

Product datasheet for MC223604

Catsperb (NM_173023) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Catsperb (NM_173023) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Catsperb
Synonyms:	4931410B03; 4932415G16Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223604 representing NM_173023 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTACCACCTTATATATGTTATGCTGGTCTTTGAATGTATTTGATTTTCATCAGGAGTAATAC
ATAATAAGGGTAAGGAGCGAACTACTTTTCTTGTCCGGTGAAGGGATTCTCACAGGTCTGCATACAAT
CAAGTTGTTCCCTACCATGGACAATTTGAAAGTCCGCTGTTTCTCAGAAATGAAATCAAAGTCCCTTCA
AAGGAAATTTTGGGTCTCTTTACATCAGGAGGCCCTTGCTCCCAACATGATAATTACGAACAGTACATTCT
ACGGTGGCTACTATTTTAAATTAACCTCCGTTCCAGTAATCGTCTTGAGTGGTTAATTGATATTCCTAGACA
AAACATCACTGTAACACAGACATTGCAGCTGTAGAACAGTGGATGATAAAGATCACAATGCATGAAGGA
TTAAACATTTATGATACTGAGGGGACCTTATTGGATCTTGTTCGAGAGCCTATTCTTCAGTGGAACTTGT
GACGTGTGCTTACAGAAATGGAGGTTAGAGATTATCCAGAAGTGAACGATATCAAAGTGACAAAAGAG
CCCCTGTGCCAATGATGTGGCTTAAATAGGCTTTATGATGAAACCATCATCTAATGGTGTTCATAGGA
AAAACATTTCTGGATTTTGGACCTATAAGGAATGCATATGCCATGACCTCACAGAGATAATCTATGCAG
AACTTAAAGATGAACACCAAGGACTCACAGTATAGATCTGGTTTTAACAAATCATTTTTTAGTCATCCT
TACCTCTTGGGTCTTTATGTAAGTAGTATCTTCGTTATCCAACCACTCACAGATAAAGCTTTCCAGA
GCAGAGTTTTGTGGATTTGAAAGGGTTGACTATATTAGAGGAAATCTGTGGTATAATGAAAAATGTTTTG
CAAACAGAGAAAGTTTTGAAAGTTGATTATGTTACTATCACTTTCAACAGAAAACAGGACCCTCAGTGAGTC
CAGTCTGTGTTTTTTCAGTAAAGAACCATTTCTCACTGGTTACCTTGTGATTCTCTACTATTAATAAAT
GAAAAATCCATTCGCGTGTGATAACATTCCTATTGACCAAGAAAACAGACAGTGGAAATTTATCTTTTCA
ATGTGCAAGATACCAAAGAGACCTATGCTACTGTAGCTATGCTCAAGGATGGGAAACCAAGCCCTCGACC
AAAATTCCTAGTTTTTCATTTTCTTCAACATTCCTTCCACTTGAATGATATCCATCCCAGAAGC
CACTTTCTGTATGTTTATGGCAGTCAAATATGGGTTTCAATGGATGGTGGCAATACTTTTGAATGCTGT
GTAACCTATTCTCACACCATGTAACAAAGACTTCTAATAGCTTTTATACTTCAGATATTGTTTTTATTGT
AGAAGATGGAAGAATTTTACGACCAAGGCAGGCTTAACTACATATAGTGAAGTGGGATATTAAGGAT
GCCATTTTACATTGTACTATGATCAATTGGGATACATACAAAACACTGACGCCAGAAAACCTTTGACGCTG



