

Product datasheet for **MR229683**

Catsper3 (NM_001252487) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Catsper3 (NM_001252487) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Catsper3
Synonyms: 4921522D01Rik; CACRC
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229683 representing NM_001252487
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCCAACATTTTACCACAACCTGTACGAGTCAAGTCGGGCTCACTGTTTGCTACAGCATCGGAAG
CATTGCAGGCAAGACTGAGCAAGATTAAGAGGAAGGATAAAGGAGTGCCAGGCTTACTTCAGGAAGGTTAT
TAAGAGCACTTTCTCCAGATTGTGATGATCACCACGGTCACCACCAACTCCTTTTTACTGGTCTTGGGG
ACTAATTATGACATAACAATTCGAGTTTTTCAGAACCTTTGAGGTCTCAGAGCTTTTCTTTGTATCTGTCT
ATGTCTCGGAGTTCCTCATGAAGTCTATGTGGACCCATTACATACTGGAAGGATGGCTATAACATACT
GGATGTGATCATTCTCATCATTCTACCATACCCTATCTCCTCCGCAAAATCAAGGGGAATCATTCTGCA
TACCTCCACTTTGCTGATGGCATCCAGTCTCTACGAATCCTCAAGCTTATCTCCTACAGTAGGGGCATCA
GGACACTCATCATCGCTGTGGGGGAGACGGTCTCACTGTGGCCTCGGTGCTGACGCTGCTTCTCCTCT
CATGTTTGTGTTCCGATCCTGGGATTCTGCCTATTTGGCGTGACGGACAGAGGCGACCTGGAGAAGTGG
GGGAACCTGGCTTCAGCTTTCTTACTCTTTCAGTTTGGCCACGGTTGATGGCTGGACTGACCTGCAGG
AAGAGCTGGACAAGAGGAAGTTTACTGTGAGCCGGGCTTTACTATCCTTTCATCTTGTGATCCTT
CATCTTCTCAACATGTTTGTGGGTGTGATGATCATGCACACGGAGGATTCCATGAAAAAGTTTGAGCGG
GATCTGACGTTGGAGAGGAACCTTGCGATTATGGAGGAGAAGCAATAATCCTGAAACGCCAGCAAGAGG
AGGTCAACAGGCTGATGAACACACAGAAAAGTGGTAGCATGAACTTCATTGATATGGTGGAGGGCTTCAA
GAAGACCTGCGGCACACAGACCCCATGGTCTGGATGACTTCAGCACTAGTCTCTCCTTCATTGATATC
TACTTGGTCACTCTGGACAACCAAGATGTTATTGTGAGCAAGCTTCAGGAGCTCTACTGTGAGATTGTGA
ACGTGCTGAGCCTGATGTTGGAAGACATGCCCAAGGAGAGCTCGTCCAGCCTCTCGGGACTAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229683 representing NM_001252487
 Red=Cloning site Green=Tags(s)

MSQHFFHNPVRVKSGLFATASEALQARLSKIKRKDKCEQAYFRKVIKSTFFQIVMITVTNSFLLVLG
 TNYDIQFEFFRTFEVSELEFFVSVYVCEFLMKVYVDPITYWKDGYNILDVILIIITIPYLLRKIKGNHSA
 YLHFADGIQSLRILKLISYRGIKRTLIIAVGETVYTVASVLTLLFLLMFVFAILGFLGVTDRGDLENW
 GNLASAFFTLFSLATVDGWTDLQEELDKRKFTVSRRAFTILFILLASFIFLNMVFGVMIMHTEDSMKKFER
 DLTLERNLAIMEEKQIILKRQQEEVNRMLMNTQKSGSMNFIDMVEGFKTLRHTDPMVLDLDFSTLSLFDI
 YLVTLDNQDVIVSKLQELYCEIVNVLSLMLDMPKESSSLSGLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

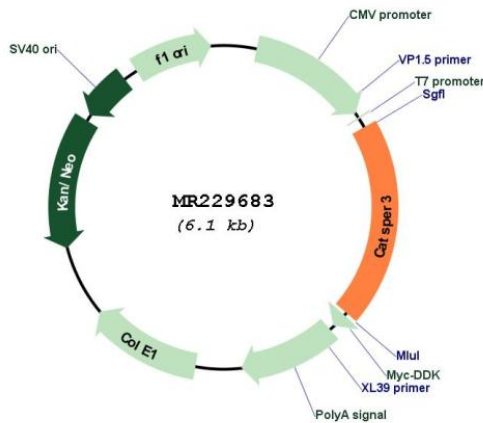
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252487

ORF Size:	1185 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:	NM_001252487.1 , NP_001239416.1
RefSeq Size:	1352 bp
RefSeq ORF:	1188 bp
Locus ID:	76856
UniProt ID:	Q80W99
Cytogenetics:	13 B1
MW:	45.9 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]