

Product datasheet for **MC210481**

Catsperz (NM_001039494) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Catsperz (NM_001039494) Mouse Untagged Clone
Tag: Tag Free
Symbol: Catsperz
Synonyms: 1700019N12Rik; A430107B04Rik; MLZ-622
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210481 representing NM_001039494
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGAAAGCGTCAAACCGGTGCCAAACACGCAAACCATCGCCGAGCTCGGTGAGTCCAGCCTGT
 ACGGAGATGTTTCGTGACCTATGGAGCACGGCCACGATGTCCACAGCGAATGTGTCGGTATCCGACGCTCG
 CGAGGACTTCGACGAAGAGGGCAAATCTGTAAGAAACAGGATTCGCAAGTACAGCCAGACATTTCTATT
 AGGGACAGCCTCAACCTCGAGCCAGAGGAGATCCAGCAGCAAGCAGTTCGAGAGCTTGAAGTGTGCCATG
 GCAGGTCTTGGAGCATGGGGAGGACCAGGAAGTCTGAGACCTCCTTAGCATCGTCTACTTCAGAATC
 ACTAATATTCAGCCTATGGAAGCCACATCGAACCTACTGGACAGAGCAGCAGAACAGGCTGCCTCTGCCT
 CTGATGGAGCTCATGGAGACTGAAGTTCGGATATTCTCAAAAAGCCCTCATCACATATAGGTCCACGA
 TTGGCAGGAACCACTTCATGACTAAAGAGCTGCAGGGATACATCGAAGGGATCAGGAAGCGCAGGAACAA
 GAGGCTGACTTTTTGGATCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001039494
Insert Size: 585 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).



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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_001039494.2, NP_001034583.1</u>
RefSeq Size:	781 bp
RefSeq ORF:	585 bp
Locus ID:	67077
UniProt ID:	<u>Q9CQP8</u>
Cytogenetics:	19 A
Gene Summary:	Auxiliary component of the CatSper complex, a complex involved in sperm cell hyperactivation (PubMed:28226241, PubMed:31056283). Sperm cell hyperactivation is needed for sperm motility which is essential late in the preparation of sperm for fertilization (PubMed:28226241, PubMed:31056283). Required for a distribution of the CatSper complex in linear quadrilateral nanodomains along the flagellum, maximizing fertilization inside the mammalian female reproductive tract (PubMed:28226241). Together with EFCAB9, associates with the CatSper channel pore and is required for the two-row structure of each single CatSper channel (PubMed:31056283).[UniProtKB/Swiss-Prot Function]