

Product datasheet for **MG205090**

Catsper3 (BC089518) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Catsper3 (BC089518) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Catsper3
Synonyms:	4921522D01Rik; CACRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205090 representing BC089518 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCACCACGGTCACCACCAACTCCTTTTTACTGGTCTTGGGACTAATTATGACATACAATTCGAGT
TTTTCAGAACCTTTGAGGTCTCAGAGCTTTTCTTTGTATCTGTCTATGTCTGCGAGTTCCTCATGAAGGT
CTATGTGGACCCATTACATACTGGAAGGATGGCTATAACATACTGGATGTGATCATTCTCATCATTCTC
ACCATACCCTATCTCCTCCGAAAATCAAGGGGAATCATTCTGCATACCTCCACTTTGCTGATGGCATCC
AGTCTCTACGAATCCTCAAGCTTATCTCCTACAGTAGGGGCATCAGGACACTCATCATCGCTGTGGGGGA
GACGGTCTACACTGTGGCTCGGTGCTGACGCTGCTTTCTCCTCATGTTTGTGTTTCGGATCCTGGGA
TTCTGCCTATTTGGCGTGACGGACAGAGGCGACCTGGAGAAGTGGGGAACTGGCTTCAGCTTTCTTTA
CTCTCTTCAGTTTGGCCACGGTTGATGGCTGGACTGACCTGCAGGAAGAGCTGGACAAGAGGAAGTTTAC
TGTGAGCCGGCGTTTACTATCCTTTCATCTTGTCTTGCATCCTTCATCTTCTCAACATGTTTGTGGGT
GTGATGATCATGCACACGGAGGATTCATGAAAAAGTTTGTGAGCGGATCTGACGTTGGAGAGGAACCTTG
CGATTATGGAGGAGAAGCAAATAATCCTGAAACGCCAGCAAGAGGAGGTCAACAGGCTGATGAACACACA
GAAAAGTGGTAGCATGAACCTTATTGATATGGTGGAGGGCTTCAAGAAGACCTCGCGGCACACAGACCCC
ATGTTTCTGGATGACTTCAGCACTAGTCTCCTTCATTGATATCTACTTGGTCACTCTGGACAACCAAG
ATGTTATTGTGAGCAAGCTTACAGGAGCTCTACTGTGAGATTGTGAACGTGCTGAGCTGATGTTGGAAGA
CATGCCAAGGAGAGCTCGTCCAGCCTCTCGGGACTAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205090 representing BC089518
 Red=Cloning site Green=Tags(s)

MITTVTNSFLLVLGTNYDIQFEFFRTFEVSELEFFVSVYVCEFLMKVYVDPITYWKDGYNILDVILIIIL
 TIPYLLRKIKGNHSAYLHFADGIQSLRILKLIYSYRGIRTLIIAVGETVYTVASVLTLLFLLMFVFAILG
 FCLFGVTDGRDLENWGNLASAFFTLFSLATVDGWTDLQEELDKRKFTVSRAFTILFILLASFIFLNMFGV
 VMIMHTEDSMKKFERDLTLERNLAIMEEKQIILKRQQEEVNRLMNTQKSGSMNFIDMVEGFKKTLRHTDP
 MYLDDFSTLSLFDIYLVTLDNQDVIVSKLQELYCEIVNVLSLMLEMPKESSSLSGLS

TRTRPLE - GFP Tag - V

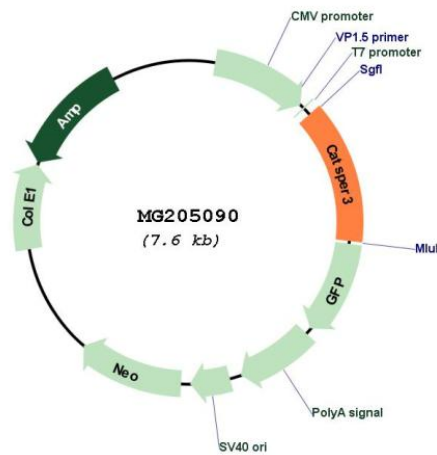
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC089518

ORF Size: 1022 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:	<ol style="list-style-type: none">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
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]