

## Product datasheet for **RG213786**

### CATSPER4 (NM\_198137) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CATSPER4 (NM_198137) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CATSPER4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG213786 representing NM\_198137  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGGATAATGAAAAGCCTGGTGGCAGCAATGGACCTCCCATACAGGCCTCGAGGGGTGGGGCGGGA  
 CTCAGGAGGACCGTATGGGGTTGGAGGGGCAGTAGCTGCACTGAGGGGCGCCCTCTCCCTGCAGAG  
 TACCATTACGAGTCCTACGGTCGGCCAGAGGAGCAAGTGCTCATCAACCGCCAGGAAATCACGAACAAA  
 GCGGACGCTGGGACATGCAGGAGTTCATCACTCACATGTACATCAAGCAGCTGCTCCGACACCCCGCT  
 TCCAAGTCTGCTGGCCCTGCTGCTGGTATCAATGCCATCACCATCGCTCTCCGTACCAACTCCTACCT  
 GGACCAGAAACTATGAGTTGTTCTCTACCATAGATGACATTGTGCTGACCATCCTTCTTTGTGAGGTT  
 CTCCTTGGCTGGCTCAATGGCTTCTGGATTTTCTGGAAGGACGGCTGGAACATCCTCAACTCATTATCG  
 TCTTTATCTTCTTGGGTTCTTCAATTAATGAAATCAATATCCCTCCATCAACTACACTCTCAGGGC  
 GCTTCGCTGGTGCATGTGTGCATGGCGGTGGAGCCCTCGCCCGGATCATCCGCGTCATCTGCAGTCG  
 GTGCTGACATGGCCAATATCATGGTCCATCCTCTTCTTCATGCTGGTTTTTCCGTGTTTGGAGTAA  
 CACTCTTTGGTGCATTCTGTGCCAAGCATTCCAGAACATACAGGTTGCGCTGTACACCCTTTCATCTG  
 CATCACCCAGGACGGCTGGTGGACATCTACAGTACTCCAGACAGAGAAGAGGGAATATGCAATGGAG  
 ATGGGGGTGCCATCTACTTTACCATCTTCATCACCATCGGTGCCTTCATTGGCATCAACCTGTTTCGTA  
 TCGTGGTGACCACCAACTGGAGCAAATGATGAAGGCAGGAGAGCAGGGACAACGCAACGAATAACCTT  
 TAGTGAGACAGGCGCAGAGGAAGAGGAGGAGAATGACCAGCTGCCACTGGTGCATTGTGTGGTCCGCCG  
 TCGGAGAAATCTGGTCTCCTCCAGGAACCCCTTGGGGAGGCCCTGTGCAACCTCTCAGAAAACAGT  
 GTGCAACTTTTGGTGGTCTTGGGCAATACAGGAGAACCTGAGGCAGTACAAGGAGATCCGAGATGA  
 ACTCAACATGATTGTGGAGGAGGTGCGCGCAATCCGCTTCAACCAGGAGCAGGAGTCAGAGGTGTTGAAC  
 AGGCGCTCGTACGACGAGCGGCTGTTGGAGACTACGTCATCCAAGGACATCCGCCAGATGTCTAACAGC  
 AAGACTTGCTCAGTGCCTCGTTAGCATGGAAAAGTTTCATGACTCTAGCTCACAAATACTCCTTAAAAA  
 ACACAAGAGCAGCCACTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG213786 representing NM\_198137  
 Red=Cloning site Green=Tags(s)

MRDNEKAWWQWTSHTGLEGWGGTQEDRMFGGAVAALRGRPSPLQSTIHESYGRPEEQVLINRQEITNK  
 ADAWDMQEFITHMYIKQLLRHPAFQLLLALLLVINAITIALRTNSYLDQKHYELFSTIDDIVLTILLCEV  
 LLGWLNGFWIFWKDGNILNFIIIVFILLRFFINEINIPSYNYTLRALRLVHVCMAVEPLARIIRVILQS  
 VPDMANIMVLILFFMLVFSVFGVTLFGAFVPKHFQNIQVALYTLFCITQDQGWVDIYSDFQTEKREYAME  
 IGGAIYFTIFITIGAFIGINLFIIVVTTNLEQMMKAGEQQQQRIITFSETGAESEEEENDQLPLVHCVVAR  
 SEKSGLLQEPLAGPLSNLSENTCDNFCLVLEAIQENLRQYKEIRDELNMIVEEVRAIRFNQEQESEVLN  
 RRSSTSGSLETTSSKDIRQMSQQQDLLSALVSMKVHDSQILLKHKSSH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_198137

**ORF Size:** 1418 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).

**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\\_198137.1](#), [NP\\_937770.1](#)

**RefSeq Size:** 1419 bp

**RefSeq ORF:** 1419 bp

**Locus ID:** 378807

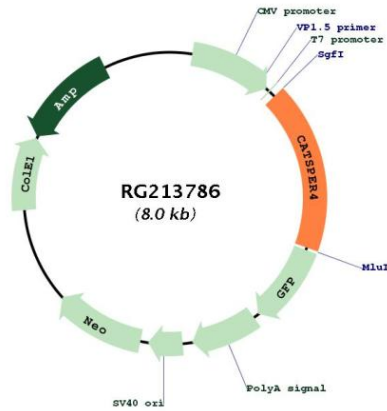
**UniProt ID:** [Q7RTX7](#)

**Cytogenetics:** 1p36.11

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

**Gene Summary:** Voltage-gated calcium channel that plays a central role in calcium-dependent physiological responses essential for successful fertilization, such as sperm hyperactivation, acrosome reaction and chemotaxis towards the oocyte.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG213786