

Product datasheet for **MC221772**

Catsperd (NM_175350) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Catsperd (NM_175350) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Catsperd
Synonyms:	619718; 4921529N20Rik; 4933402B14Rik; AW045609; Gm6095; Tmem146
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221772 representing NM_175350
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGGTGTGATGCTAGCAGCAGCAGTGGCCACCATGGTCAGGGCTCACACACTGTGCCGGGTGCACA
 CAGTGAGGACCGGAAAGTGTTTAAGTCCAATATACAACCTCAAGGGGACCCACTGTTCTACGCCTTCCC
 CAACACATTTGTGCTCAAGAACGTGTGCAAGGCTGACATTTCTGTGTATCTAGGGCAGAAAGTTTCTTG
 ACGATAGACAACCTTTGAGTCCAGCCTCTTGCCGCTCACCGTTCCTCAAGTATTGGCGGTGGGGGTGCCAT
 CAATCACAAAGCGCCACTTTGTCTCCGGCTCACTAGTACTGTTTGTGATCAGTGGAAAAGGCTACAGTTA
 CGATTACTATGAGAACACCTGGCGTAAATTGGAAGGTATATCAGAACCTGTCTCTCACATTAGTGGTGAC
 GTTTGTTGTTTCAAAGGCTCCTTTTGCCTGGAGTTATCAAATAACCTGTTTGCATATCTCCGTGGTGGCC
 AGATCCCTGGGACCAACATATTTCTCTGACAATGGAGGATTTTCATTCCAGCTCATGAATACTGACAA
 ACTGAGTCACCTGACAGGAACACTAGGAGGCATCTTCCACTTACATTCCATGTCTCAGGTGGGGTACTC
 ATGGTTGAAAATAATTTGGGCACATTTCAATACATGGAGTACCCCTGAACCATAGTATGGGGATAGCCT
 TTTCATACAAGAATCTCCTTGAAGTCATTATGAAACCATACCAGAGGGGGTTTATGGTCCTCTGGAATCA
 GAAAAGTATATTGGTGTCTCCAATTCAAGGCCAGATTGTTGAACACGTGCGGCTGATAGATCAGAAGATC
 TTTACAGACTTAGATGTCGAACATGCCAACATCAACATCTACAGTGTTCCTCAAATGCTTACGAGCTGG
 CTTTTTGGTAGCAGAAGATCATCTGTACTATGGAAGTCAGAGTTACATGGGAACCTATGTAATCAAACCT
 GCCCATCAGCCTCTCTGGTCTACACACACAAGCATCTACTTTGAGGACATCGGCATACTGCAGGTCCCTC
 ACCCCTGTTGCTGACCCACACTTTGCAGCCTATGACTTCGACAAGTGTACAGTGAATGTGCAGTCCCTCTC
 TCAATGGATGAAAAGCTGGCGCTTCAACCATGTAATGTGGAATCTCTGAAAAGCACCATGATAAACAAT
 GTTTACAATAGACATGAATAGCAAGCTGAAACTGTCTGCCCTCATGATACCCCGGAAGGGCGAGAACCCT
 ACCCCTCTGGTCAATGGTCAAGCAATCCCATGCCCTGGGGTTTAAAGCAAACCTCAATGAGTTTGGCAATA
 CGTTTGTAGGCAACTCTAAGTACAAACTGGATATTGAACTCAAACAGCAGCATCACTGGGCAACTCAGA
 TTTCAACTTCACTGCCAGCATCAAGCGCCATGCCATCTCTCTGTAAACCGTGGACATAGCTGACAAGACA
 CTTTCGTGTGGACCTAAAGCCTCTGTCCAGCTCATCTCAGTTGGCTGTGACATGACAAAGAAAATTG
 TTGTGCAAAACAAGATCTCCGCTGCACCATGGGAATCCTGAACCCCGTGCAGTGCAGAAGAAGTATAC
 TTACACCATTGAGAAGGAAGCATACGATCCTATCAACCACAATGGTGAAGCCAGGATGACCTGATAGTA
 TTTTACGAGTACAAGGACCTGGGCTGCCGCGCCTAGTCTACTATGACAAGCCGTGGAAACCTGTGGTGG
 AACTGTGGAAGAATGGGATTGTAGAAGAAATCATGAACGCAGAGTATGTCATCTCGGAGATAAATGGACT
 AGTCACCTATTCACTCCTTGACGGCTGCCACTGCAAACCTGCCGTCACAGCCCGAAGTGGAGCACC
 TTTGAATCGGATATTGAGAACGAAGAACCGTTCCTCTGGAACAGAGAGAACTATGTCAGCTGCCACGAAG
 ACAACAAGGACAACCCCTGCTATGGCCGAATGTGCGAGTATCAGGCTTTAGGTGGCCAGACAAACAACA
 GATTATTTTGGCCAAAGAAATGGGATCTATACCTTCCATCTGTCTGTGGTAGATCCATACTACAGCTAC
 TGCAACCTGAACACCATATTCAGCGTGTACGTGCACGGGGCCTTACCGGTGACGAAGTCCAACCATTCG
 TCACCATCCTCCTGATGGTCACCACAACGCTGCTGACTGCGTGGCTGGCCTATGCTATCCCAACAGCT
 GAGGAGTGAGAAAGGCCAGCGACTTCTGGTTTCTGCTACCAGATACTCCAGCTCTGCCTAGGGGTCTGC
 TTCTGCACCTGGCTGCGTGGCAAACCTGAGACAGTGGCTGCGCCCGAAGGGTGAAGACCAGAACAGAG
 GCAAGGTGCGAGTTGCCAGAAACATCCAGAGACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_175350
Insert Size: 2418 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:	<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_175350.3 , NP_780559.2
RefSeq Size:	2565 bp
RefSeq ORF:	2418 bp
Locus ID:	106757
UniProt ID:	E9Q9F6
Cytogenetics:	17 D
Gene Summary:	Auxiliary component of the CatSper complex, a complex involved in sperm cell hyperactivation. Sperm cell hyperactivation is needed for sperm motility which is essential late in the preparation of sperm for fertilization. Required for CATSPER1 stability before intraflagellar transport and/or incorporation of the CatSper complex channel into the flagellar membrane.[UniProtKB/Swiss-Prot Function]