OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC111509

CATSPER2 (NM_054020) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER2 (NM_054020) Human Untagged Clone
Tag:	Tag Free
Symbol:	CATSPER2
Synonyms:	MGC33346
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_054020, the custom clone sequence may differ by one or more nucleotides

ATGGCCGCTTACCAACAAGAAGAGCAGATGCAGCTTCCCCGAGCTGATGCCATTCGTTCACGTCTCATCG
ATACTTTCTCTCTCATTGAGCATTTGCAAGGCTTGAGCCAAGCTGTGCCGCGGCACACTATCAGGGAGTT
ACTTGATCCTTCCCGCCAGAAGAAACTTGTATTGGGAGATCAACACCAGCTAGTGCGTTTCTCTATAAAG
CCTCAGCGTATAGAACAGATTTCACATGCCCAGAGGCTGTTGAGCAGGCTTCATGTGCGCTGCAGTCAGA
GGCCACCTCTTTCTTTGTGGGCCGGATGGGTCCTTGAGTGTCCTCTCTTCAAAAACTTCATCATCTTCCT
GGTCTTTTTGAATACGATCATATTGATGGTTGAAATAGAATTGCTGGAATCCACAAATACCAAACTATGG
CCATTGAAGCTGACCTTGGAGGTGGCAGCTTGGTTTATCTTGCTTATTTTCATCCTGGAGATCCTTCTTA
AGTGGCTATCCAACTTTTCTGTTTTCTGGAAGAGTGCCTGGAATGTCTTTGACTTTGTTGTTACCATGTT
GTCCCTGCTTCCCGAGGTTGTGGTATTGGTAGGGGTAACAGGCCAATCGGTGTGGCTTCAGCTTCTGAGG
ATCTGCCGGGTGCTGAGGTCTCTCAAACTCCTTGCACAATTCCGTCAAATTCAAATTATTATTTTGGTCC
TGGTCAGGGCCCTCAAGAGCATGACCTTCCTCTTGATGTTGCTGCTCATCTTCTTCTACATTTTTGCTGT
GACTGGTGTCTACGTCTTCTCAGAGTACACCCGTTCACCTCGTCAGGACCTGGAGTACCATGTGTTCTTC
TCGGACCTCCCGAATTCCCTGGTAACAGTGTTCATTCTCTTCACCTTGGATCATTGGTATGCACTGCTTC
AGGACGTCTGGAAGGTGCCTGAAGTCAGTCGCATCTTCAGCAGCATCTATTTCATCCTTTGGTTGTTGCT
TGGCTCCATTATCTTTCGAAGTATCATAGTAGCCATGATGGTTACTAACTTTCAGAATATCAGGAAAGAG
CTGAATGAGGAGATGGCGCGTCGGGAGGTTCAGCTCAAAGCTGACATGTTCAAGCGGCAGATCATCCAGA
GGAGAAAAAACATGTCACATGAAGCACTGACGTCAAGCCATAGCAAAATAGAGGACAGAGGAGCTAGTCA
ACAAAGGGAAAGTTTGGACTTATCAGAAGTGTCTGAAGTAGAGTCTAATTATGGTGCCACTGAAGAGGAT
TTAATAACATCTGCATCAAAAACAGAAGAGACCTTGTCAAAAAAGAGAGAGTACCAGTCTTCCTCCTGTG
TCTCCTCCACATCCTCTTCCTATTCTTCCTCTTCTGAATCCAGATTTTCTGAATCTATTGGTCGTTTGGA
CTGGGAGACTCTTGTGCACGAAAATCTGCCCGGGCTAATGGAAATGGATCAGGATGACCGTGTTTGGCCC
AGAGACTCACTCTTCCGATATTTTGAGTTGCTAGAAAAGCTTCAGTATAACCTAGAGGAACGTAAGAAGT
TACAAGAGTTTGCAGTGCAGGCACTGATGAACTTGGAAGACAAGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_054020 unedited
ATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGCCGAAAGCTGGTTCCATGGAGG
TACTTTCTGAGACTTCATCCTCGAGGCCTGGTGGCTACCGGCTCTTTTCATCTTCACGGC
CACCCACAGAAATGAAGCAGAGTGGCCTAGGCTCACAGTGCACAGGGCTGTTCAGCACCA
CAGTGCTGGGTGGCTCCTCCAGTGCCCCGAATCTTCAGGACTACGCCCGCAGCCATGGCA
AAAAGCTACCACCTGCCAGTCTGAAGCACCGAGATGCAGACATGGCCGCTTACCAACAAG
AAGAGCAGATGCAGCTTCCCCGAGCTGATGCCATTCGTTCACGTCTCATCGATACTTTCT
CTCTCATTGAGCATTTGCAAGGCTTGAGCCAAGCTGTGCCGCGGCACACTATCAGGGAGT
TACTTGATCCTTCCCGCCAGAAGAAACTTGTATTGGGAGATCAACACCAGCTAGTGCGTT
TCTCTATAAAGCCTCAGCGTATAGAACAGATTTCACATGCCCAGAGGCTGTTGAGCAGGC
TTCATGTGCGCTGCAGTCAGAGGCCACCTCTTTCTTTGTGGGCCGGATGGGTCCTTGAGT
GTCCTCTCTTCAAAAACTTCATCATCTTCCTGGTCTTTNTGAATACGATCATATTGATGG
TTGAAATAGAATTGCTGGAATCCACAAATACCAAACTATGGCCATTGAAGCTGACCTTGG
AGGTGGCAGCTTGGTTTATCTTGCTTATTNTCATCCTGGAGATCCTTCTTAGTGGCTATC
CAACTTTTTCTGTTTCTGGAAGATGCCTGNAATGTCNTTGACTNTGTTGNTACCATGNTG
GNTAAGGATAGAGATCCCTGGGGTNTCGTTTTAGTGGGATGAAGAATGTGCCCCTAGTGA
AATCGAAGAACCAGTTNNACATGATATAGGAAGAACANAATTNACTNNACTNCTTNCTTN
TGAT

