

## Product datasheet for RC216311

### CATSPER2 (NM\_172097) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CATSPER2 (NM\_172097) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CATSPER2  
**Synonyms:** MGC33346  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC216311 representing NM\_172097  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGCTTACCAACAAGAAGAGCAGATGCAGCTTCCCCGAGCTGATGCCATTCGTTACAGTCTCATCG  
ATACTTTCTCTCATTGAGCATTGCAAGGCTTGAGCCAAGCTGTGCCGCGGCACACTATCAGGGAGTT  
ACTTGATCCTTCCCGCCAGAAGAACTTGTATTGGGAGATCAACACCAGCTAGTGCCTTTCTATAAAG  
CCTCAGCGTATAGAACAGATTTACATGCCAGAGGCTGTTGAGCAGGCTTCATGTGCGCTGCAGTCAGA  
GGCCACCTCTTTCTTTGTGGCCGGATGGGTCCTTGAGTGTCTCTTCAAAAACCTTCATCATCTTCTCT  
GGTCTTTTTGAATACGATCATATTGATGGTTGAAATAGAATTGCTGGAATCCACAAATACCAAACATGG  
CCATTGAAGCTGACCTTGAGGTTGGCAGCTTGTTTATCTTGCTTATTTTCATCTGGAGATCCTTCTTA  
AGTGGCTATCCAACCTTTCTGTTTTCTGGAAGAGTGCCTGGAATGTCTTTGACTTTGTTGTACCATGTT  
GGTAAGGATAGAGATCCTGAGGGTTCGTTTAGTGGGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC216311 representing NM\_172097  
Red=Cloning site Green=Tags(s)

MAAYQEEQMLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKLVLDQHQLVRFSLK  
PQRIEQISHAQRLLSRLHVRCSQRPLSLWAGWVLECPFKNFIFLVFLNTIILMVEIELLESTNTKLW  
PLKLTLEVAAWFILLIFILEILLKWL SNF SVFWKSAWNVDFVVTMLVRIEILRVRLVG

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_172097

ORF Size: 597 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\\_172097.1](#), [NP\\_742095.1](#)

RefSeq Size: 1678 bp

RefSeq ORF: 599 bp

Locus ID: 117155

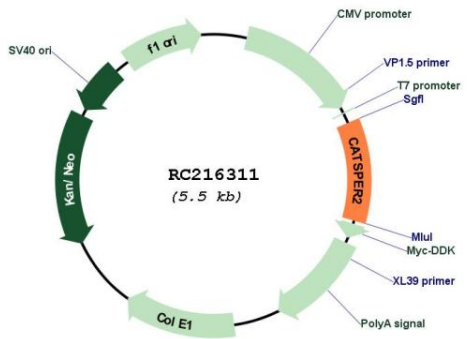
Cytogenetics: 15q15.3

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

**MW:** 23.3 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 RC216311