

Product datasheet for **RG238768**

CATSPER2 (NM_001282310) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER2 (NM_001282310) 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:

>RG238768 representing NM_001282310.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTCCTGGGCTCAGACATGGCCGCTTACCAACAAGAAGAGCAGATGCAGCTTCCCCGAGCTGATGCC
ATTCGTTACGTCTCATGATACTTTCTCTCATTGAGCATTGCAAGGCTTGAGCCAAGCTGTGCCG
CGGCACACTATCAGGGAGTTACTTGATCCTTCCGCCAGAAGAACTTGTATTGGGAGATCAACACCAG
CTAGTGCCTTTCTATAAAGCCTCAGCGTATAGAACAGATTTACATGCCAGAGGCTGTTGAGCAGG
CTTCATGTGCGCTGCAGTCAGAGGCCACCTCTTTCTTTGTGGCCGGATGGGTCCTTGAGTGCCTCTC
TTCAAAAACCTTCATCATCTTCTGGTCTTTTTGAATACGATCATATTGATGGTTGAAATAGAATTGCTG
GAATCCACAAATACAAACTATGGCCATTGAAGCTGACCTTGGAGGTGGCAGCTTGGTTTATCTTGCTT
ATTTTCATCCTGGAGATCCTTCTAAGTGGCTATCCAACCTTTCTGTTTTCTGGAAGAGTGCCTGGAA
GTCTTTGACTTTGTTGTTACCATGTTGCCTGCTTCCGAGGTTGTGGTATTGGTAGGGGTAACAGGC
CAATCGGTGTGGCTTCACTTCTGAGGATCTGCCGGGTGCTGAGGTCTCTCAAACCTTGCACAATTC
CGTCAAATTCAAATTATATTTTGGTCTGGTCAGGGCCCTCAAGAGCATGACCTTCTCTTGATGTTG
CTGCTCATCTTCTTCTACATTTTGTGTGACTGGTGTCTACGTCTTCTCAGAGTACACCCGTTACCT
CGTCAGGACCTGGAGTACCATGTGTTCTTCTCGGACCTCCCGAATCCCTGGTAACAGTGTTCATTCTC
TTCACCTTGGATCATTGGTATGCACTGCTTCCAGGACGTCTGGAAGGTGCCTGAAGTCAGTCGCATCTT
AGCAGCATCTATTTATCCTTTGGTTGTTGCTTGGCTCCATTATCTTTCGAAGTATCATAGTAGCCATG
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AAAGCTGACATGTTCAAGCGGCAGATCATCCAGAGGAGAAAAACATGTCACATGAAGCACTGACGTC
AGCCATAGCAAAAATAGAGGACAGAGGAGCTAGTCAACAAAGGGAAAGTTTGACTTATCAGAAGTGTCT
GAAGTAGAGTCTAATTATGGTGCCACTGAAGAGGATTTAATAACATCTGCATCAAAAACAGAAGAGACC
TTGTCAAAAAGAGAGAGTACCAGTCTTCTCCTGTGTCTCCTCCACATCTCTTCTTCTTCTCTCT
TCTGAATCCAGATTTTCTGAATCTATTGGTCGTTTGGACTGGGAGACTCTGTGCACGAAAATCTGCC
GGGCTAATGGAAATGGATCAGGATGACCGTGTGGCCAGAGACTCACTCTCCGATATTTGAGTTG
CTAGAAAAGCTTCAAGTAACTAGAGGAACGTAAGAAGTTACAAGAGTTGAGTGCAGGCACTGATG
AAGTTGGAAGACAAG
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC

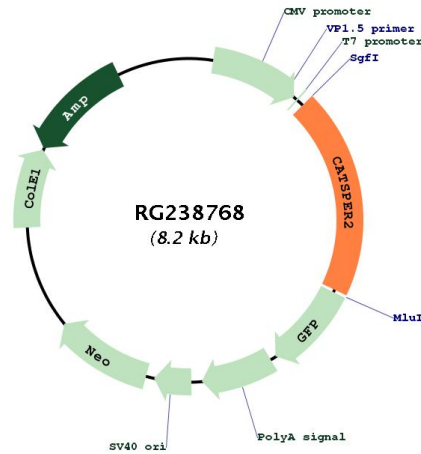
Protein Sequence:

>Peptide sequence encoded by RG238768
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MVLGSDMAAYQQEEQMQLPRADAIRSRLIDTFLSLIEHLQGLSQAVPRHTIRELLDPSRQKLVLDGQHQ
LVRFSIKQRIEQISHAQRLSRLHVRCSQRPPSLWAGWVLECPFKNFIIFLVFLNTIILMVEIELL
ESTNTKLWPLKLTLEVAWFILLIFILEILLKWL SNFVFWKSAWNVDFVVTML SLLPEVVVLVGVG
QSVWLQLLRICRVLRSLLKLAQFRQIQI IILVLRALKSMTFLMLLLIFFYIFAVTGVYVFSEYTRSP
RQDLEYHVFFSDL P NSLVTVFILFTLDHWYALLQDVWKVPEVSRIFSSIFYILWLLLSIIIFRSIIVAM
MVTN FQIRKELNEEMARREVQLKADMFKRQIIQRKNMSHEAL TSSHSKIEDRGASQQRESLDLSEVS
EVESNYGATEEDLITSASKTEETLSKKREYQSSSCVSSTSSSYSSSES RFSSESIGRLDWETLVHENLP
GLMEMDQDDRVP RDSLFRYFELLEKLQYNLEERKQLQEFQALMNLEDK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_001282310

ORF Size: 1602 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_001282310.2](#)

RefSeq Size: 1755 bp

RefSeq ORF: 1605 bp

Locus ID: 117155

Cytogenetics: 15q15.3

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

MW: 62.9 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]