

Product datasheet for **MG219014**

Catsper4 (NM_001130030) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Catsper4 (NM_001130030) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Catsper4
Synonyms:	4933412L05
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219014 representing NM_001130030 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAAAAACACAAGTGGTGGCAGCAGGTGGAGAACATCGACATCACACACCTGGGCCCTAAGAGAA
AAGCCTATGAACTCCTGGGTCGGCATGAGGAGCAAGTGCTCATCAACCGCAGAGATGTCATGGAGAAGAA
GGATGCCTGGGATGTACAGGAATTCATCACTCAAATGTATATCAAGCAGTTGCTCCGCCATCCGGCCTTC
CAGCTGCTGCTGGCCTTTCTGCTGCTGTCCAACGCTATACCATTGCCCTTCGCACCAACTTTATCTCG
GTCAGAAACATTACGAGCTATTCTCGACCATAGATGACATTGTGTGACGATCCTTATCTGCGAGGTTCT
GCTTGGTTGGCTTAACGGCTTCTGGATTTCTGGAAGGATTCTCTGTGTTGGGGTCACGCTCTTCGGT
GCATTTGTGCCAAGCATTTCAGAACATGGGGTTGCCCTGTACACGCTCTTATCTGCATCACTCAGG
ATGGATGGCTGGACATCTACACTGACTTCCAGATGGATGAAAGAGAGTACCGGATGGAGGTGGGGGGCGC
CATCTACTTTGCCGCTTTATCACCCCTCGGTGCCCTTCAATTGGTCTCAACTTGTCGTCGTCGTGGTGACC
ACAAACCTGGAACAAATGATGAAGACCGGCGAGGAAGAGGGACACCTGAACATAAAGTTTACTGAGACAG
AAGAGGATGAGGACTGGACCGACGAGCTGCCACTGGTGCATTGTACAGAGGCCCGCAAGGATACTCCAC
TGTCCTCCCAAGGAACCACTGGTTGGGGCCCCCTGAGTAACCTCACAGAAAAGACCTGCGATAACTTCTGC
TTGGTCTTGAAGCAATACAGGAGAACTTGATGGAGTACAAAGAGATCCGAGAGGAACTCAACATGATCG
TGGAGGAAGTGTCTCCATCCGGTTCAACCAGGAGCAGCAAAATGTGATCCTACACAAGTATACCTCCAA
AAGCGCCACCTTCTTAAGCGAGCCCCAGAAAGGGCTAACAAAGCAAGACTTGATCACTGCGCTGGTCAGC
AGGAAAAGGTGTCTGATTCTAACATAAACATGGTTAACAAACACAAGTTCAGCCAC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219014 representing NM_001130030
 Red=Cloning site Green=Tags(s)

MSEKHKWWQQVENIDITHLGPKRKAYELLGRHEEQVLINRRDVMEKKDAWDVQEFITQMYIKQLLRHPAF
 QLLLAFLLLSNAITIALRTNSYLGQKHVELFSTIDDIVLTILICEVLLGWLNGFWIFWKVFSVFGVTLFG
 AFVPKHFQNMGVALYTLFICITQDGLDIYTDQMDEREYAMEVGGAIYFAVITLGAFIGLNLFFVVVVT
 TNLEQMMKTGEEEGHLNLIKFTETEDEDWTDDELPLVHCTEARKDTSTVPKEPLVGGPLSNLTEKTCDNFC
 LVLEAIQENLMEYKEIREELNMIVEEVSSIRFNQEQNVILHKYTSKSATFLSEPPEGANKQDLITALVS
 REKVSNSINMVMNKKHFSH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130030

ORF Size: 1107 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_001130030.1](#), [NP_001123502.1](#)

RefSeq Size: 1511 bp

RefSeq ORF: 1110 bp

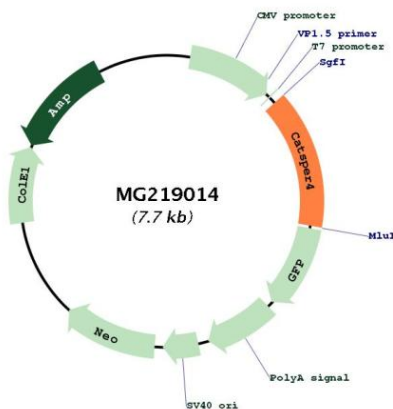
Locus ID: 329954

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]

Product images:



Circular map for MG219014