

Product datasheet for **MC227163**

Catsper3 (NM_001252488) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Catsper3 (NM_001252488) Mouse Untagged Clone
Tag: Tag Free
Symbol: Catsper3
Synonyms: 4921522D01Rik; CACRC
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227163 representing NM_001252488
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCCAACATTTTCACCACAACCCTGTACGAGTCAAGTCGGGCTCACTGTTTGCTACAGCATCGGAAG
CATTGCAGGCAAGACTGAGCAAGATTAAGAGGAAGGATAAAGGAGTGCCAGGCTTACTTCAGGAAGTTAT
TAAGAGCACTTTCTCCAGATTGTGATGATCACCACGGTCACCACCAACTCCTTTTTACTGGTCTTGGGG
ACTAATTATGACATAACAATTCGAGTTTTTCAGAACCTTTGAGGGGAATCATTCTGCATACCTCCACTTTG
CTGATGGCATCCAGTCTCTACGAATCCTCAAGCTTATCTCCTACAGTAGGGGCATCAGGACACTCATCAT
CGCTGTGGGGGAGACGGTCTACACTGTGGCCTCGGTGCTGACGCTGCTCTTCTCCTCATGTTTGTGTTT
GCGATCTGGGATTCTGCCTATTTGGCGTGACGGACAGAGGCGACCTGGAGAAGTGGGGAACTGGCTT
CAGCTTTCTTTACTCTTTCAGTTTGGCCACGGTTGATGGCTGGACTGACCTGCAGGAAGAGCTGGACAA
GAGGAAGTTTACTGTGAGCCGGGCGTTTACTATCCTCTTCATCTTGCTTGCATCCTTCATCTTCTCAAC
ATGTTTGTGGGTGTGATGATCATGCACACGGAGGATCCATGAAAAAGTTTGAGCGGGACTGACGTTGG
AGAGAACCTTGGGATTATGGAGGAGAAGCAAATATCCTGAAACGCCAGCAAGAGGAGGTCAACAGGCT
GATGAACACACAGAAAAGTGGTAGCATGAACTTCATTGATATGGTGGAGGGCTTCAAGAAGACCCTGCGG
CACACAGACCCCATGGTTCTGGATGACTTCAGCACTAGTCTCTCCTTCATTGATATCTACTTGGTCACTC
TGGACAACCAAGATGTTATTGTGACAGCAAGCTTCAGGAGCTCTACTGTGAGATTGTGAACGTGCTGAGCCT
GATGTTGGAAGACATGCCAAGGAGAGCTCGTCCAGCCTCTCGGGACTAAGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001252488



Insert Size:	1035 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001252488.1</u> , <u>NP_001239417.1</u>
RefSeq Size:	1199 bp
RefSeq ORF:	1035 bp
Locus ID:	76856
Cytogenetics:	13 B1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the coding region compared to variant 1. The resulting protein (isoform 3) is shorter but has the same N- and C-termini compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>