

Product datasheet for **RG238732**

CATSPER2 (NM_001282309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER2 (NM_001282309) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CATSPER2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238732 representing NM_001282309.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCGCTTACCAACAAGAAGAGCAGATGCAGCTTCCCCGAGCTGATGCCATTCGTTACGTCCTCATC
GATACTTTCTCTCATTGAGCATTGCAAGGCTTGAGCCAAGCTGTGCCGCGGCACACTATCAGGGAG
TTACTTGATCCTTCCCGCCAGAAGAACTTGATTGGGAGATCAACACCAGCTAGTGC GTTTCTCTATA
AAGCCTCAGCGTATAGAACAGATTTTACATGCCAGAGGCTGTTGAGCAGGCTTCATGTGCGCTGCAGT
CAGAGGCCACCTCTTTCTTTGTGGGCCGGATGGGTCTTGAGTGTCTCTCTTCAAAAACTTCATCATC
TTCCTGGTCTTTTGAATACGATCATATTGATGGTTGAAATAGAATTGCTGGAATCCACAAATACCAAA
CTATGGCCATTGAAGCTGACCTTGGAGGTGCCAGCTTGGTTTATCTTGCTATTTTCATCTGGAGATC
CTTCTTAAGTGGCTATCCAACCTTTCTGTTTTCTGGAAGAGTGCCTGGAATGTCTTTGACTTTGTTGT
ACCATGTTGTCCCTGCTCCCGAGGTTGTGGTATTGGTAGGGTAACAGGCCAATCGGTGTGGCTTCAG
CTTCTGAGGATCTGCCGGGTGCTGAGGTCTCTCAAACCTTGCACAATCCGTCAAATTCAAATTATT
ATTTTGGTCTGTGTCAGGGCCCTCAAGAGCATGACCTTCCTCTTGATGTTGCTGCTCATCTTCTTCTAC
ATTTTGTGCTGACTGGTGTCTACGTCTTCTCAGAGTACACCCGTTACCTCGTCAGGACCTGGAGTAC
CATGTGTTCTTCTCGGACCTCCCGAATTCCTGGTAACAGTGTTCATTCTTTCACCTTGGATCATTGG
TATGCACTGCTTCAGGACGTCTGGAAGGTGCCTGAAGTCACTCGCATCTTCAGCAGCATCTATTTTCATC
CTTTGGTTGTTGGCTTCCATTATCTTTGCAAGTATCATAGTACCATGATGGTTACTAACTTTCAG
AATATCAGGAAAGAGCTGAATGAGGAGATGGCGCGTCGGGAGGTTAGCTCAAAGCTGACATGTTCAAG
CGGCAGATCATCCAGAGGAGAAAAACATGTACATGAAGCACTGACGTCAAGCCATAGCAAAATAGAG
GACAGAGGAGCTAGTCAACAAAGGAAAGTTTGGACTTATCAGAAGTGTCTGAAGTGAAGTCAATTAT
GGTGCCACTGAAGAGGATTTAATAACATCTGCATCAAAAAACAGAAGAGACCTTGTCAAAAAAGAGAGAG
TACCAGTCTTCTCTGTGTCTCTCCACATCCTCTTCTTCTTCTTCTGAAATCCAGATTTTCT
GAATCTATTGGTCGTTTGGACTGGGAGACTCTTGTGCACGAAAATCTGCCCGGGTAATGAAATGGAT
CAGGATGACCGTGTGGCCAGAGACTCACTTCCGATATTTTGGAGTGTAGAAAAGCTTCAGTAT
AACCTAGAGGAACGTAAGAAGTTACAAGAGTTGCAAGTGCAGGCACTGATGAACTTGAAGACAAG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG238732
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAAYQQEEQMLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKLLVLGDQHLVRFSL
KPQRIEQISHAQRLLSRLHVRCSQRPPLSLWAGWVLECLFKNFIIIFLVFLNTIILMVEIELLESTNK
LWPLKLTLEVAWFILLIFILEILLKWSNFSVFWKSAWNVDFVVTMLSLLPEVVVLVGVTGQSVWLQ
LLRICRVLRSLLKLLAQFRQIQIILVLVRLKSMFTLLMLLIIFFYIFAVTGYYVFSEYTRSPRQDLEY
HVFFSDLPNSLVTVFIFLFDLHWYALLQDVWVPEVSRIFSSYIFLWLLLSIIIFRSIIIVAMMVTNFQ
NIRKELNEEMARREVQLKADMFKRQIIQRKNMSHEALTSSESKIEDRGASQQRESLDLSEVSEVESNY
GATEEDLITSASKTEETLSKKREYQSSSCVSSSTSSSYSSSESSESRFSESIGRLDWETLVHENLPLMEMD
QDDRVWRPDSLFRYFELLEKLQYNLEERKLLQEFVQALMNLEDK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERY
```

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001282309

ORF Size: 1584 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).

RefSeq: [NM_001282309.3](#)

RefSeq Size: 1840 bp

RefSeq ORF: 1587 bp

Locus ID: 117155

UniProt ID: [Q96P56](#)

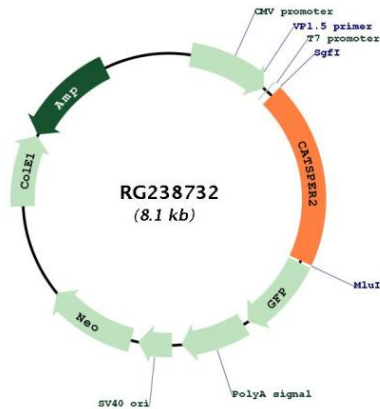
Cytogenetics: 15q15.3

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

MW: 61.9 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 RG238732