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_054020 unedited
NAATTACTGTGNCCGCGCCCGCTTACTANGATCGAGTTTTTTCTTTTTTTTTTTTGACAC
TTATACTTTTTAATTTTAATGAACAGACATTGTTCTATCTGAATGTTTATATTTTCAATT
CTCTATTTCCAACAATTCCCTTCATTATCTTTTGCTGGGCCCAAGGATATTGAAGCCATC
CATTGCTTTACTTGTCTTCCAAGTTCATCAGTGCCTGCACTGCAAACTCTTGTAACTTCT
TACGTTCCTCTAGGTTATACTGAAGCTTTTCTAGCAACTCAAAATATCGGAAGAGTGAGT
CTCTGGGCCAAACACGGTCATCCTGATCCATTTCCATTAGCCCGGGCAGATTTTCGTGCA
CAAGAGTCTCCCAGTCCAAACGACCAATAGATTCAGAAAATCTGGATTCAGAAGAGGAAG
AATAGGAAGAGGATGTGGAGGAGACACAGGAGGAAGACTGGTACTCTCTCTTTTTTGACA
AGGTCTCTTCTGTTTTTGATGCAGATGTTATTAAATCCTCTTCAGTGGCACCATAATTAG
ACTCTACTTCAGACACTTCTGATAAGTCCAAACTTTCCCTTTGTTGACTAGCTCCTCTTG
AACTTTTCAATGAGGTCACCGTGACTACCCTGTTTAAAACTACAACCCATCTGCAGCTGG
GCACGATGGCTCACACCTGCAATCCCAACACTTTTGGAGGCTGAGGCGGGCGGAGTGCCC
GAGCTCAGGAGTCCGAGACCAGCCCGGGCAACATGGCGAAACCCCGTCTCTACTGTCCTC
TATTTTGCTATGGCTTGACGTCAGTGCTTCATGTGACATGTTTTTTCTCCCATCATGGCT
ACTATGATACTTCGAAAGATAATGGACCANAGCACACCANANGATGAAAANATGCTGCTG
AAGAGCGACTGACTA
```

Restriction Sites: NotI-NotI

ACCN: NM_054020

Insert Size: 2700 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_054020.2, NP_473361.1

RefSeq Size: 1942 bp

RefSeq ORF: 1587 bp

Locus ID: 117155

UniProt ID: Q96P56

Cytogenetics: 15q15.3

Domains: ion_trans

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 (1) contains a distinct 5' UTR and lacks a portion of the 5' coding region compared to variant 5. The resulting isoform (1) has a shorter N-terminus compared to isoform 5. Variants 1 and 6 encode the same isoform.