

Product datasheet for **RR216582**

Ptger1 (NM_001278475) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptger1 (NM_001278475) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptger1
Synonyms: EP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR216582 representing NM_001278475
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCCTACGGGCTTAACCTGAGCCTAGTGGATGAGGCAACAACGTGTGAACACCCAGGGTCCCCA
ATACATCTGTGGTGTGCCAACAGGCGGTAACGGCACATCACCAGCGCTGCCTATCTTCTCCATGACGCT
GGGTGTGTGTCCAACGTGCTGGCGTGGCGTCTGGCCAGGTTGCAGGCAGACTGCGGCGCCGCCGC
TCGACTGCCACCTTCTGTTGTTGTCGTCGCCAGCCTGCTTGCCATCGACCTAGCAGGCCATGTGATCCCGG
GCGCCTTGGTGTTCGCCTGTATACTGCAGGACGTGCGCCGCTGGCGGGCCTGTCAATTCCTGGGCGG
CTGCATGGTCTTCTTTGGCCTGTGCCACTTTTGCCTGGCTGTGGCATGGCCGTGGAGCGCTGCGTGGGT
GTCACGCAGCCGCTGATCCACGCGGCGCGCTGTCCGTAGCCCGCGCACGCCCTGGCACTAGCCCTGCTGG
CCGCCATGGCTTTGGCAGTGGCGCTGCTGCCACTAGTGCACGTGGGTCACTACGAGCTACAGTACCTGG
CACTTGGTGTTCATTAGCCTTGGGCTCCTGGAGGTTGGCGCCAGGCGTTGCTTGGGGCTCTTCGCC
GGCCTTGGCCTGGCTGCGCTCCTTGCCGACTAGTGTGTAATACGCTCAGCGCCTGGCGCTCCTTCGTG
CCCCTGGAGGCGCGCTCGCTCTCGACGTTTCCGAGAGAACGCAGGTCGGATGATCGCCGGCGCTGGGG
GTCCCCTGGACTCCGCTTGGCCTCCGCTCGCTGCGTCATCCATCACTCAACACAGCTGCCCTCCGC
AGCTCTCGGGAGGCGGCTCCGCGCGCAGGTTACGCACACGACGTGGAATGGTGGCCAGCTCGTGG
GCATCATGGTGGTTTCGTGCATCTGCTGGAGCCCTGCTGGTATTGGTGGTGGTGGCCATCGGGGGCTG
GAACTCTAACTCCCTGCAGCGGCGCTCTTCTGGCTGTACGCTCGCGTGGAAACCAGATCCTGGAC
CCATGGGTGTACATCCTGCTGCGCCAGGCTATGCTGCGCAACTTCTTCGCTCCTACCCCTGAGGGTTA
GTGCCAAGGGTGGTCCAACGGAGCTGAGCCTAACCAAGAGTGCCTGGGAGGCCAGTTCAGTGCATGCTC
CCGGCACAGTGGCTTCAGCCACTG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR216582 representing NM_001278475
 Red=Cloning site Green=Tags(s)

MSPYGLNLSLVDEATTCVTPRPVNTSVVLPTGGNGTSPALPIFSMTLGAVSNVLALALLAQVAGRLRRRR
 STATFLLFVASLLAIDLAGHVIPGALVLRLYTAGRAPAGGACHFLGGCMVFFGLCPLLLGCGMAVERCVG
 VTQPLIHAARVSVARARLALALLAAMALAVALLPLVHVGHYELQYPGTWCFISLGGPPGGWRQALLAGLFA
 GLGLAALLAALVCNTLSGLALLRARWRRRRSRRFRENAGPDRRRRWGSRGLRLASASSASSITSTTAALR
 SSRGGGSARRVHAHDVEMVQQLVGMVVSICWSPLLVLLVLAIGWNSNSLQRPLFLAVRLASWNQILD
 PWYIILLRQAMLRQLRLLPLRVSAKGGPTELSLTKSAWEASSLRSSRHSGFSHL

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_001278475

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_001278475.1](#), [NP_001265404.1](#)

RefSeq Size: 1924 bp

RefSeq ORF: 1218 bp

Locus ID: 25637

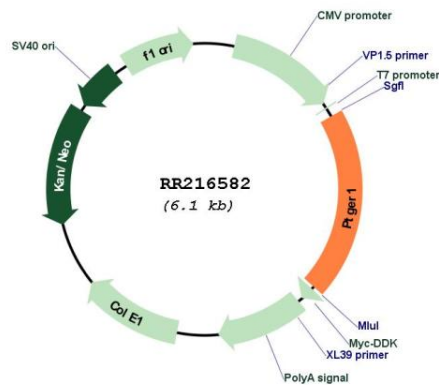
UniProt ID: [P70597](#)

Cytogenetics: 19q11

MW: 43 kDa

Gene Summary: binds prostaglandin E2; plays a role in G-protein coupled receptor signaling and Ca²⁺ mobilization [RGD, Feb 2006]

Product images:



Circular map for RR216582