

Product datasheet for **SC336662**

CATSPER2 (NM_001282310) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER2 (NM_001282310) Human Untagged Clone
Tag:	Tag Free
Symbol:	CATSPER2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC336662 representing NM_001282310.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTCCTGGGCTCAGACATGGCCGCTTACCAACAAGAAGAGCAGATGCAGCTTCCCCGAGCTGATGCC
ATTCGTTACAGTCTCATCGATACTTTCTCTCATTGAGCATTGCAAGGCTTGAGCCAAGCTGTGCCG
CGGCACACTATCAGGGAGTTACTTGATCCTTCCGCCAGAAGAACTTGTATTGGGAGATCAACACCAG
CTAGTGCCTTTCTCTATAAAGCCTCAGCGTATAGAACAGATTTACATGCCAGAGGCTGTTGAGCAGG
CTTCATGTGCGCTGCAGTCAGAGGCCACCTCTTTCTTTGTGGCCGGATGGGTCCTTGAGTGCCTCTC
TTCAAAAACCTTCATCATCTTCTGGTCTTTTTGAATACGATCATATTGATGGTTGAAATAGAATTGCTG
GAATCCACAAATACCAAATATGGCCATTGAAGCTGACCTTGGAGGTGGCAGCTTGGTTTATCTTGCTT
ATTTTCATCCTGGAGATCCTTCTAAGTGGCTATCCAACCTTTCTGTTTTCTGGAAGAGTGCCTGGAA
GTCTTTGACTTTGTTGTTACCATGTTGCCTGCTTCCGAGGTTGTGGTATTGGTAGGGGTAACAGGC
CAATCGGTGTGGCTTCACTTCTGAGGATCTGCCGGGTGCTGAGGTCTCTCAAACCTTGCACAATTC
CGTCAAATTCAAATTATTATTTGGTCTGGTCAGGGCCCTCAAGAGCATGACCTTCCTCTTGATGTTG
CTGCTCATCTTCTTCTACATTTTGTGTGACTGGTGTCTACGTCTTCTCAGAGTACACCCGTTACCT
CGTCAGGACCTGGAGTACCATGTGTTCTTCTCGGACCTCCCGAATCCCTGGTAACAGTGTTCATTCTC
TTCACCTTGGATCATTGGTATGCACTGCTTCCAGGACGCTGGAAGGTGCCTGAAGTCAGTCGCATCTTC
AGCAGCATCTATTTATCCTTTGGTGTGTTGCTTGGCTCCATTATCTTTCGAAGTATCATAGTAGCCATG
ATGGTTACTAACTTTTCAAGATATCAGGAAAGAGCTGAATGAGGAGATGGCGCGTCGGGAGGTTCAAGTC
AAAGCTGACATGTTCAAGCGGCAGATCATCCAGAGGAGAAAAACATGTCACATGAAGCACTGACGTCA
AGCCATAGCAAAATAGAGGACAGAGGAGCTAGTCAACAAAGGAAAGTTTGGACTTATCAGAAGTGTCT
GAAGTAGAGTCTAATTATGGTGCCACTGAAGAGGATTTAATAACATCTGCATCAAAAACAGAAGAGACC
TTGTCAAAAAGAGAGAGTACCAGTCTTCTCCTGTGTCTCCTCCACATCCTTCTTCTTCTTCTCT
TCTGAATCCAGATTTTCTGAATCTATTGGTCGTTTGGACTGGGAGACTCTGTGCACGAAAATCTGCC
GGGCTAATGGAAATGGATCAGGATGACCGTGTGGCCAGAGACTCACTCTCCGATATTTGAGTTG
CTAGAAAAGCTTCAAGTAACTAGAGGAACGTAAGAAGTTACAAGAGTTGAGTGCAGGCACTGATG
AACTTGAAGACAAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001282310

Insert Size: 1605 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:

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_001282310.1](#)

RefSeq Size: 1755 bp

RefSeq ORF: 1605 bp

Locus ID: 117155

Cytogenetics: 15q15.3

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

MW: 62.5 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]

Transcript Variant: This variant (5) differs in the 5' region and initiates translation at an alternate start codon, and uses an alternate in-frame splice site in the 3' coding region, compared to variant 2. The encoded isoform (5) has a distinct N-terminus and is longer than isoform 2. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.