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Product datasheet for MC214572

Catsper4 (NM_001130030) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Catsper4 (NM_001130030) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Catsper4
Synonyms:	4933412L05
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC214572 representing NM_001130030
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGAAAAACACAAGTGGTGGCAGCAGGTGGAGAACATCGACATCACACACCTGGGCCCTAAGAGAA
AAGCCTATGAACTCCTGGGTCGGCATGAGGAGCAAGTGCTCATCAACCGCAGAGATGTCATGGAGAAGAA
GGATGCCTGGGATGTACAGGAATTCATCACTCAAATGTATATCAAGCAGTTGCTCCGCCATCCGGCCTTC
CAGCTGCTGCTGGCCTTTCTGCTGCTGTCCAACGCTATCACCATTGCCCTTCGCACCAACTCTTATCTCG
GTCAGAAACATTACGAGCTATTCTCGACCATAGATGACATTGTGTTGACGATCCTTATCTGCGAGGTTCT
GCTTGGTTGGCTTAACGGCTTCTGGATTTTCTGGAAGGTATTCTCTGTGTTTGGGGTCACGCTCTTCGGT
GCATTTGTGCCCAAGCATTTCCAGAACATGGGGGTTGCCCTGTACACGCTCTTCATCTGCATCACTCAGG
ATGGATGGCTGGACATCTACACTGACTTCCAGATGGATGAAAGAGAGTACGCGATGGAGGTCGGGGGCGC
CATCTACTTTGCCGTCTTTATCACCCTCGGTGCCTTCATTGGTCTCAACTTGTTCGTCGTCGTGGTGACC
ACAAACCTGGAACAAATGATGAAGACCGGCGAGGAAGAGGGACACCTGAACATAAAGTTTACTGAGACAG
AAGAGGATGAGGACTGGACCGACGAGCTGCCACTGGTGCATTGTACAGAGGCCCGCAAGGATACTTCCAC
TGTCCCCAAGGAACCACTGGTTGGGGGCCCCCTGAGTAACCTCACAGAAAAGACCTGCGATAACTTCTGC
TTGGTGCTTGAAGCAATACAGGAGAACTTGATGGAGTACAAAGAGATCCGAGAGGAACTCAACATGATCG
TGGAGGAAGTGTCCTCCATCCGGTTCAACCAGGAGCAGCAAAATGTGATCCTACACAAGTATACCTCCAA
AAGCGCCACCTTCCTAAGCGAGCCCCCAGAAGGGGCTAACAAGCAAGACTTGATCACTGCGCTGGTCAGC
AGGGAAAAGGTGTCTGATTCTAACATAAACATGGTTAACAAACACAAGTTCAGCCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-MluI

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ACCN:	NM_001130030
Insert Size:	1110 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).
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_001130030.1, NP_001123502.1
RefSeq Size:	1511 bp
RefSeq ORF:	1110 bp
Locus ID:	329954
UniProt ID:	Q8BVN3
Cytogenetics:	4 D3
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] Transcript Variant: This variant (2) is missing 2 contiguous internal coding exons compared to variant 1, however, it maintains the reading frame, and encodes a shorter isoform (2) that is lacking a 73 aa internal segment compared to isoform 1.

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