

## Product datasheet for MR218297

### Pate4 (NM\_020264) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pate4 (NM\_020264) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pate4  
**Synonyms:** 9530004K16Rik; Pate-B; Svs7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR218297 representing NM\_020264  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATTCAGTGACGAAAATCAGCACACTGCTCATCGTGATTTTATCCTTTCTGTGTTTTGTGGAGGGTC  
TGATCTGTAATTCATGTGAAAAGTCACGAGATTCAAGATGTACAATGTCACAAAGCAGATGCGTTGCAAA  
ACCTGGTGAATCATGCAGTACCGTATCACACTTTGTTGGAACAAAGCATGTGTAAGCAAATGTGC  
TCGCCTCAGTGAAGGAAAAACAGCTTAACACTGGAAAGAAGTTGATTTACATAATGTGCTGCGAAAAAA  
ACTTGTGTAATAGCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218297 representing NM\_020264  
Red=Cloning site Green=Tags(s)  
MNSVTKISTLLIVILSFLCFVEGLICNSCEKSRDSRCTMSQSRCAKPGESCSTVSHFVGTKHVYSKQMC  
SPQCKEKQLNTGKKLIYIMCCEKNLNSF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2510\\_e11.zip](https://cdn.origene.com/chromatograms/ja2510_e11.zip)

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



ACCN: NM\_020264

ORF Size: 297 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\\_020264.4](#), [NP\\_064660.2](#)

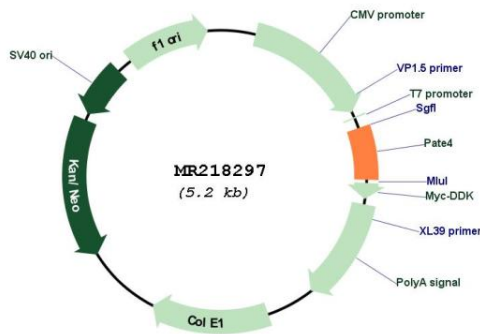
RefSeq Size: 1016 bp

RefSeq ORF: 300 bp

Locus ID: 56872

UniProt ID: [Q09098](#)  
 Cytogenetics: 9 A4  
 MW: 11.5 kDa  
 Gene Summary: Enhances sperm motility. Binds to calmodulin and inhibits calcium transport into spermatozoa. May modulate the function of nicotinic acetylcholine receptors. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR218297