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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 cranioosteoarthropathy. Multiple transcript variants encoding different isoforms have been found for this gene.

DATA

Sequence nucleotides

ATGCACGTGAACGGCAAAGTGGCGCTGGTGACCGGCGCGGCTCAGGGCATAGGCAGAGCCTTTGCAGAGGCGCTGCTGC
TTAAGGGCGCCAAGGTAGCGCTGGTGGATTGGAATCTTGAAGCAGGTGTACAGTGTAAAGCTGCCCTGGATGAGCAGTTTG
AACCTCAGAAGACTCTGTTCATCCAGTGCGATGTGGCTGACCAGCAACAACTGAGAGACACTTTTAGAAAAGTTGTAGACCA
CTTTGGAAGACTGGACATTTTGGTCAATAATGCTGGAGTGAATAATGAGAAAAACTGGGAAAAAACTCTGCAAATTAATTTG
GTTTCTGTTATCAGTGGAACCTATCTTGGTTTGGATTACATGAGTAAGCAAAATGGAGGTGAAGGCGGCATCATTATCAATA
TGTCATCTTTAGCAGGACTCATGCCCGTTGCACAGCAGCCGGTTTATTGTGCTTCAAAGCATGGCATAGTTGGATTCACACG
CTCAGCAGCGTTGGCTGCTAATCTTATGAACAGTGGTGTGAGACTGAATGCCATTTGTCCAGGCTTTGTTAACACAGCCATC
CTTGAATCAATTGAAAAAGAAGAAAACATGGGACAATATATAGAATATAAGGATCATATCAAGGATATGATTAAATACTATGG
AATTTTGGACCCACCATTGATTGCCAATGGATTGATAACACTCATTGAAGATGATGCTTTAAATGGTGCTATTATGAAGATCA
CAACTTCTAAGGGAATTCATTTTCAAGACTATGATACAACTCCATTTCAAGCAAAAACCCAATGA

Transaction Sequence

MHVNGKVALV TGAAQGIGRA FAEALLLKGA KVALVDWNLE AGVQCKAALD EQFEPQKTLF IQCDVADQQQ LRDTFRKVVD
HFGRLDILVN NAGVNNEKNW EKTLQINLVS VISGTYLGLD YMSKQNGGEG GIIINMSSLA GLMPVAQQPV YCASKHGIVG
FTRSAALAAN LMNSGVRLNA ICPGFVNTAI LESIEKEENM GQYIEYKDHI KDMIKYYGIL DPPLIANGLI TLIEDDALNG
AIMKITTSKG IHFQDYDTTP FQAKTQ