

## Product datasheet for **RR206839**

### **Ptger4 (NM\_032076) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptger4 (NM_032076) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptger4
Synonyms:	EP4; Ptger; Ptgerep4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR206839 representing NM\_032076  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCATCCCCGGAGTCAACGCGTCTTCTCCTCCACTCCGGAGAGTTGAACAGCCCAGTGACCATTCC  
 CCGCAGTGATGTTTATCTTCGGGGTGGTGGGCAACCTGGTGGCCATCGTAGTATTGTGCAAGTCGCGCAA  
 GGAGCAGAAGGAGACTACCTTTTACACTCTGGTATGTGGGCTGGCTGTCCTGACCTACTGGGCACATTG  
 TTGGTAAGCCAGTGACCATCGCCACATACATGAAGGGCCAGTGGCCCGGAGACCAGGCATTGTGTGACT  
 ACAGCACCTTCACTACTTTTCTTCGGCTGTGGGTCTCAGCATCATCTGTGCCATGAGCATTGAGCG  
 CTACCTGGCCATCAACCACGCCTACTTCTACAGCCACTACGTGGACAAGCGGCTGGCCGGTCTCACGCTC  
 TTCGCCGTCTATGCATCTAACGTGCTTCTGCGCACTGCCAACATGGGCTGGTAGGTCGAGCGGC  
 AGTACCCGGGACCTGGTCTTCATCGACTGGACCACCAACGTAACGGCCTACGCCCTTCTCTTACAT  
 GTACGCGGGCTCAGTTCCTTCTCATCTCGCCACCGTCTGCAATGTGCTGGTGTGGCGCGCGCTG  
 CTCGCGATGCACCGCCAGTTCATGCGCCGACCTCGCTGGGCACGGAGCAGCACCACGCGGCCGCTGCAG  
 CAGCGGTGGCTTCGGTGGCTGTGGGGTACGCGGCCGCTCCCCAGCCCTGCAGCGCCTCAGTGACTT  
 TCGCCGCCGAGGAGCTTCGGCGCATCGCGGGTGCAGAGATCCAGATGGTTCATCTTACTCATCGCCACC  
 TCTCTGGTGGTGTCTATGCTCCATTCGCTCGTGGTGGAGTGTTCATCAACCAGTTATATCAGCCAA  
 GTGTGGTAAAGACATCAGCAGAAACCCGGATTTCAGGCCATCAGAATTGCTTCTGTGAACCCATCCT  
 GGACCTTGGATCTACATCCTTCTTCGGAAGACTGTGCTCAGTAAAGCCATAGAAAAGATCAAGTGCCCT  
 TTCTGCCGATTGGTGGTCTGGCAGAGACGGTTCAGCACAGCACTGCTCAGAGAGTCCGAGGACATCTT  
 CTGCCATGTCTGGCCACTCCCGCTCCTTCTCTCGCGGGAGTTGAGGGAGATCAGCAGCACCTCTCAGAC  
 CCTCCTATACCTGCCAGACCTAACTGAAAGCAGCCTCGGAGGCAAGAATTTGCTTCCAGGTACGCATGGC  
 ATGGGCTGACCAAGCAGACACCACCTCGCTGAGAACTTTCGAATTTAGAGACCTCAGACTCCTCCC  
 AGGGCCAGGACTCTGAGAGTGTCTTGTGGTGGATGAGGTTAGTGGGAGCCAGAGAGAGGAGCCTGCCTC  
 TAAGGGAACTCTCTGCAAGTACGTTCCCAAGTAAACGCTGAAATTATCTGAAAAATGTATA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206839 representing NM\_032076  
 Red=Cloning site Green=Tags(s)

MSIPGVNASFSSTPERLNSPVTIPAVMFIQVVGNLVAIVVLCKSRKEQKETTFFYTLVCLAVTDLLGTL  
 LVSPVTIATYMKQWPGDQALCDYSTFILLFFGLSGLSIIICAMSIERYLAINHAYFYSHYVDKRLAGLTL  
 FAVYASNVLFCALPNMGLGRSERQYPGTWCFIDWTTNVTAYAASFYMYAGFSSFLILATVLCNVLVCGAL  
 LRMHRQFMRRRTSLGTEQHHAHAHAASVASVACRGHAAASPALQRLSDFRRRRSFRRRIAGAEIQMVILLIAT  
 SLVVLICSIPLVVRVFINQLYQPSVVKDISRNPDLQAIRIASVNPILDPWIYILLRKTVLSKAIEKIKCL  
 FCRIIGSGRDGSAQHCSERRTSSAMSGHSRFLSRELREISSTSQTLLYLPDLTESSLGKNLLPGTHG  
 MGLTQADTTSLRTLRISETSDSSQGQDSESVLLVDEVSGSQREEPASKGNSLQVTFPSETLKLSEKCI

**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2057\\_a04.zip](https://cdn.origene.com/chromatograms/ja2057_a04.zip)

**Restriction Sites:**

Sgfl-RsrII

Cloning Scheme:



ACCN: NM\_032076

ORF Size: 1464 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

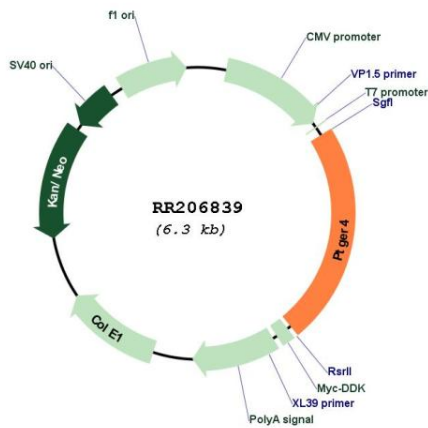
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_032076.3](#), [NP\\_114465.3](#)  
**RefSeq Size:** 1473 bp  
**RefSeq ORF:** 1467 bp  
**Locus ID:** 84023  
**UniProt ID:** [P43114](#)  
**Cytogenetics:** 2q16  
**MW:** 53.8 kDa  
**Gene Summary:** binds prostaglandin estradiol (PGE(2)) and induces cAMP-dependent bone resorption [RGD, Feb 2006]

**Product images:**



Circular map for RR206839