

Product datasheet for **SC322698**

CATSPER2 (NM_172095) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER2 (NM_172095) Human Untagged Clone
Tag:	Tag Free
Symbol:	CATSPER2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322698
 CGTTGCTCCGCATGGTCTGGGCTCAGACATGGCCGCTTACCAACAAGAAGAGCAGATGC
 AGCTTCCCCGAGCTGATGCCATTCGTTACGTCTCATCGATACTTTCTCTCATTGAGC
 ATTTGCAAGGCTTGAGCCAAGCTGTGCCGCGGCACACTATCAGGGAGTTACTTGTACCTT
 CCCGCCAGAAGAACTTGTATTGGGAGATCAACACCAGCTAGTGCCTTTCTATAAAGC
 CTCAGCGTATAGAACAGATTTACATGCCAGAGGCTGTTGAGCAGGCTTCATGTGCGCT
 GCAGTCAGAGGCCACCTCTTTCTTTGGGCGGATGGGTCTTGAGTGCCTCTCTTCA
 AAAACTTCATCATCTTCTGGTCTTTTTGAATACGATCATATTGATGGTTGAAATAGAAT
 TGCTGGAATCCACAAATACCAAATATGGCCATTGAAGCTGACCTTGGAGGTGGCAGCTT
 GGTTTATCTTGCTTATTTTCATCCTGGAGATCCTTCTTAAGTGGCTATCCAACCTTTCTG
 TTTTCTGGAAGAGTGCCTGGAATGTCTTTGACTTTGTTGTTACCATGTTGTCCTGCTTC
 CCGAGGTTGTGGTATTGGTAGGGGTAACAGGCCAATCGGTGTGGCTTCAGCTTCTGAGGA
 TCTGCCGGGTGCTGAGGTCTCTCAAACCTTGCACAATCCGTCAAATCAAATTATTA
 TTTTGGTCTGGTCAGGGCCCTCAAGAGCATGACCTTCTCTGATGTTGCTGCTCATCT
 TCTTCTACATTTTGTGTGACTGGTGTCTACGTCTTCTCAGAGTACACCCGTTACCTC
 GTCAGGACCTGGAGTACCATGTGTTCTTCTCGGACCTCCCGAATCCCTGGTAACAGTGT
 TCATTCTTTCACCTTGGATCATTGGTATGCACTGCTTACAGACGCTTGGAGGTGCCTG
 AAGTCAGTCGCATCTTCAGCAGCATCTATTTATCCTTTGGTTGTTGCTTGGCTCCATTA
 TCTTTGCAAGTATCATAGTAGCCATGATGGTTACTAACTTTTCAAGTATCAGGAAAGAGC
 TGAATGAGGAGATGGCGCGTCCGGAGGTTTCAAGCTGACATGTTCAAGCGGCAGAG
 TCATCCAGAGGAGAAAAACATGTCACATGAAGCACTGACGTCAAGCCATAGCAAATAG
 AGGACAGAGGAGTAGTCAACAAAGGAAAGTTTGGACTTATCAGAAAGTGTCTGAAGTAG
 AGTCTAATTATGGTGCCTGACTGAAGAGGATTTAATAACATCTGCATCAAAAACAGAAGAGA
 CCTTGTCAAAAAAGAGAGAGTACCAGTCTTCTCCTGTGTCTCCTCCACATCCTCTTCT
 ATTCTTCTCTTGAATCCAGATTTTCTGAATCTATTGGTCTTTGGACTGGGAGACTC
 TTGTGCACGAAAACTGCCCGGGCTAATGGAAATGGATCAGGATGACCGTGTGGCCCA
 GAGACTACTCTTCCGATATTTTGGATTGCTAGAAAAGCTTCAAGTATAACCTAGAGGAAC
 GTAAGAAGTTACAAGAGTTTGCAGTGCAGGCACTGATGAACCTGGAAGACAAGTAAAGCA
 ATGGATGGCTTCAATATCCTTGGGCCAGCAAAAGATAATGAAGGGAATTGTTGGAATA
 GAGAATTGAAAAATAAACATTCAGATAGAACAATGTCTGTTCAATAAAATAAAAAGTA
 TAAGTGTCTAGGCCAAAAA
 AA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_172095
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_172095.1](#), [NP_742093.1](#)

RefSeq Size: 1948 bp

RefSeq ORF: 1593 bp

Locus ID: 117155

UniProt ID: [Q96P56](#)

Cytogenetics: 15q15.3

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

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 (2) is the reference variant and encodes 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.