

Product datasheet for **MG223130**

Catsper3 (NM_029772) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Catsper3 (NM_029772) 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: >MG223130 representing NM_029772
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTC**CAACATTTT**CACCACAACCCTGTACGAGTCAAGTCGGGCTCACTGTTTGCTACAGCATCGGAAG
 CATTGCAGGCAAGACTGAGCAAGATTAAGAGGAAGGATAAGGAGTGCCAGGCTTACTTCAGGAAGTTAT
 TAAGAGCACTTTCTTCCAGATTGTGATGATCACCACGGTCACCACCAACTCCTTTTACTGGTCTTGGGG
 ACTAATTATGACATACAATTCGAGTTTTTCAGAACCTTTGAGTTCCTCATGAAGGTCTATGTGGACCCCA
 TTACATACTGGAAGGATGGCTATAACATACTGGATGTGATCATTCTCATCATTCTCACCATACCCTATCT
 CCTCCGCAAAATCAAGGGGAATCATTCTGCATACCTCCACTTTGCTGATGGCATCCAGTCTCTACGAATC
 CTCAAGCTTATCTCCTACAGTAGGGGCATCAGGACACTCATCATCGCTGTGGGGGAGACGGTCTACACTG
 TGGCCTCGGTGCTGACGCTGCTCTTCTCCTCATGTTTGTGTTTCGCGATCCTGGGATTCTGCCTATTTGG
 CGTGACGGACAGAGGGCGACCTGGAGAAGTGGGGAACTGGGTTTCTTTACTCTCTCAGTTTGG
 GCCACGGTTGATGGCTGGACTGACCTGCAGGAAGAGCTGGACAAGAGGAAGTTTACTGTGAGCCGGGCGT
 TACTATCCTCTTCATCTTGCTTGATCCTTCACTTCTCAACATGTTTGTGGGTGTGATGATCATGCA
 CACGGAGGATCCATGAAAAAGTTTGGAGGGATCTGACGTTGGAGAGGAACCTTGGCATTATGGAGGAG
 AAGCAAATAATCCTGAAACGCCAGCAAGAGGAGGTCAACAGGCTGATGAACACACAGAAAAGTGGTAGCA
 TGAACCTTATTGATATGGTGGAGGGCTTCAAGAAGACCCTCGGCACACAGACCCCATGGTTCTGGATGA
 CTTCAGCACTAGTCTCTCCTTATTGATATCTACTTGGTCACTCTGGACAACCAAGATGTTATTGTCAGC
 AAGCTTACAGGAGCTCTACTGTGAGATTGTGAACGTGCTGAGCCTGATGTTGGAAGACATGCCAAGGAGA
 GCTCGTCCAGCCTCTCGGGACTAAGT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG223130 representing NM_029772
 Red=Cloning site Green=Tags(s)

MSQHFFHNPVRVKSGSLFATASEALQARLSKIKRKDKCEQAYFRKVIKSTFFQIVMITTNTNSFLLVLG
 TNYDIQFEFFRTFEFLMKVYVDPITYWKDGYNILDVIIILITIPYLLRKIKGNHSAYLHFADGIQSLRI
 LKLISYSRGIRTLIIAVGETVYTVASVL TLLFLLMFVFAILGFCLFGVTRDGLDNWGNLASAFFTLFSL
 ATVDGWTDLQEELDKRKFTVSRAFTILFILLASFIFLNMFVGVMMHTEDSMKKFERDLTLERNLAIMEE
 KQIILKRQQEEVNRLMNTQKSGSMNFIDMVEGFKKTLRHTDPMVLDDFSTLSFIDIYLVTLDNQDVIVS
 KLQELYCEIVNVLSLMLLEDMPKESSSSLSGLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029772

ORF Size: 1146 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_029772.4](#), [NP_084048.1](#)

RefSeq Size: 1311 bp

RefSeq ORF: 1149 bp

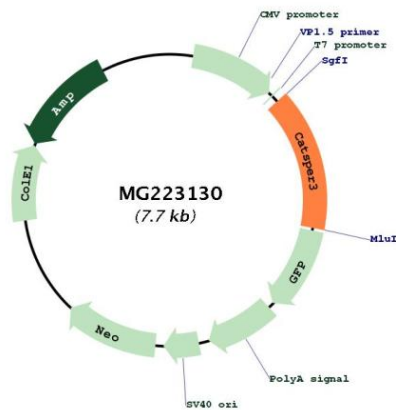
Locus ID: 76856

UniProt ID: [Q80W99](#)

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]

Product images:



Circular map for MG223130