

## Product datasheet for MR205090

### Catsper3 (BC089518) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Catsper3 (BC089518) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Catsper3
Synonyms:	4921522D01Rik; CACRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205090 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCACCACGGTCACCACCAACTCCTTTTTACTGGTCTTGGGACTAATTATGACATACAATTCGAGT  
TTTTCAGAACCTTTGAGGTCTCAGAGCTTTTCTTTGTATCTGTCTATGTCTGCGAGTTCCTCATGAAGGT  
CTATGTGGACCCATTACATACTGGAAGGATGGCTATAACATACTGGATGTGATCATTCTCATCATTCTC  
ACCATACCCTATCTCCTCCGAAAATCAAGGGGAATCATTCTGCATACCTCCACTTTGCTGATGGCATCC  
AGTCTCTACGAATCCTCAAGCTTATCTCCTACAGTAGGGGCATCAGGACACTCATCATCGCTGTGGGGGA  
GACGGTCTACACTGTGGCCTCGGTGCTGACGCTGCTTTCTCCTCATGTTTGTGTTTCGGATCCTGGGA  
TTCTGCCTATTTGGCGTGACGGACAGAGGCGACCTGGAGAAGTGGGGAACTGGCTTCAGCTTTCTTTA  
CTCTCTTCAGTTTGGCCACGGTTGATGGCTGGACTGACCTGCAGGAAGAGCTGGACAAGAGGAAGTTTAC  
TGTGAGCCGGGCGTTTACTATCCTTTCATCTTGCTTGCATCCTTCATCTTCTCAACATGTTTGTGGGT  
GTGATGATCATGCACACGGAGGATCCATGAAAAAGTTTGGAGGGATCTGACGTTGGAGAGGAACCTTG  
CGATTATGGAGGAGAAGCAAATAATCCTGAAACGCCAGCAAGAGGAGGTCAACAGGCTGATGAACACACA  
GAAAAGTGGTAGCATGAACCTTATTGATATGGTGGAGGGCTTCAAGAAGACCTCGCGGCACACAGACCCC  
ATGTTTCTGGATGACTTCAGCACTAGTCTCCTTCATTGATATCTACTTGGTCACTCTGGACAACCAAG  
ATGTTATTGTGAGCAAGCTTCAGGAGCTCTACTGTGAGATTGTGAACGTGCTGAGCCTGATGTTGGAAGA  
CATGCCAAGGAGAGCTCGTCCAGCCTCTCGGGACTAAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205090 protein sequence  
Red=Cloning site Green=Tags(s)

MITTVTTNSFLLVLGTNYDIQFEFFRTFEVSELEFFVSVYVCEFLMKVYVDPITYWKDGYNILDVILIIIL  
 TIPYLLRKIKGNHSAYLHFADGIQSLRILKLSYSRGIRTLIIAVGETVYTVASVLTLLFLLMFVFAILG  
 FCLFGVTDGRDLENWGNLASAFFTLFSLATVDGWTDLQEELDKRKFTVSRAFTILFILLASFIFLNMFVG  
 VMIMHTEDSMKKFERDLTLERNLAIMEEKQIILKRQEEVNRLMNTQKSGSMNFIDMVEGFKKTLRHTDP  
 MYLDDFSTLSLFDIYLVTLDNQDVIVSKLQELYCEIVNVLSLMLDMPKESSSLSGLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC089518

**ORF Size:** 1020 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:** [BC089518](#), [AAH89518](#)

**RefSeq Size:** 1511 bp

**RefSeq ORF:** 1022 bp

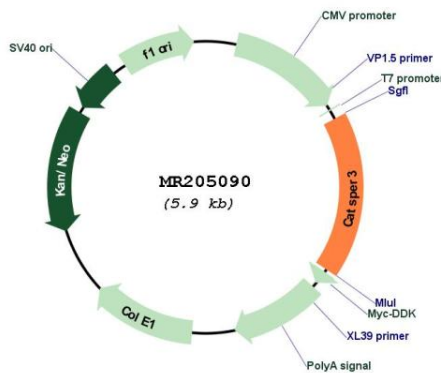
**Locus ID:** 76856

**Cytogenetics:** 13 B1

**MW:** 39.1 kDa

**Gene Summary:** Voltage-gated calcium channel that plays a central role in sperm cell hyperactivation. Controls calcium entry to mediate the hyperactivated motility, a step needed for sperm motility which is essential late in the preparation of sperm for fertilization. Activated by intracellular alkalinization.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205090