

Product datasheet for **SC119561**

EP4 (PTGER4) (NM_000958) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EP4 (PTGER4) (NM_000958) Human Untagged Clone
Tag:	Tag Free
Symbol:	EP4
Synonyms:	EP4; EP4R
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119561 sequence for NM_000958 edited (data generated by NextGen Sequencing)

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ATGTCCACTCCCAGGGTCAATTCGTCCGCCTCCTTGAGCCCCGACCGGTGAACAGCCCA
GTGACCATCCCAGCGGTGATGTTTCATCTTCGGGGTGGTGGGCAACCTGGTGGCCATCGTG
GTGCTGTGCAAGTCGCGCAAGGAGCAGAAGGAGACGACCTTCTACACGCTGGTATGTGGG
CTGGCTGTACCCGACCTGTTGGCACTTGTGGTGGAGCCCGGTGACCATCGCCACGTAC
ATGAAGGGCCAAATGGCCCGGGGCCAGCCGCTGTGCGAGTACAGCACCTTCATTCTGCTC
TTCTTCAGCCTGTCCGGCCTCAGCATCATCTGCGCCATGAGTGTGAGCGCTACCTGGCC
ATCAACCATGCCTATTTCTACAGCCACTACGTGGACAAGCGATTGGCGGGCCTCACGCTC
TTTGCACTATGCGTCCAACGTGCTCTTTTGCAGCTGCCAACATGGGTCTCGGTAGC
TCGCGGTGCACTACCCAGACACCTGGTCTTCATCGACTGGACCACCAACGTGACGGCG
CACGCCGCTACTCTACATGTACGCGGGCTTCAGCTCCTTCTCATTCTCGCCACCGTC
CTCTGCAACGTGCTTGTGTGCGGCGGCTGCTCCGCATGCACCGCAGTTCATGCGCCGC
ACCTCGTGGGACCCGAGCAGCACCGCGGCCGCGGCCCTCGGTTGCCTCCCGGGG
CACCCCGTGCCTCCCCAGCCTTCCCGCCTCAGCGACTTTCGCGCGCCCGGAGCTTC
CGCCGCATCGCGGGCCGAGATCCAGATGGTCATCTTACTATTGCCACCTCCCTGGTG
GTGCTCATCTGCTCCATCCCGCTCGTGGTGCAGTATTCTGCAACCAGTTATATCAGCCA
AGTTTGGAGCGAGAAGTCAGTAAAAATCCAGATTTGCAGGCCATCCGAATTGCTTCTGTG
AACCCATCCTAGACCCCTGGATATATCCTCCTGAGAAAGACAGTGTCTCAGTAAAGCA
ATAGAGAAGATCAAAATGCCTCTTCTGCCGATTGGCGGGTCCCGCAGGGAGCGCTCCGGA
CAGCACTGCTCAGACAGTCAAAGGACATCTTCTGCCATGTCAGGCCACTCTCGCTCCTC
ATCTCCCGGGAGCTGAAGGAGATCAGCAGTACATCTCAGACCCTCCTGCCAGACCTCTCA
CTGCCAGACCTCAGTAAAAATGGCCTTGGAGGCAGGAATTTGCTTCCAGGTGTGCCTGCG
ATGGCCCTGGCCAGGAAGACACCACCTCACTGAGGACTTTGCGAATATCAGAGACTCA
GACTCTTACAGGGTCAAGACTCAGAGAGTGTCTTACTGGTGGATGAGGCTGGTGGGAGC
GGCAGGGCTGGGCTGCCCTAAGGGGAGCTCCCTGCAAGTCACATTTCCAGTGAACA
CTGAACCTATCAGAAAAATGTATATA
    
