

Product datasheet for RC233324

Epigen (EPGN) (NM_001270989) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Epigen (EPGN) (NM_001270989) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: EPGN
Synonyms: ALGV3072; EPG; PRO9904
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC233324 representing NM_001270989
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTTGGGAGTTCCAATATCAGTCTATCTTTTATTCAACGCAATGACAGCACTGACCGAAGAGGCAG
 CCGTGACTGTAACACCTCCAATCACAGCCAGCAAGGTAAGTGGACAGTTAACAAAACAGAAGCTGACAA
 CATAGAAGGACCCATAGCCTTGAAGTTCTCACACCTTTGCTGGAAGATCATAACAGTTACTGCATCAAC
 GGTGCTTGTGCATTCCACCATGAGCTAGAGAAAGCCATCTGCAGGTGTTTACTGGTTATACTGGAGAAA
 GGTGTGAGCACTTGACTTAACTTCATATGCTGTGGATTCTTATGAAAAATACATTGCAATTGGGATTGG
 TGTGGATTACTATTAAGTGGTTTTCTTGTATTTTTTACTGCTATATAAGAAAGAGGTGTCTAAAAATTG
 AAATCGCCTTACAATGTCTGTTCTGGAGAAAGACGACCACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233324 representing NM_001270989
 Red=Cloning site Green=Tags(s)

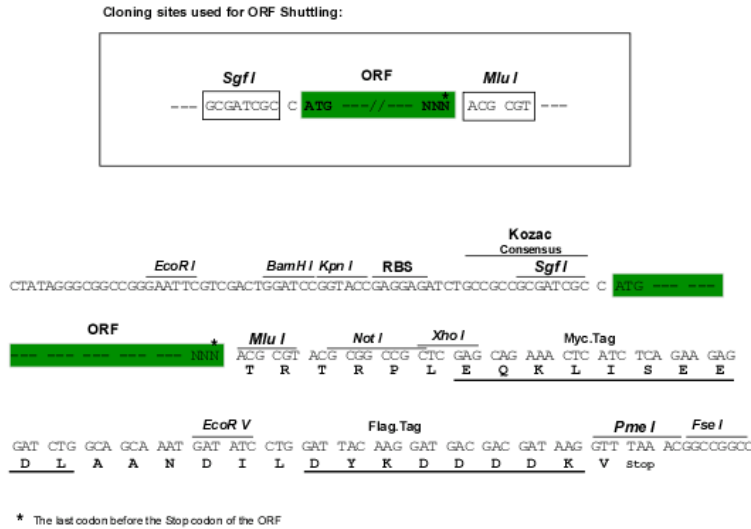
MALGVPIISVYLLFNAMTALTEEAAVTVTPPITAQQGNWTVNKTEADNIEGPALKFSHLCLEDHNSYCIN
 GACAFHHELEKAICRCFTGYTGERCEHLTLTSYAVDSYEKYIAIGIGVLLLLSGFLVIFYCYIRKRLKL
 KSPYINVCSGERRPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

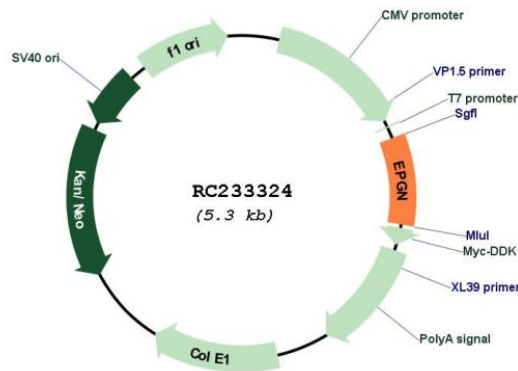
Restriction Sites: Sgfl-Mlul



Cloning Scheme:



Plasmid Map:



ACCN: NM_001270989

ORF Size: 462 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:	<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_001270989.2</u>
RefSeq Size:	2695 bp
RefSeq ORF:	465 bp
Locus ID:	255324
UniProt ID:	<u>Q6UW88</u>
Cytogenetics:	4q13.3
Protein Families:	Transmembrane
MW:	17.5 kDa
Gene Summary:	The protein encoded by this gene is a member of the epidermal growth factor family. Members of this family are ligands for the epidermal growth factor receptor and play a role in cell survival, proliferation and migration. This protein has been reported to have high mitogenic activity but low affinity for its receptor. Expression of this transcript and protein have been reported in cancer specimens of the breast, bladder, and prostate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]