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GTTCAAACTTTTAGGGCATGGAATTCTGGCAGCATTTTTGGAAAGAGGCCTGATTTGGGATTTGAAGC
 TATACTAGTTCCACAATATATCTCTACCAACGAAATGATTTCTTTGCACATGTACCTCTGACTATGCC
 ACCAACATACAGTGGAAAAAGAGATTTAAACTATTACCTGGGGAAAACAATAGAGTTCAGTAAACTG
 GACTTGCTAATATCAAAAATGTATATGCATAAACTGAGCCTGTGGGATTTTCAGACATCTATTCACAC
 AGAAATAATAGTCCCTTCGGGATTGAGAACTCAAAGGACAGCCCTGTGTTACTTAGCGATCTTGAATT
 ACATATTCTGAAAAGTTATACTACACAATTAAGCTTCTATCAAAAATCCCCTGCATGAGCTTAAATCTA
 CAGATGTAGAAAAGTCTGTGTTAATACCTGGCTATAGCAGCTTCCTGATCATGAACATTACAGATAAATG
 GACTGCTTCTGCCTTGGCTACTATGCCTCAAGCAATAAAATCAAACCTGAAGTTTCTAACAGGTTCTTGG
 TTCTTATACAACCTTTGGCACGGCTGGAGGACGGAATGGAGCATAAGTACAAGACAATGTAATTATTGGA
 TTCAACAAGATAGTCTTGATTTTATGTCCCTTAATCTTGTGAAGTATATTGATGTGGAAACACAATAGA
 TTTTCAATTTAAGATTATTCCAAAAGCTATGTCAACATTTCTATCCCTCCAGTCAGTATGGTGGTTGGA
 AACCCAGGATTGGTGAAGTTAAGACACAAGGTGTTTTTGACCTCAATGAAAATTATTATCTAGATATTC
 ATGTATCTGGAAGATTTTTTCAAAAAGGTTCCACTTCAATAGCACTGGTCTTTGGGAGGGATCAAGTAA
 ATGCTATGCTATTACACTGCTGCCAACCATAAAGAGCAGCTGCAGTTACCTCAGGACTATGCACCACCT
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 TCAAAACTCTGCCGATAAACTACAGACCTCCATCCCACATGGGAATTTCTATTCCACTCACAGATAATTT
 TTATCATGCAGACCCCTAGCAAACCCATACCGAGAAATCAATTTCAACAAGTCAAAGGAAAATGGCAAATAC
 AAACAGTGTGCTAATGTTACCAGTCGGGCAATGTGCAACTGCTCAGAACATCAAAGTTTTCCCATGCTG
 TTGCTTTCTCAGATTGCAAAGAAAAGGTTTCATCGTTTCAAGTTTCCAGTCACACAATACCCAGTTGTTTT
 GGAATTTTTCAATGAAAGAGACAAAATCTCCGCAGAACCTCCGTATTTAGTTACCATGACTGAAGTGAAT
 ATGAGGAAAACTGGCAACTAAAACACAATGAGCCAGAAAACGTTAAGAAAATGAAGCATTACTTAGAGC
 CACTGCTTAAGACTCCAGTGTATAATCCTTTAGGTCTCAACCTAACCATACAGGGCTCTGAAGTGTTC
 CTTCAAGGTGTCTGTGGTTCCTGGAGTCAGCTTTTGTGAGTTAAGTGAAGAATTTAGATTTATGTCGAC
 GAAGTCCCATTGCCTTTTCCAGGACATGCATAATAGCTGTGCAACATCTGTAGTCTAGGAGATTAA
 TTTTTATAGCATTGTATTCCAACCTGCCTAACATCCACCCACTGAAGGCATTGAAGAAATCTATTAGGGG
 AAATCCTGGACTCACCTCAAGTACAACCTGTAGCTCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_173023
- Insert Size:** 3330 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_173023.2](#), [NP_766611.2](#)

RefSeq Size: 3716 bp

RefSeq ORF: 3330 bp

Locus ID: 271036

UniProt ID: A2RTF1

Cytogenetics: 12 E

Gene Summary: Probably involved in sperm cell hyperactivation via its association with CATSPER1. Sperm cell hyperactivation is needed for sperm motility which is essential late in the preparation of sperm for fertilization.[UniProtKB/Swiss-Prot Function]