

Product datasheet for RR212140

Ptges3 (NM_001130989) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptges3 (NM_001130989) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptges3
Synonyms: RGD1561913
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212140 representing NM_001130989
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAGCCTGCTTCTGCAAAGTGGTACGACCGAAGGGACTATGTATTCATTGAATTTGTGTTGAAGACA
 GTAAGATGTTAATGTAACCTTTGAAAAATCCAACTTACTTTTCAGTTGTCTGGAGGAAGTGATAATTT
 TAAGCATTTAAATGAAATTGATCTTTTTTCATTGTATTGATCCAAATGATCCAAGCATAAAGAACGGAC
 AGATCGATTTTATGTTGTTTGCAGAAAGGAGAATCCGGCCAATCCTGGCCTAGGTTAACAAAGGAAAGGG
 CAAAGCTTAATTGGCTTAGTGTGGACTTCAATAATTGAAAGATTGGGAGGATGACTCAGATGAAGACAT
 GTCTAATTTTGACCGTTTCTCTGAGATGATGGATCACATGGGTGGTGTAGGATGTAGATTTACAGAA
 GTAGACGGAGCAGATGATGATTCACAAGACAGTGTATGAAAAAATGCCAGATCTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212140 representing NM_001130989
 Red=Cloning site Green=Tags(s)

MQPASAKWYDRRDYVFI EFCVEDSKDVNVNFEKSKLTF SCLGSDNFKHLNEIDL FHCIDPNDSKHKRTD
 RSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWEDDSDEDM SNFDRFSEMMDHMGGDEDVDLPE
 VDGADDDSQSDDEKMPDLE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

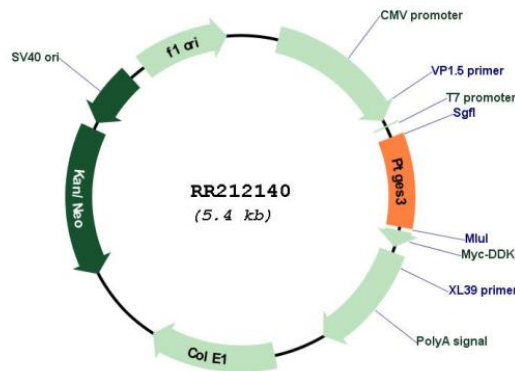


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001130989

ORF Size: 480 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_001130989.1, NP_001124461.1</u>
RefSeq Size:	1691 bp
RefSeq ORF:	483 bp
Locus ID:	362809
UniProt ID:	<u>P83868</u>
Cytogenetics:	7q11
MW:	18.7 kDa
Gene Summary:	Cytosolic prostaglandin synthase that catalyzes the oxidoreduction of prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2) (PubMed:10922363). Molecular chaperone that localizes to genomic response elements in a hormone-dependent manner and disrupts receptor-mediated transcriptional activation, by promoting disassembly of transcriptional regulatory complexes. Facilitates HIF alpha proteins hydroxylation via interaction with EGLN1/PHD2, leading to recruit EGLN1/PHD2 to the HSP90 pathway (By similarity).[UniProtKB/Swiss-Prot Function]