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Clone variation with respect to NM_000958.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000958 unedited
CGCACGGGGGAGNCGCTACTTTTACNNGGNGGTTTCGGAATTGAAACGNATTATATAGGC
GGACGCCAATTCGCACCAGCCGGCAGCCCGTATAGGAAGATGAACAGCCCCAGGCCAGAG
CCTCTGGCAGAGTGGACCCCGAGCCGCCCCAGGTAGCCAGGAGCGGCCCTCAGCGGCAGC
CGCAAATCCAGTAGCCGCCCGTGTGCCCGTGGCTGGGGCGGAGGGCAGCCAGAGCTGG
GGACTTTTTGTTCCGCGCCACCTGCGCGCACAGCCTCACACCTGAACGCTGTCTCCCGC
AGACGAGACCCGGGCGGCACTGCAAAGCTGGGACTCGTCTTTGAAGGAAAAAATAGCGA
GTAAGAAATCCAGCACCAATTCTTCACTGACCCATCCCGCTGCACCTCTTGTTCCTCAAGT
TTTTGAAAGCTGGCAACTCTGACCTCGGTGTCCAAAAATCGACAGCCACTGAGACCGGCT
TTGAGAAGCCGAAGATTTGGCAGTTTCCAGACTGAGCAGGACAAGGTGAAAGCAGGTTGG
AGGCGGGTCCAGGACATCTGAGGGCTGACCCTGNGGGCTCGTGAGGCTGCCACCGCTGCT
GCCGCTACAGACCAGCCTTGCCTCAAGGCTGCGCACCGCCAGCCACTATCATGTCCA
CTCCCGGGGTCAATTCGTCCGCTCCTTGAGCCCGACCGGCTGAACAGCCCCATGACC
ATCCCGCGGGTGTGTTTCATCTTCCGGGGTGGTGGGCAACCTGGTGGGCATCGTGGNG
GCTGTGCCAAGTCGCGCAAGGAGCCAAAAGGAAACGACCTTTTTACACCCTTGGTATGTG
GGGCTGGGCTGTACCCGACCTGTTGGGCACTTGTGTTGTGGAGCCCGTGGACCATTC
CCACGTACATGTAGGGGCAATGCGCCCGGGGCCAACCCGTTGGGCAATCCACACACC
TTTATTCGGCTCTTCTAAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000958 unedited NNNTATTACTTGNC CGCGCCG CATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTCAGAT TGAATGTATATATTTATTATAATCTCCAAATAATTTCACTTGGTACAACACTGCTTCTTAAA ACCATATCAATATCAGGCTCAGAATTTAATTACAACCAAGCAATTCACAAAAACACTGAG CAACAAAACATGCTTAATATTTCTTTGAGAAAGACCCTTCAAATATGTGTACAGCATCAC TGGGAGTTACACAAAACCTGTTACAAGGTGACCATTAAGTGCCCAATTCTGCACCTTGA CATACATGAATGGCTAATGTAACCACGTTTGGGAATCTTTTACATCTCAAAAATAAGCT TTCTGATGCAACTTGCCATCCTTTTAAATTTTAAAGGATATTCTTGGTAATTCCTTAGGA AAGTAAAACACTACACACTTTTCAGAGAAACAATAAGCTGCTTAGATTTTTAAATTTTTT ATATTACACTTCAATTATGGGTTATTTATTAAGACTTCAAAAAATTTATGTTATGTT TTTAAAAGTACCAATTAGTGAGGGAAAAAGTTGAAAATATTCACCAGCATGTTAGGTTCT CCTGAAATCACAGTTTTCTGGATAAATAAATGTAATATCACTAAACAATTTTCACTATGT ATTTTATACATAGCCTGGAAAGAACAGTATTTTGGACTGTAATTTTACATCTAANATAG TATTTTTTCTTTATCCCTTTGATATACTAANNATCTTCTTTAAAAATTATATCTATTT TATAGATATCAATCTTACTATGAATNTTCAACTTTGACTCGAAGTTGNNTATGAAAATAT CTAACATCTGCACTTCAGCTGGTATACTGGAAGAAGAGGGTTGCGGATATTTATATACCN TGGATAACAATAACNNCTACAGAGAGAAATACTT
Restriction Sites:	NotI-NotI
ACCN:	NM_000958
Insert Size:	3500 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
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:	NM_000958.2 , NP_000949.1
RefSeq Size:	3432 bp

RefSeq ORF:	1467 bp
Locus ID:	5734
UniProt ID:	P35408
Cytogenetics:	5p13.1
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>The protein encoded by this gene is a member of the G-protein coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). This receptor can activate T-cell factor signaling. It has been shown to mediate PGE2 induced expression of early growth response 1 (EGR1), regulate the level and stability of cyclooxygenase-2 mRNA, and lead to the phosphorylation of glycogen synthase kinase-3. Knockout studies in mice suggest that this receptor may be involved in the neonatal adaptation of circulatory system, osteoporosis, as well as initiation of skin immune responses. [provided by RefSeq, Jul 2008]</p>