

Product datasheet for **RC206133**

CATSPER1 (NM_053054) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER1 (NM_053054) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CATSPER1
Synonyms:	CATSPER; SPGF7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206133 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCAAACCTCAGTGCCTGAAAAGGCTCAGAATGAGGCAGACAAAATAATGCAGATAGGTTCTTTC
 GCTCTCACTCATACCCCCACACCACAGGCCAGGCCACAGCAGAGCTCTCCACCATTACGAGTTGCACCA
 TCACGGCGTGCCCCACCAACGTGGTGAATCTCACCACCCTCCGGAGTTCCAAGACTTCCACGACCAAGCC
 TTGTCTCCCATGTCCACCAATCTCACCACCACAGCGAGGCACGGAATCACGTGAGAGCCCATGGCCCCA
 CAGGCTTTGGTCTGGCTCCCTCTCAAGGCGCCGTCCTCCACCCTTCTACGGTGAGGACTACCATGA
 TGAGTCCAACGTGATGGCAGGAGGCATCATGATGGGTCCAATACAGTGGGTTCCATCAGCAGAGTGAC
 TCCCATTACCATAGGGGGTCTCACCATGGCAGACCCCAATATCTCGGTGAGAATTTATCCCCTATTCTCT
 CTGGCGTGCCCCACCACGGTGAGGCTTCCACCATGGTGGTCTACCTCCCCATGGACCAATCCCTA
 CAGTGAGTCTTCCACCACAGCGAGGCTTCCACCTTAGCGGGCTCCAACACGATGAGTCCAGCATCAC
 CAAGTCCCCACCGTGGCTGGCCCCACCATCACCAGTCCACCACCATGGCAGGTCCTGATCATGAAG
 CCCACCAGCATGAAAAGTCTCCTCATCAGGAGAGACCATTTCCCTCATTCTCTGTGGGGTCTACCA
 GCGTGGGATATCTGACTATCACAGCGAGTACCACCAAGGTGATCACCACCCAGTGAGTACCACCATGGC
 GACCATCCCCACACACAGCACCCTACCACCAGACCACCGGACCGAGACTACCATCAGCACAAG
 ACCACCACGGCGGTATCATTCCAGTTACCTCCATGGCGACTACGTCCAGAGCACTTCCAACTCTCTAT
 CCCACACACATCCCGGAGCCTGATTCACGATGCCCCGGCCCTGCTGCTTCTCGTACAGGAGTCTCCCC
 TATCACGTAGCACACCCACGGGGCTCGGCTCACAGCATGACTCGTCTCCAGCACAATCCGCTCACGTG
 TCACCCAGATGTCCAAAAAGTCCATACCCAGGATATCTCCACCAACATTCAGAAGACTGGGGCAAAGA
 AGAAGGGCAATTCAGAAACGCAAAACCGCCGGCTCCAGCGGACCCGCAAGAAGGGACACTCTACCAAT
 CTCTTCCAGTGGCTGTGGAAAAGCTAACCTTCTCATTACGGGCTTCCGGGAAATGATCCGGAACCTGA
 CCCAATCCTTGGCCTTTGAACTTTTCTTCTTCTCGTTGTCTGCCTCAACACCGTCATGCTGGTGGCCCA
 GACCTTCGCTGAAGTCGAGATCCGGGGGAGTGGTACTTCATGGCCTTGGACTCCATATTCTTCTGCATC
 TACGTGGTGAAGCCCTGCTCAAGATCATCGCCCTGGGCTCTCGTACTTCTTGACTTCTGGAACAATT
 TGGACTTCTTATTATGGCCATGGCCGTGCTGGACTTCTTGCTGATGCAGACCCACTCTTCGCCATCTA
 CCACAAAGCCTCTCCGGATCCTCAAGGTCTTCAAGAGCCTGCGGGCCCTGAGGGCAATCCGGTCTCG
 CGGAGGCTCAGCTTCTGACCAGCGTCCAGGAAGTGACAGGGACCCTGGGCCAGTCTTGGCGTCCATCG
 CAGCCATCCTCATCCTCATGTTTACCTGCCTTCTCTCTCCGCGGTCTCCGGGCACTGTTCCGCAA
 ATCTGACCCCAAGCGCTTCCAGAACATTTACCACCATCTTACCCTTCTCACCTTGTCTACGCTGGAT
 GACTGGTCCCTCATCTACATGGACAGCCGTGCCAGGGCGCCTGGTACATCATTCCCATCCTCATAATTT
 ACATCATCATCCAGTACTTATCTTCTCAACCTGGTACTTACTGTCTGGTGGATAGCTTCCAGACGGC
 GCTGTTCAAAGGCCTTGAGAAAGCGAAGCAGGAGAGGGCCCGCGGATCCAAGAGAAGCTGCTGGAAGAC
 TCACTGACGGAGCTCAGAGCTGCAGAGCCAAAGAGGTGGCGAGTGAAGGCACCATGCTGAAGCGGCTCA
 TCGAGAAAAAGTTTGGGACCATGACTGAGAAGCAGCAGGAGCTCTGTTCCATTACCTGCAGCTGGTGGC
 AAGCGTGGAGCAGGAGCAGCAGAAGTTCGCTCCAGGCAGCCGTCATCGATGAGATTGTGGACACCACA
 TTTGAGGCTGGAGAAGGACTTCAGGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206133 protein sequence
Red=Cloning site Green=Tags(s)

