

Product datasheet for **SC310631**

CATSPER2 (NM_172097) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER2 (NM_172097) Human Untagged Clone
Tag:	Tag Free
Symbol:	CATSPER2
Synonyms:	MGC33346
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_172097, the custom clone sequence may differ by one or more nucleotides ATGGCCGCTTACCAACAAGAAGAGCAGATGCAGCTTCCCCGAGCTGATGCCATTCGTTCA CGTCTCATCGATACTTTCTCTCATTGAGCATTGCAAGGCTTGAGCCAAGCTGTGCCG CGGCACACTATCAGGGAGTTACTTGATCCTTCCCCGCCAGAAGAACTTGTATTGGGAGAT CAACACCAGCTAGTGCCTTTCTCTATAAAGCCTCAGCGTATAGAACAGATTTACATGCC CAGAGGCTGTTGAGCAGGCTTCATGTGCGCTGCAGTCAGAGGCCACCTCTTCTTTGTGG GCCGGATGGGTCCTTGAGTGCCTCTCTTCAAAAACCTTCATCATCTTCTGGTCTTTTTG AATACGATCATATTGATGGTTGAAATAGAATTGCTGGAATCCACAAATACCAAATATGG CCATTGAAGCTGACCTTGAGGTGGCAGCTTGGTTTATCTTGCTTATTTTCATCCTGGAG ATCCTTCTTAAGTGGCTATCCAACCTTTCTGTTTTCTGGAAGAGTGCCTGGAATGCTTT GACTTTGTTGTTACCATGTTGGTAAGGATAGAGATCCTGAGGGTTCGTTTAGTGGGATGA
Restriction Sites:	Please inquire
ACCN:	NM_172097
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).



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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: 600 bp

Locus ID: 117155

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 (4) differs in both UTR's and the coding region but maintains the reading frame, compared to variant 5. This results in a protein that is shorter at both the N- and C-termini, compared to isoform 5.