

Product datasheet for MR212129

Ptger2 (NM_008964) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptger2 (NM_008964) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptger2
Synonyms: EP2; Ptgerep2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR212129 representing NM_008964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGACAATTTCTTAATGACTCCAAGCTAATGGAGGACTGCAAGAGTCGTCAGTGGCTCCTTCGGGGG
 AAAGCCCAGCCATCAGCTCGGTGATGTTCTCGGCCGGGTTCTGGGGAATCTCATCGCACTGGCACTGTT
 GGCGCGCCGCTGGCGTGGGGACACCGGGTGTAGCGCCGGCAGCAGGACCTCTATCTCCTTGTTCACGTG
 CTGTAACGGAATTGGTCTCACTGACCTGCTGGGAACCTGCCTCATCAGCCCGTGGTGTGCTTTCAT
 ATCAAGAAACCAGACCCTGGTGGCCCTGGCTCCCGAAAGTCACGCGTGTACCTATTTTCGCTTTCATAT
 GACCTTCTTTAGTCTGGCCACGATGCTCATGCTCTTCGCTATGGCCCTGGAACGCTACCTCTCCATCGGG
 TACCCTTACTTCTACAGGCGCCACTTATCGCGCCGCGGGGTCTGGCGGTGCTGCCTGTCATCTATGGGG
 CCTCCTTGCTCTTCTGTTCCCTGCCGCTGCTCAACTACGGGGAGTACGTCCAGTACTGCTCTGGGACATG
 GTGCTTTATCCGGCAGGGGAGGACTGCATACCTTCAGCTGTACGCCACGATGCTCCTGCTGCTTATCGTG
 GCTGTGCTCGCCTGCAACATCAGCGTTATCCTCAACCTCATTTCGCATGCACCGTCGGAGCAGAAGAAGCC
 GCTGCGGATTGTCTGGCAGTAGCCTAAGAGGCCCTGGATCTCGCAGGAGAGGAGAGGACTTCGATGGC
 AGAGGAGACGGACCACCTCATTCTCTGGCCATTATGACCATCACCTTCGCCATATGCTCCTTGCCTTTC
 ACAATCTTTGCCCTACATGGATGAAACCTTCCCTAAAGGAAAAGTGGGACCTCCGAGCTCTTCGGTTTT
 TATCAGTTAACTCTATAATTGACCTTGGGTCTTTGCCATACTTAGGCCACCGGTCTGAGGTTAATGCG
 CTCACTCTCTGTTGTCGGACTTCACTGAGAACAAGAAGCTCAGCAAACATCCTGTTCTACCCAGTCC
 AGTGCCAGTAAACAGACTGACCTTTGTGGACAGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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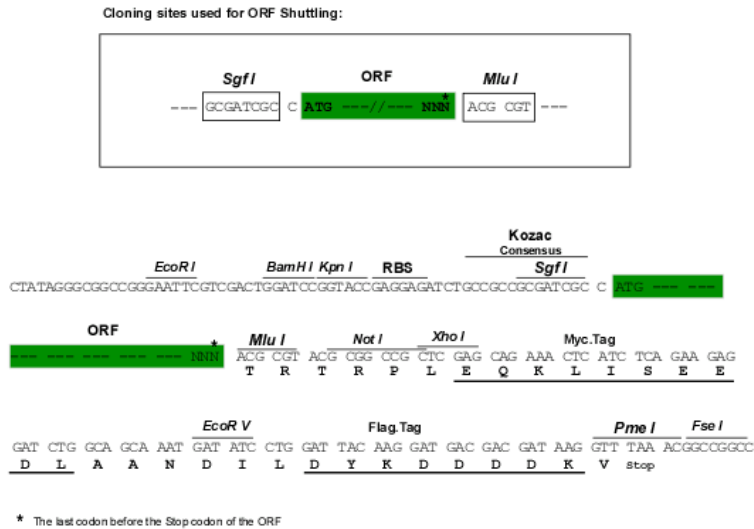
Protein Sequence: >MR212129 representing NM_008964
Red=Cloning site Green=Tags(s)

MDNFLNDSKLMEDCKSRQWLLSGESPAISSVMFSAGVLGNLIALALLARRWRGDTGCSAGSRTSISLFHV
 LVTELVLTDLLGTCLISPVVLASYSRNQTLVALAPES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008964

ORF Size: 1086 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.

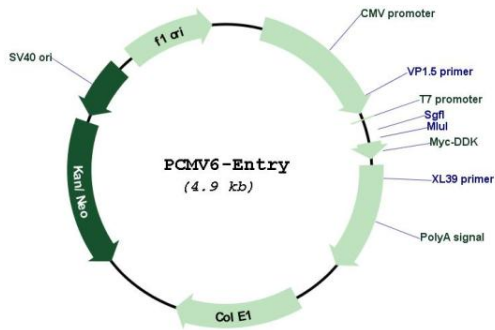
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008964.4](#)
 RefSeq Size: 2618 bp
 RefSeq ORF: 1089 bp
 Locus ID: 19217
 UniProt ID: [Q62053](#)
 Cytogenetics: 14 22.68 cM
 MW: 40.9 kDa

Gene Summary: Receptor for prostaglandin E2 (PGE2). The activity of this receptor is mediated by G(s) proteins that stimulate adenylate cyclase. The subsequent raise in intracellular cAMP is responsible for the relaxing effect of this receptor on smooth muscle.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212129