

Product datasheet for **MR226255**

Ptger4 (NM_001136079) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptger4 (NM_001136079) 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:

>MR226255 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCATCCCCGGAGTCAACGCGTCTTCTCCTCCACTCCGGAGAGGCTGAACAGCCCCGGTGACCATTC
 CCGCAGTGATGTTTCATCTTCGGGGTGGTGGCAACCTGGTGGCCATCGTAGTATTGTGCAAGTCGCGCAA
 GGAGCAGAAAGAGACGACCTTTTACACTCTAGTATGTGGGCTGGCTGTCACTGACCTTCTGGGCACCTTG
 TTGGTAAGCCCCGGTGACCATCGCCACATACATGAAGGGCCAGTGGCCCGGAGACCAGGCACTGTGTGACT
 ATAGCACCTTCATCCTACTTTTCTCGGTCTGTCGGGTCTCAGCATCATCTGTGCCATGAGCATCGAGCG
 CTACCTGGCCATCAACCACGCCTACTTCTACAGCCACTACGTGGACAAGCGGCTGGCCGGCTCACACTC
 TTGCCATCTATGCATCTAACGTGCTTCTGCGCGTGCCAACATGGGCTGGCAGATCCGAGCGGC
 AGTACCCGGGCACCTGGTCTTCATCGACTGGACCACCAACGTAACGGCCTACGCCGCTTCTCTTACAT
 GTACGCCGGCTTCACTCCTTCTCATCTTGGCACCGTCTGCAACGTGCTGGTGTGCGGCGCGCTG
 CTCCGCATGCACCGCCAGTTCATGCGCCGCACCTCGTTGGGCACGGAGCAGCACCATGCGGCTGCCGCC
 CCGCGGTAGCTTCGGTGGCTGTGCGGGCCACGCTGGGCTCCCCAGCCCTGCAGCGCCTCAGCGACTT
 TCGCCGCCGAGGAGTTTCCGGCGCATCGCGGGTCCGGAGATCCAGATGGTCATCTTACTCATCGCCACC
 TCTCTGGTGGTCTCATCTGCTCCATTCGCTCGTGGTGGCAGTGTTCATTAACCAAGTTATATCAGCCAA
 ACGTGGTGAAGACATCAGCAGAAACCCAGATTTGAGGCCATCAGGATTGCTTCTGTGAACCCATCCT
 GGACCCCTGGATTTACATCCTTCTTCGGAAGACTGTGCTCAGTAAAGCCATAGAGAAGATCAAGTGCCCT
 TTCTGCCGATGGCGGTTCCGGCAGAGACAGCTCGGCCAGCACTGCTCAGAGAGTCGGAGGACATCTT
 CCGCCATGTCCGGCCACTCTCGCTCCTTCTCGCCGGGAGTTAAAGGAGATCAGCAGCAGTCCAGAGC
 CCTCCTGTACCTGCCAGACCTGACTGAAAGCAGCCTCGGAGGCAGGAATTTGCTTCCAGGTTCCGATGGC
 ATGGGCTGACCAAGCAGACACCACCTCGCTGAGAACTTTGCGAATTTCCGAGACCTCAGACTCCTCCC
 AGGGCCAGGACTCTGAGAGTGTCTGTTGGTGGATGAGGTTAGTGGGAGCCACAGAGAGGAGCCTGCCTC
 TAAAGGAACTCTCTGCAAGTCACATTCGCCAGTGAACCTCTGAAATTATCTGAAAAATGTATA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226255 protein sequence
 Red=Cloning site Green=Tags(s)

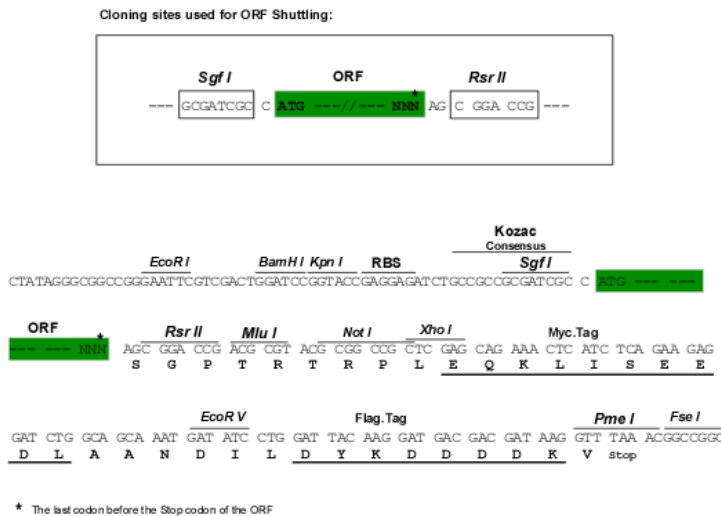
MSIPGVNASFSSTPERLNSPVTIPAVMFIQVVGNLVAIVVLCKSRKEQKETTFFYTLVCLAVTDLLGLT
 LVSPVTIATYMKQWPQDQALCDYSTFILLFFGLSGLSIIICAMSIERYLAINHAYFYSHYVDKRLAGLTL
 FAIYASNVLFCALPNMGLGRSERQYPGTWCFIDWTTNVTAYAAF SYMYAGFSSFLILATVLCNVLVCAL
 LRMHRQFMRRSLGTEQHHAATAAVASVACRGHAGASPALQRLSDFRRRRSFRRRIAGAEIQMVILLIAT
 SLVVLICSIPLVVRVFINQLYQPNVVKDISRNPDLQAIRIASVNPILDPWIYILLRKTVL SKAIEKIKCL
 FCRIIGSGRDSSAQHCSESRTSSAMSGHSRFLARELKEISSTSQTLLYLPDLTESSLGRRNLLPGSHG
 MGLTQADTTSLRTRLRISETSDSSQGQDSESVLLVDEVSGSHREEPASKGNSLQVTFPSETLKLSEKCI

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001136079

ORF Size: 1467 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 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_001136079.2](#)

RefSeq Size: 3327 bp

RefSeq ORF: 1467 bp

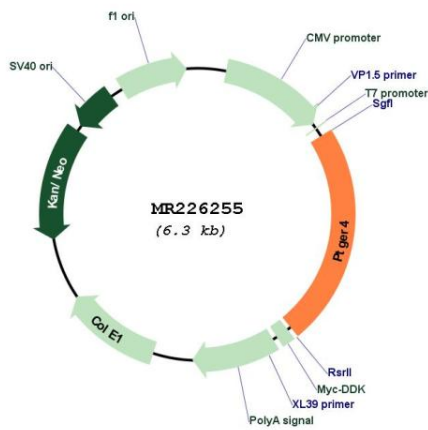
Locus ID: 19219

Cytogenetics: 15 1.99 cM

MW: 53.4 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 MR226255