

HPGD cDNA

Catalog Number: ATGD0137

PRODUCT INFORMATION

Catalog number

ATGD0137

Product type

cDNA

Species

Human

NCBI Accession No.

NP_000851.2

Alternative Names

15-hydroxyprostaglandin dehydrogenase [NAD+], 15-PGDH, PGDH, PGDH1, SDR36C1, Prostaglandin dehydrogenase 1

mRNA Refseq

NM_000860

OMIM

601688

Chromosome location

4q34-q35

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

801bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

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General Description

HPGD encodes a member of the short-chain nonmetalloenzyme alcohol dehydrogenase protein family. The encoded enzyme is responsible for the metabolism of prostaglandins, which function in a variety of physiologic and cellular processes such as inflammation. Mutations in this gene result in primary autosomal recessive hypertrophic osteoarthropathy and craniosteoarthropathy. Multiple transcript variants encoding different isoforms have been found for this gene.

DATA

Sequence nucleotides

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ATGCACGTGAACGGCAAAGTGGCGCTGGTGACCGGCGCGGCTCAGGGCATAGGCAGAGCCTTTGCAGAGGCGCTGCTGC
TTAAGGGCGCCAAGGTAGCGCTGGTGGATTGGAATCTTGAAGCAGGTGTACAGTGTAAGCTGCCCTGGATGAGCAGTTTG
AACCTCAGAAGACTCTGTTTCATCCAGTGCGATGTGGCTGACCAGCAACAACCTGAGAGACACTTTTAGAAAAGTTGTAGACCA
CTTTGGAAGACTGGACATTTTGGTCAATAATGCTGGAGTGAATAATGAGAAAAACTGGGAAAAAACTCTGCAAAATTAATTTG
GTTTCTGTTATCAGTGGAACCTATCTTGGTTTGGATTACATGAGTAAGCAAATGGAGGTGAAGGCGGCATCATTATCAATA
TGTCATCTTTAGCAGGACTCATGCCCGTTGCACAGCAGCCGTTTATTGTGCTTCAAAGCATGGCATAGTTGGATTCACACG
CTCAGCAGCGTTGGCTGCTAATCTTATGAACAGTGGTGTGAGACTGAATGCCATTTGTCCAGGCTTTGTTAACACAGCCATC
CTTGAATCAATTGAAAAAGAAGAAAACATGGGACAATATATAGAATATAAGGATCATATCAAGGATATGATTAATACTATGG
AATTTTGGACCCACCATTGATTGCCAATGGATTGATAAACAATCATTGAAGATGATGCTTTAAATGGTGCTATTATGAAGATCA
CAACTTCTAAGGGAATTCATTTTCAAGACTATGATACAACTCCATTTCAAGCAAAAACCCAATGA
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Transaction Sequence

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MHVNGKVALV TGAAQIGRA FAEALLKGA KVALVDWNLE AGVQCKAALD EQFEPQKTLF IQCDVADQQQ LRDTFRKVVD
HFGRLDILVN NAGVNNEKNW EKTLQINLVS VISGYLGLD YMSKQNGGEG GIIINMSSLA GLMPVAQQPV YCASKHGIVG
FTRSAALAN LMNSGVRLNA ICPGFVNTAI LESIEKEENM GQYIEYKDHI KDMIKYYGIL DPPLIANGLI TLIEDDALNG
AIMKITTSGK IHFQDYDTTP FQAKTQ
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