

Product datasheet for **RC238768**

CATSPER2 (NM_001282310) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER2 (NM_001282310) 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:

>RC238768 representing NM_001282310
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCCTGGGCTCAGACATGGCCGCTTACCAACAAGAAGAGCAGATGCAGCTTCCCCGAGCTGATGCCA
 TTCGTTACAGTCTCATCGATACTTTCTCTCTCATTGAGCATTGCAAGGCTTGAGCCAAGCTGTGCCGCG
 GCACACTATCAGGGAGTTACTTGATCCTTCCCGCCAGAAGAACTTGTATTGGGAGATCAACACCAGCTA
 GTGCGTTTCTCTATAAAGCCTCAGCGTATAGAACAGATTTACATGCCAGAGGCTGTTGAGCAGGCTTC
 ATGTGCGTGCAGTCAGAGGCCACCTCTTTCTTTGGGCGGATGGTCTTGTGAGTGCCTCTCTTCAA
 AAACCTCATCATCTTCTGGTCTTTTGAATACGATCATATTGATGGTTGAAATAGAATTGCTGGAATCC
 ACAATAACAACTATGGCCATTGAAGCTGACCTTGGAGGTGGCAGCTTGGTTTATCTTGCTATTTTCA
 TCCTGGAGATCCTTCTAAGTGGCTATCCAACCTTTCTGTTTTCTGGAAGAGTGCCTGGAATGTCTTTGA
 CTTTGTGTTACCATGTTGTCCCTGCTCCCGAGGTTGTGGTATTGGTAGGGGTAACAGGCCAATCGGTG
 TGCTTACAGTTCGAGGATCTGCCGGGTGCTGAGGTCTCTCAAACCTCCTTGACAATTCGGTCAAATTC
 AAATTATTATTTGGTCTGGTCAGGGCCCTCAAGAGCATGACCTTCTCTTGATGTTGCTGCTCATCTT
 CTCTACATTTTGTGTGACTGGTGTCTACGTCTTTCAGAGTACACCCGTTACCTCGTCAGGACCTG
 GAGTACCATGTGTTCTTCTCGGACCTCCCGAATCCCTGGTAACAGTGTTCATTCTTTCACCTGGATC
 ATTGGTATGCACTGCTTCCAGGACGTCTGGAAGGTGCTGAAGTCACTCGCATCTTCCAGCAGCATCTATT
 CATCCTTTGGTTGTTGCTGGCTCCATTATCTTTCGAAGTATCATAGTAGCCATGATGGTACTAACTTT
 CAGAATATCAGGAAAGAGCTGAATGAGGAGATGGCGCGTCGGGAGGTTCCAGCTCAAAGCTGACATGTTCA
 AGCGGCAGATCATCCAGAGGAGAAAAAACAATGTCACATGAAGCACTGACGTCAAGCCATAGCAAAATAGA
 GGACAGAGGAGCTAGTCAACAAAAGGAAAGTTTGGACTTATCAGAAGTGTCTGAAGTAGAGTCTAATTAT
 GGTGCCACTGAAGAGGATTTAATAACATCTGCATCAAAAACAGAAGAGACCTTGTCAAAAAAGAGAGAGT
 ACCAGTCTTCTCTGTCTCCTCCACATCCTCTTCTTCTTCTCTCTGAATCCAGATTTTCTGA
 ATCTATTGGTCGTTTGGACTGGGAGACTCTGTGCACGAAAATCTGCCCGGGCTAATGGAATGGATCAG
 GATGACCGTGTGGCCAGAGACTCACTCTCCGATATTTGAGTTGCTAGAAAAGCTTCAGTATAACC
 TAGAGGAACGTAAGAAGTTACAAGAGTTTGCAGTGCAGGCACTGATGAACCTGGAAGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238768 representing NM_001282310
 Red=Cloning site Green=Tags(s)

MVLGSDMAAYQEEQMLPRADAIRSLIDTFSLIEHLQGLSQA VPRHTIRELLDPSRQKLVLDGQHQL
 VRF SIKPQRIEQISHAQRLLSRLHVRCSQRPPLSLWAGWVLECP LFKNF IIFLVFLNTIILMVEIELLES
 TNTKLWPLKLTLEVAAWFILLIFILEILLKWL SNF SVFWKSAWNVDFVVTML SLLPEVVVLVGV TGQSV
 WLQLLRICRVLRSLKLLAQFRQIQI IILVLRALKSMTFLLMLL IFFYIFAVTGVYVFSEYTRSPRQDL
 EYHVFFSDL PNSLVTVF ILFTLDHWYALLQDVWKVPEVSRIFSS IYF ILWLLGSIIFRSIIVAMMVTNF
 QNIRKELNEEMARREVQLKADMFKRQIIQR RNMSHEALTSSHSKIEDRGASQQRESLDLSEVSEVESNY
 GATEEDLITSASKTEETLSKKREYQSSSCVSS TSSSYSSSES RFSSESIGRLDWE TLVHENLPGLMEMDQ
 DDRVWPRDSLFRYFELLEKLQYNLEERK LQEF AVQALMNLEDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001282310

ORF Size: 1602 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_001282310.2](#)

RefSeq Size: 1755 bp

RefSeq ORF: 1605 bp

Locus ID: 117155

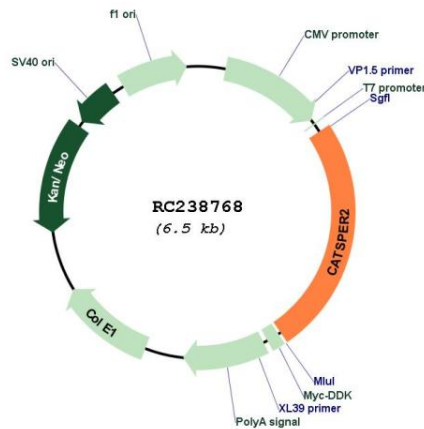
Cytogenetics: 15q15.3

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

MW: 62.9 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 RC238768