

Product datasheet for RR212216

Ptger2 (NM_031088) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ptger2 (NM_031088) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Ptger2
 Synonyms: EP2; Ptger-ep2
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR212216 representing NM_031088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACAATTCCTTCAATGACTCCAGGCGAGTGGAGAAGTGGAGAGTCGTCACTATCTCCTTTCCGACG
 AAAGCCCAGCCATCAGCTCGGTGATGTTACGGCCGGGTTCTGGGAAACCTCATCGCGTGGCACTGTT
 GGCGCGCCGCTGGCGTGGGGACACGGGGTGTAGCGCCGGCAGCAGGACCTCTATCTCCTTGTCCACGTG
 CTGTTAACGGAAGTGGTCTCACCGACCTGCTGGGGACCTGCCTCATAAGCCGGTGGTGTGGCTTCTT
 ATTCGAGAAACCAGACCCTAGTGGCCCTGGCTCCCGAAAGCCGCGGTGTACCTATTTCCGCTTTCACCTAT
 GACCTTCTTTAGTCTGGCCACGATGCTCATGCTCTTCGCCATGGCCCTGGAACGCTACCTCGCCATCGGA
 CACCCCTACTTCTACAGGCGCCGCTCTCTCGCCGCGGGGTTTGGCGGTGCTGCCTGCCATCTATGGGG
 TCTCCTTGCTCTTCTGTTCTCTGCCGCTGCTCAACTACGGGGAGTACGTCCAGTACTGCTCTGGGACGTG
 GTGCTTTATCCAGCACGGGAGGACCGCATACCTTCAGCTGTACGCCACGGTGTCTCTGCTGCTCATCGTG
 GCTGTGCTCGGCTGCAACATCAGTGTGATCCTCAACCTTATTCGCATGCAGCTTCGGAGCAAAAAGGCC
 GCTGCGGATTGTCTGGCAGTAGCCTGAGAGGCCCGGGTCTCGCCGAGAGGAGAAAAGGACTTCTATGGC
 GGAGGAGACGGACCACCTCATTCTCTGGCCATTATGACCATCACCTTCGCTGTATGCTCCCTGCCCTTTT
 ACAATCTTTGCTTATATGGATGAAACCTTCCCGAAAGGAAAAGTGGGACCTCCGACTTTAGATTTT
 TATCAGTGAACCTCATAATTGATCCTTGGGTTTTGTATCCTTAGACCACAGTCTGAGACTAATGCG
 CTCAGTCTCTGTTGTCGGACTTCACTGAGAGCACCGGAAGCTCCAGGAGCTTCTGTTCCAGCCAGCAG
 ACGGACCTCTGCGGACAGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR212216 representing NM_031088
Red=Cloning site Green=Tags(s)

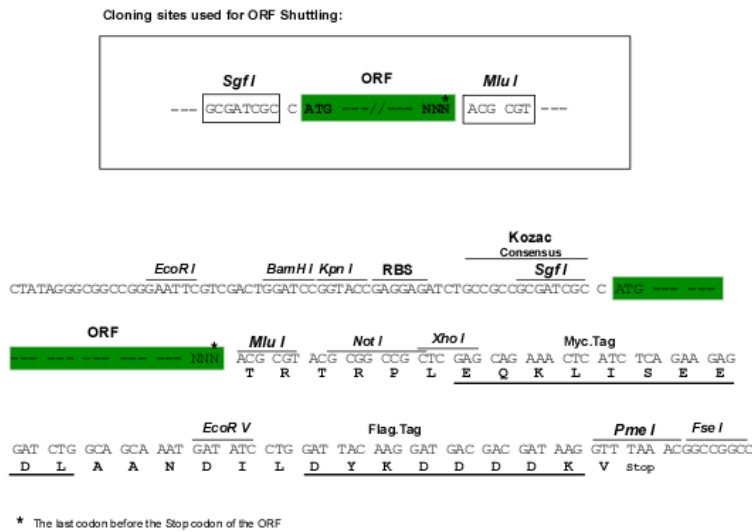
MDNSFNDSRRVENCESRQYLLSDESPAISSVMFTAGVLGNLIALALLARRWRGDTGCSAGSRTSISLFHV
 LVTELVLDLLGTCLISPVVLASYSRNQTLVALAPESRACTYFAFTMTFFSLATMLMLFAMALERYLAIG
 HPYFYRRRVSRRGGLAVLPAIYGVSLFCSLPLLNYGEYVQYCPGTWCFIQHGRTAYLQLYATVLLLLIV
 AVLGCNISVILNLRMQLRSKRSRCLSGSSLRGPGSRRRGERTSMAEETHDHLILLAIMTITFAVCSLPF
 TIFAYMDETSRKEKWDLRALRFLSVNSIIDPWVVFVILRPPVLRMLMRSVLCRRTSLRAPEAPGASCSTQQ
 TDLCGQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2031_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



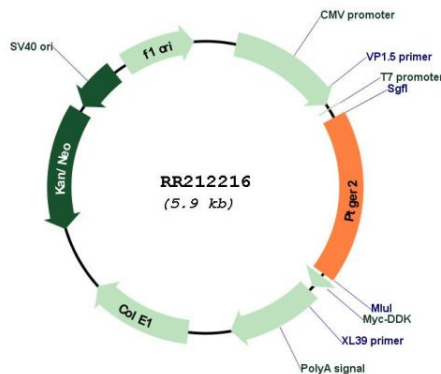
ACCN: NM_031088

ORF Size: 1071 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:	<ol style="list-style-type: none"> 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:	<u>NM_031088.1</u> , <u>NP_112350.1</u>
RefSeq Size:	1360 bp
RefSeq ORF:	1074 bp
Locus ID:	81752
UniProt ID:	<u>Q62928</u>
Cytogenetics:	15p14
MW:	40.2 kDa
Gene Summary:	binds prostaglandin E2 and induces increased cAMP; may play a role in skeletal growth [RGD, Feb 2006]

Product images:


Circular map for RR212216