

Product datasheet for **RC209404**

CATSPER2 (NM_172095) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER2 (NM_172095) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CATSPER2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209404 representing NM_172095
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCTTACCAACAAGAAGAGCAGATGCAGCTTCCCGAGCTGATGCCATTCGTTACAGTCTCATCG
 ATACTTTCTCTCTCATTGAGCATTTGCAAGGCTTGAGCCAAGCTGTGCCGCGGCACACTATCAGGGAGTT
 ACTTGATCCTTCCCGCCAGAAGAACTTGTATTGGGAGATCAACACCAGCTAGTGCCTTTCTCTATAAAG
 CCTCAGCGTATAGAACAGATTTACATGCCAGAGGCTTTGAGCAGGCTTCATGTGCGCTGCAGTCAGA
 GGCCACCTCTTTCTTTGTGGCCGGATGGGTCCTTGAGTGTCTCTCTTCAAAAACCTTCATCATCTTCT
 GGTCTTTTGAATACGATCATATTGATGGTTGAAATAGAATTGCTGGAATCCACAAATACAAAATATGG
 CCATTGAAGCTGACCTTGAGGTGGCAGCTTGGTTTATCTTGCTATTTTCATCTGGAGATCCTTCTTA
 AGTGGCTATCCAACCTTTCTGTTTTCTGGAAGAGTGCCTGGAATGTCTTGACTTTGTTGTACCATGTT
 GTCCTGTCTCCGAGGTTGTGGTATTGGTAGGGTAACAGGCCAATCGGTGTGGCTTCAGCTTCTGAGG
 ATCTGCCGGGTGCTGAGTCTCTCAAACCTCTGCACAATCCGTCAAATCAAATTAATTTTTGGTCC
 TGGTCAGGGCCCTCAAGAGCATGACCTTCTCTTGATGTTGCTGCTCATCTTCTTCTACATTTTTGCTGT
 GACTGGTGTCTACGTCTTCTCAGAGTACACCCGTTACCTCGTCAGGACCTGGAGTACCATGTGTTCTTC
 TCGGACCTCCCGAATTCCTGGTAACAGTGTTCATTCTCTTACCTTGGATCATTGGTATGCACTGCTTC
 AGGACGCTGGAAGGTGCCTGAAGTCAGTCGCATCTTCAGCAGCATCTATTTTCATCTTTGGTTGTGCT
 TGGCTCCATTATCTTTCGAAGTATCATAGTAGCCATGATGGTTACTAATTTTCAAGTATCAGGAAAGAG
 CTGAATGAGGAGATGGCGCTCGGGAGGTTGAGCTCAAAGTGCATGTTCAAGCGGCAGATCATCCAGA
 GGAGAAAAACATGTACATGAAGCAGTGCAGTCAAGCCATAGCAAAAATAGAGGACAGTTCAAGAGGAGC
 TAGTCAACAAGGAAAGTTGGACTTATCAGAAGTGTCTGAAGTAGAGTCTAATTATGGTGCCACTGAA
 GAGGATTTAATAACATCTGCATCAAAAACAGAAGAGACCTTGCAAAAAAGAGAGAGTACCAGTCTTCT
 CCTGTGCTCCTCCACATCCTCTTCTTCTTCTTCTGAATCCAGATTTTCTGAATCTATTGGTGC
 TTTGGACTGGGAGACTCTGTGCACGAAAATCTGCCCGGGCTAATGGAAATGGATCAGGATGACCGTGT
 TGGCCAGAGACTCACTTCCGATATTTGAGTTGCTAGAAAAGCTTCAGTATAACCTAGAGGAACGTA
 AGAAGTTACAAGAGTTTGCAGTGCAGGCACTGATGAACCTGGAAGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209404 representing NM_172095
 Red=Cloning site Green=Tags(s)

MAAYQEEQMLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKLVLDGQHQLVRFSLK
 PQRIEQISHAQRLLSRLHVRCSQRPLSLWAGWVLECPFKNFIIFLVFLNTIILMVEIELLESTNTKLW
 PLKLTLEVAWFILLIFILEILLKWL SNFSVFWKSAWNVDFVVTML SLLPEVVVLVGVGTGQSVWLQLLR
 ICRVLRSLKLLAQFRQIQIILVLRALKSMTFLLMLLLIFFYIFAVTVGVYVSEYTRSPQDLEYHVFF
 SDLPNSLVTVFILFTLDHWYALLQDVWKVPEVSRIFSSIYFILWLLLSIIFRSIIVAMMVTNFQNIKE
 LNEEMARREVQLKADMFQRQIIQRKNMSHEALTSSHSKIEDSSRGASQQRESLDLSEVSEVESNYGATE
 EDLITSASKTEETLSKKREYQSSSCVSTSSSYSSSESRSFSESIGRLDWETLVHENLPLMEMDQDDR
 WPRDSLFRYFELLEKLQYNLEERKQLQEFQALMNLEDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_172095

ORF Size: 1590 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_172095.4](#)

RefSeq Size: 1947 bp

RefSeq ORF: 1593 bp

Locus ID: 117155

UniProt ID: [Q96P56](#)

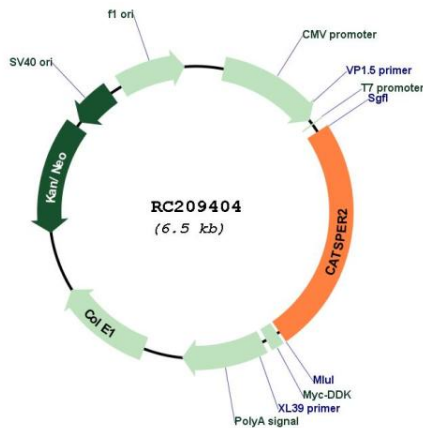
Cytogenetics: 15q15.3

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

MW: 62 kDa

Gene Summary: This gene encodes a member of a family of cation channel proteins that localize to the flagellum of spermatozoa. Defects at this locus causes male infertility. Alternatively spliced transcript variants have been observed at this locus. Readthrough transcription originates upstream of this locus in diphosphoinositol pentakisphosphate kinase 1 pseudogene 1 and is represented by GeneID:110006325. Related pseudogenes are found next to this locus on chromosome 15 and on chromosome 5. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RC209404