

## Product datasheet for MR225549

### Ptger1 (NM\_013641) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptger1 (NM\_013641) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ptger1  
**Synonyms:** 42kDa; EP1; Ptgerp1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225549 representing NM\_013641  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCCCTGCGGGCTTAACCTGAGCCTAGCGGATGAGGCAGCAACGTGCGCAACACCCAGGCTCCCCA  
 ATACATCTGTGGTGTGCCAACAGGCGATAATGGCACATCACCAGCGCTGCCTATCTTCTCCATGACGCT  
 GGGTGTGTGTCCAACGTGCTGGCGCTGGCGTCTGGCCAGGTTGCAGGCCAATGCGGCGGCCCGC  
 TCGGCTGCCACCTTCTGTTGTTGTCGTCGCCAGCCTGCTTGCCATCGACCTAGCAGGCCATGTGATCCCG  
 GCGCCCTGGTGTTCGCCTGTATACTGCGGGCGTGCCTGCTGGAGGGCGTGCATTCTCTGGGTGG  
 CTGCATGGTCTTCTCGCCTGTGCCACTTTTGCCTGGCTGTGGCATGGCCGTAGAGCGCTGTGTGGT  
 GTCACGCAGCCACTGATCCACGCGCGCGCGTATCTGTGGCCCGCGCACGCCCTGGCACTAGCCGTGCTGG  
 CTGCCATGGCTTTGGCAGTGGCGCTGCTGCCACTGGTACACGTGGGTGCGTACGAGTTACAGTACCCCTGG  
 CACCTGGTGTATTTAGCCTTGGGCTCGTGGAGGTTGGCGCCAGGCGTTGCTTGGCGGCTCTTCGCC  
 GGCCTTGGCCTGGCCGCGCTCCTTGGCGCATTAGTGTGCAATACGCTCAGCGGCTGGCGCTCCTCCGTG  
 CCCGCTGGAGACGGCGTCTCGACGATTCCGAAAGACCGCAGGTCGGATGATCGCCGGCGCTGGGG  
 ATCTCGTGACCCCGCTTGGCCTCCGCTCGTCTGCCTCATCCATCACTTACGCCACAGCCACCCCTCCG  
 AGCTCTCGGGCGCGGCTCCGCGCGCAGGTTACGCACACGATGTGAAATGGTGGCCAGCTCGTGG  
 GCATCATGGTGGTGTGTCATCTGCTGGAGCCCTGCTGGTGTGGTGGTGGTGGCCATCGGGGGCTG  
 GAACTCTAACTCCCTGCAGCGGCCACTCTTCTGGCTGTACGCCTCGCATCGTGGAAACCAGATCCTGGAC  
 CCATGGGTGTACATCCTGCTGCGCCAGGCCATGCTGCGCCAAGTCTTCCCTCCTACCCCTGAGGGTCA  
 GTGCCAAGGGTGGTCCAACGGAGCTGGCCTAACCAAGAGTGCCTGGGAAGCCAGTTCAGCTGCGTAGTTC  
 CCGGCACAGTGGTTTCAGTACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225549 representing NM\_013641  
 Red=Cloning site Green=Tags(s)

MSPCGLNLSLADEAATCATPRLPNTSVVLPTGDNGTSPALPIFSMTLGAVSNVLALALLAQVAGRMRRRR  
 SAATFLLFVASLLAIDLGHVIPGALVLRLYTAGRAPAGGACHFLGGCMVFFGLCPLLLGCGMAVERCVG  
 VTQPLIHAARVSVARARLALAVLAAMALAVALLPLVHVGRYELQYPGTWCFISLGPGRGWRQALLAGLFA  
 GLGLAALLAALVCNTLSGLALLRARWRRRRSRRFRKTAGPDDRRRWGSRGPRLASASSASSITSATLRR  
 SSRGGGSARRVHAHDVEMVQQLVGMVVSICWSPLLVLLVLAIGGWNSNSLQRPLFLAVRLASWNQILD  
 PWYIILLRQAMLRQLRLLPLRVSAKGGPTLGLTKSAWEASSLRSSRHSGFSHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013641

**ORF Size:** 1215 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\\_013641.3](#)

**RefSeq Size:** 2082 bp

**RefSeq ORF:** 1218 bp

**Locus ID:** 19216

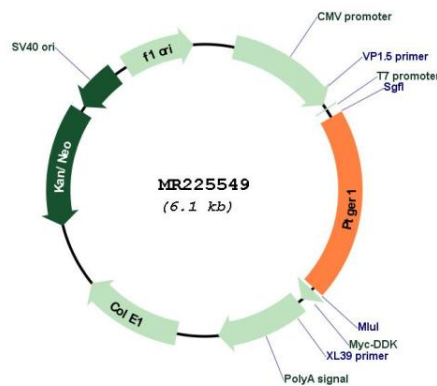
**UniProt ID:** [P35375](#)

**Cytogenetics:** 8 40.22 cM

**MW:** 43.4 kDa

**Gene Summary:** Receptor for prostaglandin E2 (PGE2). The activity of this receptor is mediated by G(q) proteins which activate a phosphatidylinositol-calcium second messenger system. May play a role as an important modulator of renal function. Implicated the smooth muscle contractile response to PGE2 in various tissues.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR225549