

## Product datasheet for **RG216311**

### CATSPER2 (NM\_172097) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CATSPER2 (NM\_172097) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CATSPER2  
**Synonyms:** MGC33346  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG216311 representing NM\_172097  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGCTTACCAACAAGAAGAGCAGATGCAGCTTCCCCGAGCTGATGCCATTCGTTACAGTCTCATCG  
ATACTTTCTCTCTCATTGAGCATTGCAAGGCTTGAGCCAAGCTGTGCCGCGGCACACTATCAGGGAGTT  
ACTTGATCCTTCCCGCCAGAAGAACTTGTATTGGGAGATCAACACCAGCTAGTGCCTTTCTATAAAG  
CCTCAGCGTATAGAACAGATTTACATGCCAGAGGCTGTTGAGCAGGCTTCATGTGCGTGCAGTCAGA  
GGCCACCTCTTTCTTTGTGGCCGGATGGGTCCTTGAGTGTCTCTCTTCAAAAACCTTCATCATCTTCT  
GGTCTTTTTGAATACGATCATATTGATGTTGAAATAGAATTGCTGGAATCCACAAATACAAACTATGG  
CCATTGAAGCTGACCTTGAGGTGGCAGCTTGTTTATCTTGCTTATTTTCATCCTGGAGATCCTTCTTA  
AGTGGCTATCCAACCTTTCTGTTTTCTGGAAGAGTGCCTGGAATGTCTTTGACTTTGTTGTACCATGTT  
GGTAAGGATAGAGATCCTGAGGGTTCGTTTAGTGGGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG216311 representing NM\_172097  
Red=Cloning site Green=Tags(s)

MAAYQEEQMLPRADAIRSRLIDTFSLIEHLQGLSQAVPRHTIRELLDPSRQKLVLDGDQHLVRFSLK  
PQRIEQISHAQRLLSRLHVRCSQRPLSLWAGWVLECPFKNFIFLVFLNTIILMVEIELLESTNTKLW  
PLKLTLEVAWFILLIFILEILLKWL SNFSVFWKSAWNVDFVVTMLVRIEILRVRLVG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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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:** 599 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]