGCTTCCGGGAAATGATCCGGAACCTGACCCAATCCTT
GGCCTTTGAAACTTTCATCTTCTCGTTGTCTGCCTCAACACCGTCATGCTGGTGGCCCA
GACCTTGCCTGAAGTCGAGATCCGGGGGAGTGGTACTTCATGGCCTTGGACTCCATATT
CTTCTGCATCTACGTGGTGAAGCCCTGCTCAAGATCATCGCCCTGGGCCTCTCGTACTT
CTTTGACTTCTGGAACAATTTGGACTTCTTATTATGGCCATGGCCGTGCTGGACTTCTT
GCTGATGCAGACCCTCTTCCGCATCTACCACCAAAGCCTCTCCGGATCCTCAAGGT
CTTCAAGAGCCTGCGGGCCCTGAGGGCAATCCGGGTCTCGGAGGCTCAGCTTCTGAC
CAGCGTCCAGGAAGTGACAGGGACCCCTGGGCCAGTCTTGCCGTCCATCGCAGCCATCCT
CATCCTCATGTTTACCTGCCTTCTCCTTCTCCTCGCGGTCTCCGGGCACTGTTCCGCAA
ATCTGACCCCAAGCGCTTCCAGAACATCTTACCACCATCTTACCCTCTTACCTTGTCT
CACGCTGGATGACTGGTCCCTCATCTACATGGACAGCCGTGCCAGGGCGCCTGGTACAT
CATTCCCATCCTCATAATTTACATCATCATCCAGTACTTCATCTTCTCAACCTGGTGAT
TACTGTCTGGTGGATAGCTTCCAGACGGCGCTGTTCAAAGGCCCTTGAGAAAGCGAAGCA
GGAGAGGGCCGCCCGGATCCAAGAGAAGCTGCTGGAAGACTCACTGACGGAGCTCAGAGC
TGCAGAGCCCAAAGAGGTGGCGAGTGAAGGCACCATGCTGAAGCGGCTCATCGAGAAAAA
GTTTGGGACCATGACTGAGAAGCAGCAGGAGCTCCTGTTCCATTACCTGCAGCTGGTGGC
AAGCGTGGAGCAGGAGCAGCAGAAGTTCGGCTCCAGGCAGCCGTGATGAGATTGT
GGACACCACATTTGAGGCTGGAGAAGAGGACTTCAGGAATTGACCCAGGAGGACACCAG
ATACAGACTTCAGCCCCTGGCAGTCTGCCACCTGGGTGCACTGGGACGGGTCCCCAGAT
CTGCTGGAATGATTGTCCGGGCCCTGCAGAGCAGGGGCCCAACAGAGTTTTTTAAACCC
AAAAAAAAAAAAAAAAA
    
```

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_053054 unedited GGGGACTAGGTTTTGTATCCGACTTTATATAGGCGGCCGCATAACTTCGTATAGCATACA TTATACTAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGTC TGCATTGAGCTTGGCTCAGGAAAGAAGGGAAATCCAGGCCGGGCTGTTGGGCCAGGTC TTGAGCTCTTTTGGCTCCAGAGTTCCCAGCACAGTCATGGATCAAACCTCAGTGCCTGAA AAGGCTCAGAATGAGGCAGACACCAATAACGCAGATAGGTTCTTTCGCTCTCACTCATCA CCCCACACCACAGGCCAGGCCACAGCAGAGCTCTCCACCATTACGAGTTGCACCATCAC GGCGTGCCCAACGTTGGTGAATCTCACCACCTCCGGAGTTCCAAGACTTCCACGAC CAAGCCTTGCTCCCATGTCCACCAATCTCACCACCACAGCGAGGCACGGAATCACGGC AGAGCCCATGGCCCCACAGGCTTTGGTCTGGCTCCCTCTCAAGCGCCGTCCTCCAC CGTTCATACGGTGAGGACTACCATGATGAGCTCCAACGTGATGGCAGGAGGCATCATGAT GGGTCCCAATACGGTGGGTTCCATCAGCAGAGTGACTCCCATTACCATAGGGGTCTCAC CATGGCAGACCCAATATCTCGGTGAGAATTTATCCCATTCTCTGGCGTGCCCCAC CACGGTGAGGCTTCCCACCATGGTGGGCTCTACCTCCCCATGGACCAATCCCTACAGT GAGTCCTTCCACCACAGCGAGGCTTCCCACCTTAGCGGGCTCCAACACGATGAGTCCCAG CATCACCAAGTTCCCCACCGTGGCTGGCCCCACCATCACCAGTCCACCACCATGGCAGG TCCCGTCATCATGAAGCCCA
Restriction Sites:	Please inquire
ACCN:	NM_053054
Insert Size:	2601 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:	<ol style="list-style-type: none"> 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:	<u>NM_053054.2</u> , <u>NP_444282.2</u>
RefSeq Size:	2630 bp
RefSeq ORF:	2343 bp
Locus ID:	117144
UniProt ID:	<u>Q8NEC5</u>
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane

Gene Summary:

Calcium ions play a primary role in the regulation of sperm motility. This gene belongs to a family of putative cation channels that are specific to spermatozoa and localize to the flagellum. The protein family features a single repeat with six membrane-spanning segments and a predicted calcium-selective pore region. [provided by RefSeq, Jul 2008]