

Product datasheet for **RG210883**

EP2 (PTGER2) (NM_000956) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EP2 (PTGER2) (NM_000956) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: EP2
Synonyms: EP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210883 representing NM_000956
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAATGCCTCCAATGACTCCCAGTCTGAGGACTGCGAGACGCGACAGTGGCTTCCCCAGGCGAAA
GCCAGCCATCAGCTCCGTCATGTTCTCGGCCGGGGTGTGGGAACTCATAGCACTGGCGTCTGCGC
GCGCCGCTGGCGGGGGACGTGGGTGCAGCGCCGGCCGAGGAGCTCCCTCTCCTTGTCCACGTGCTG
GTGACCGAGCTGGTGTCCACCGACTGCTCGGGACCTGCCTCATCAGCCAGTGGTACTGGCTTCGTACG
CGCGGAACCAGACCCTGGTGGCACTGGCGCCGAGAGCCGCGCGTGCACCTACTTCGCTTTCGCCATGAC
CTTCTTACGCTGGCCACGATGCTCATGCTCTTCGCCATGGCCCTGGAGCGCTACCTCTCGATCGGGCAC
CCCTACTTCTACCAGCGCCGCTCTCGCGCTCCGGGGCCCTGGCCGTGCTGCCTGTCTATGCACTCT
CCCTGCTCTTCTGCTCGCTGCCGCTGCTGGACTATGGGCACTACGTCACGTAAGTCCCGGGGACCTGGT
CTTCATCCGGCACGGGCGGACCGCTTACCTGCAGCTGTACGCCACCTGCTGCTGCTTCTCATTGTCTCG
GTGCTCGCTGCAACTTCAGTGTATTCTCAACCTCATCCGATGCACCGCCGAAGCCGGAGAAGCCGCT
GCGGACCTTCCCTGGGCACTGGCCGGGGCGCCCGGGGGCCGAGGAGAGGGGAAAGGGTGTCCATGGC
GGAGGAGACGGACCACCTCATTCTCTGGCTATCATGACCATCACCTTCGCGCTGCTCCTTGCCTTTC
ACGATTTTGCATATGAAATGAAACCTTCCCGAAAGGAAAAATGGGACCTCCAAGCTTAGGTTTT
TATCAATTAATCAATAATTGACCTTGGGTCTTGGCCATCCTTAGGCCTCCTGTTCTGAGACTAATGCG
TTCAGTCTCTGTTGTGGATTTCAATTAAGAACAAGATGCAACACAACTTCTGTTCTACACAGTCA
GATGCCAGTAAACAGGCTGACCTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210883 representing NM_000956
 Red=Cloning site Green=Tags(s)

MGNASNDSQSEDCETRQWLPPGESPAISSVMFSAGVLGNLIALALLARRWRGDVGC SAGRSSL SLFHV L
 VTEL VFTDLLGTCLISPVV LASYARNQTLVALAPESRACTYFAFAMTFFSLATMLMLFAMALERYLSIGH
 P YFYQRRVSRSGGLAVLPVIYAVSLLFCSLPLLDY GQYVQYCPGTWCFIRHGRTAYLQLYATLLLLLI VS
 VLACNFSVILN LIRMHRRSRRSRCP SLGSGRGGPGARRRGERVSM AEETDHLILLA IMTITFAVCSLPF
 TIFAYMNETSSRKEKWDLQALRFLSINSIIDPWVFAILRPPVLRMLRSVLC CRISLRTQDATQTSCTSQS
 DASKQADL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000956

ORF Size: 1074 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_000956.4](#)

RefSeq Size: 2395 bp

RefSeq ORF: 1077 bp

Locus ID: 5732

UniProt ID: [P43116](#)

Cytogenetics: 14q22.1

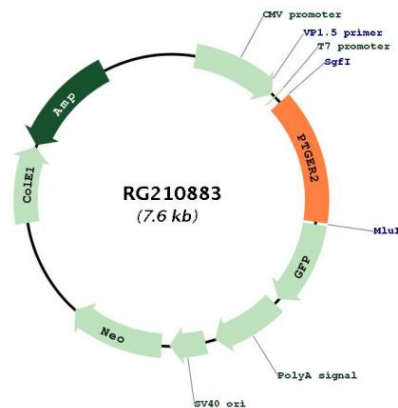
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a receptor for prostaglandin E2, a metabolite of arachidonic acid which has different biologic activities in a wide range of tissues. Mutations in this gene are associated with aspirin-induced susceptibility to asthma. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG210883