

Product datasheet for **MR226174**

Ptger4 (NM_008965) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptger4 (NM_008965) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptger4
Synonyms:	EP4; Ptgerep4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR226174 representing NM_008965
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGAGGTTGGAGGTACCATTCTAGATCGAACCCTGAGCTCCAACGCTGTGTGTTACTAACCACCA
 CCATCATGTCCATCCCCGAGTCAACGCGTCCTTCTCCTCCACTCCGGAGAGGCTGAACAGCCCGGTGAC
 CATTCCCGCAGTGATGTTTCATCTTCGGGGTGGTGGCAACCTGGTGGCCATCGTAGTATTGTGCAAGTCG
 CGCAAGGAGCAGAAAGAGACGACCTTTTACACTTAGTATGTGGGCTGGCTGTCAGTACTTCTGGGCA
 CCTTGTGGTAAGCCCGTGACCATCGCCACATACATGAAGGGCCAGTGGCCCGGAGACCAGGCACTGTG
 TGAATATAGCACCTTCATCTACTTTTCTCGGTCTGTCGGGTCTCAGCATCATCTGTGCCATGAGCATC
 GAGCGTACTGGCCATCAACCACGCTACTTCTACAGCCACTACGTGGACAAGCGGCTGGCCGGCCTCA
 CACTCTTCGCCATCTATGCATCTAACGTGCTGTTCTGCGCGCTGCCAACATGGGCTGGCAGATCCGA
 GCGGCAGTACCCGGCACCTGGTCTTCATCGACTGGACCACCAACGTAACGGCCTACGCCGCTTCTCT
 TACATGTACGCCGCTTACGCTCCTTCCATCCTTGCCACCGTCTGCAACGTGCTGGTGTGGCGCG
 CGCTGCTCCGCATGCACCGCCAGTTCATGCGCCGACCTCGTTGGGACCGGAGCAGCACCATGCGGCTGC
 CGCCGCCGCGGTAGCTTCGGTGGCTGTGGGGCCACGCTGGGGCCTCCCAGCCCTGCAGCGCCTCAGC
 GACTTTCCGCCCGCAGGAGTTTCCGGCGCATCGCGGGTGGGAGATCCAGATGGTCATCTTACTCATCG
 CCACCTCTCTGGTGGTGCATCTGTCCATTCCGCTCGTGGTGGGAGTGTTCATTAACCAAGTATATCA
 GCCAAACGTGGTAAAGACATCAGCAGAAACCCAGATTTGAGGCCATCAGGATTGCTTCTGTGAACCC
 ATCCTGGACCCCTGGATTACATCCTTCTCGGAAGACTGTGCTCAGTAAAGCCATAGAGAAGATCAAGT
 GCCTCTTCTGCCGATTGGCGGTTCCGGCAGAGACAGCTCGGCCAGCACTGCTCAGAGAGTCGGAGGAC
 ATCTTCCGCCATGTCGGCCACTCTCGCTCCTTCCGCGCGGAGTTAAAGGAGATCAGCAGCAGTCC
 CAGACCCTCCTGTACCTGCCAGACCTGACTGAAAGCAGCCTCGGAGGAGGAATTTGCTTCCAGTTTCGC
 ATGGCATGGGCTGACCAAGCAGACACCCTCGCTGAGAACTTTGCGAATTTCCGAGACCTCAGACTC
 TCCCAGGGCCAGGACTCTGAGAGTGTCTGTTGGTGGATGAGGTTAGTGGGAGCCACAGAGAGGAGCCT
 GCCTCTAAAGGAACTCTGCAAGTCACATCCCAAGTAAACTCTGAAATTATCTGAAAAATGTATA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226174 representing NM_008965
 Red=Cloning site Green=Tags(s)

MAEVGGTIPRSNRELQRCVLLTTTMSIPGVNASFSSTPERLNSPVTIPAVMFIQVVGNLVAIVLCKS
 RKEQKETTFFYTLVCLAVTDLLGTLVSPVTIATYMKQWPGDQALCDYSTFILLFFGLSGLSIIICAMSI
 ERYLAINHAYFYSHYVDKRLAGLTLFAIYASNVLFALPNMGLGRSERQYPGTWCFIDWTTNVTAYAFS
 YMYAGFSSFLILATVLCNVLVCGALLRMHRQFMRRSLGTEQHHAASVAVACRGHAGASPALQRLS
 DFRRRRSFRRIAGAEIQMVILLIATSLVVLICSIPLVVRVFINQLYQPNVVKDISRNPDLQAIRIASVNP
 ILDPWIYILLRKTVLKAIEKIKLFCRIGGSGRDSSAQHCSESRRSSAMSGHSRSFLARELKEISSTS
 QTLLYLPDLTESSLGGRNLLPGSHGMGLTQADTTLRLRISSETSDSSQGDSESVLLVDEVSGSHREEP
 ASKGNLQVTFPSETLKLSEKCI

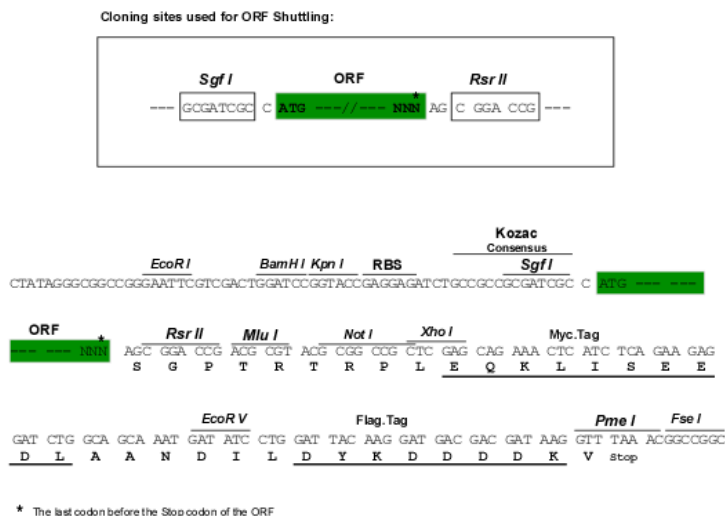
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9030_h04.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_008965

ORF Size: 1539 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_008965.2](#), [NP_032991.1](#)

RefSeq Size: 2442 bp

RefSeq ORF: 1542 bp

Locus ID: 19219

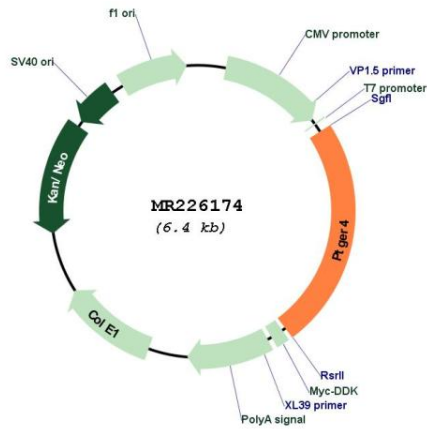
UniProt ID: [P32240](#)

Cytogenetics: 15 1.99 cM

MW: 56.6 kDa

Gene Summary: Receptor for prostaglandin E2 (PGE2). The activity of this receptor is mediated by G(s) proteins that stimulate adenylate cyclase. Has a relaxing effect on smooth muscle. May play an important role in regulating renal hemodynamics, intestinal epithelial transport, adrenal aldosterone secretion, and uterine function.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226174