MDQNSVPEKAQNEADTNNADRFRRSHSSPPHHRPGHSRALHHYELHHHGVPHQRGESHHPPEFQDFHDQA
LSSHVHQSHHHSEARNHVRAHGPTGFLAPSQGAVPSHRSYGEDYHDELQRDGRRHHDGSGYSGFHQQSD
SHYHRGSHHGRPQYLGENLSHYSSGVPHHGEASHHGGSYLPHGPNPYSESFHHSEASHLSGLQHDESQHH
QVPHRGWPHHHQVHHHGRSRHHEAHQHKGKSPHHGETISPHSSVGSYQRGISDYHSEYHQGDHHPSEYHHG
DHPHHTQHYYHQTHRHRDYHQHDHGHAYHSSYLHGDYVQSTSLSIPHTSRSLIHDAPGPAASRTGVFP
YHVAHPRGSAHSMTRSSSTIRSRVTQMSKKVHTQDISTKHSEDWGKEEQFQKRKTGRLQRTRKKGHSTN
LFQWLWEKLTFLIQGFREMIRNLTQSLAFETFIFFVVCLNTVMLVAQTFAEVEIRGEWYFMALDSIFFCI
YVVEALLKIIALGLSYFFDFWNNLDFIMAMAVLDFLLMQTHSFAIYHQSLFRILKVKSLRALRAIRVL
RRLSFLTSVQEVGTGLGQSLPSIAAILILMFTCLFLFSAVLRALFRKSDPKRFQNIFFTIFLFTLLTLD
DWSLIYMDSRAQGAWYIIPILIIYIIQYFIFLNLVITVLVDSFQTALFKGLEKAKQERAARIQEKLLLED
SLTELAAEPKEVASEGTMKRLIEKKFGTMTEKQELLFHYLQLVASVEQEQQKFRSQAVIDEIVDVT
FEAGEEDFRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_g02.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_053054

ORF Size: 2340 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_053054.4](#)

RefSeq Size: 2634 bp

RefSeq ORF: 2343 bp

Locus ID: 117144

UniProt ID: [Q8NEC5](#)

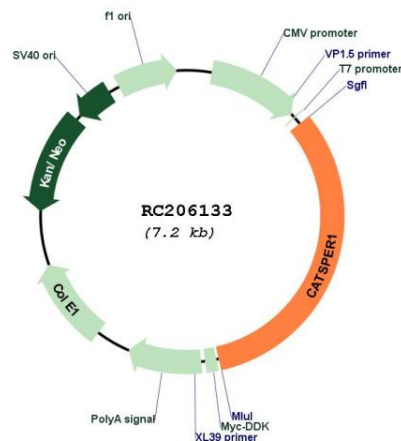
Cytogenetics: 11q13.1

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

MW: 90.2 kDa

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]

Product images:



Circular map for RC206133