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Product datasheet for RN203185

Catsperd (NM_001134984) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Catsperd (NM_001134984) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Catsperd
Synonyms:	Tmem146
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>RN203185 representing NM_001134984
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGATGTTGATGCTAGCAGCAGTGGCCACGGTGGTCAGGGCTCAAACAGTGTGCCGGTTTCGGACAG
TGAGGACTGGGAAAGTGTTTGCGAACCCTGTAACACTTGAAGGGGATCTGCTGTTCTACGCCTTCTCCAA
CACAGTTGTGGTCAAGAACGTATGCAAGACTGACATTGCCGTGTATCTAGGGCAGAGGGTTTTCATAACG
AAAAACCGCTTTGAGGCTAGCATCTTACCGCTCACCATTCCGAAGTCAATGGAGGTGAAAATGCCATCAA
TCACGAGTGCCCACTTTGTTTCCGATGCAATGATTCTGTTTGTGATCGATGGAAAAGTCTACAGTTACAA
CTTTATTGAGGACATCTGGAGAACAGTGAACGGTATAACAGAACCTGTCTCTCACATTAGTGGTGACCCT
TGTTGTTTTGAAGGCTACTTTTGCCTGGAGTTATCAAATAACCTGTTTGCATATTTCCGTGGTGGCCAAA
TGCCTGGGACCAACATATATTTCTCCAACAATGGAGGATTCTCATTCGAGCTCCTGAACAGTGACAGAAT
GAGTCACCTTAAAGGGTTACTAGGAGGCATCTTCCATTTCCATTCTTTGTCTCAGGTGGGGATACTCTTG
GTTGAAAACAACTTGGGCACATTTCACTACCTGGAGTACCCCCTGAACCATAGTACCGGGGTACCCTTTT
TATATGAGAGTCCCCTTGAAGTCATCATCAAACCACAGCAGAGAGGGTTTCTGATCCTCTGGAATCAGAA
AACTTTATTGGTGTCCTCCAATTCAGGCCAGATCGTAGAAGCCATGCAGTTGATGGAAGAAGGGAACATC
AACGACTTAAATGTTGAGCATGCCAAACTCACCATTCACAGCATTGCCTCGAATACTTACGAGCTGGCTT
TTTTGGTAGAACAAGATCAACTGTACTATGGAAGTCAGAGTTACATGGGAAACTACATAATCAAACTGTC
CAATCAACAATTCTGGTCTGAAGAGGCAAGTGTGCATTTCTGGGACGTCGGCATGCTGGAGGTCCTCACC
CCCGTTTCTGACCCATATTTCCCAGCGTTTGACTTCAAGAAGTGCCTGGTGAACGTGCAGCTCGCTCTCA
TGGACCAGAGCCTGCAACTCGAGCCATGTAATGTGGAATTTCTGGAGAGCACCATGGAAGATAGAATGTT
CATAATAGACATGAACAGCAAGCTAAAGCTGTCTGCCCTCATGGTACCCCGGAAGGGCATGAACCCCACC
CCACTGGTCATGGTCAGCAATCCCCATGCCCTGGGGTTTAAGGCAAACCTCACTCAGTTTGGCAACATGT
ATGATGGCAACTCTAAGTTCAAACTGGATATTGAACTCCAACAGCAGCAGCACTGGGGCAACTCAGAGTT
GAACTTCACTGCCAGCATCAAGCACGAAGCCATCTCCTCCATAACCGTGGACATAGCTGACAAGACACTT
TCGTGTGTGGACCTAAAGCCTCTGTCCACGCTCATCTCAGTTGGCTGTGACTTGACAAAGAAAGTTATTG
TGCAAAACAAAATCTCTGCCTGTGCCATGGGGATCCTCGACCCGGTGCTGCTGCAGAAGAACTATAGTTA
CACCATTGAGAAGGAAGCGTACAACCCAACCAGCTACAGTGGTGAAGCCCAGGATGACCTGATAGTATTT
TACCAGTACAAGGAACTGGGCTGTCCCCGCTTAGTCTACTACGACAAGCCGTGGAAACCTGTGGTGGAAC
TGTGGAAGGATGGGACTCTAGAAGAAATCATGAACGCAGAATATGTCATCTTGGAGTTGAATGGAATAGT
CACCTATTCATACTCCTTGACGGCTGCCACTGCCCACTGCCGATCACAGCCTCAGAACTGGAGCATCTTT
AAAGAAGACGCAGAGAAGCCGTCCCTCTGGAACAGAGAGACCTATGTCAGCTGCCATGAGGACAACCAGG
ACAACCCCCTGCTATGGCCAAATGTCGAGTATCAGATCTTAGGTGGCAGGACAGACAACAAGATTATTTT
TGGCCAAAGAAATGGAATCTATACCTTCTATCTGACTGTGGTGGATCCATACTACAGATATTCAAGTACT
GCCCAGGGATCTGCACCTGTGCTTGGCTTCGGGGCAAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001134984

Insert Size: 2142 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_001134984.1, NP_001128456.1
RefSeq Size:	2434 bp
RefSeq ORF:	2142 bp
Locus ID:	680264
UniProt ID:	B5DFM7
Cytogenetics:	9q12
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 (By similarity).[UniProtKB/Swiss-Prot Function]