

Specifications:

Gene:	hP4HB
Accession:	NP_000909.2
Insert size:	1540bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

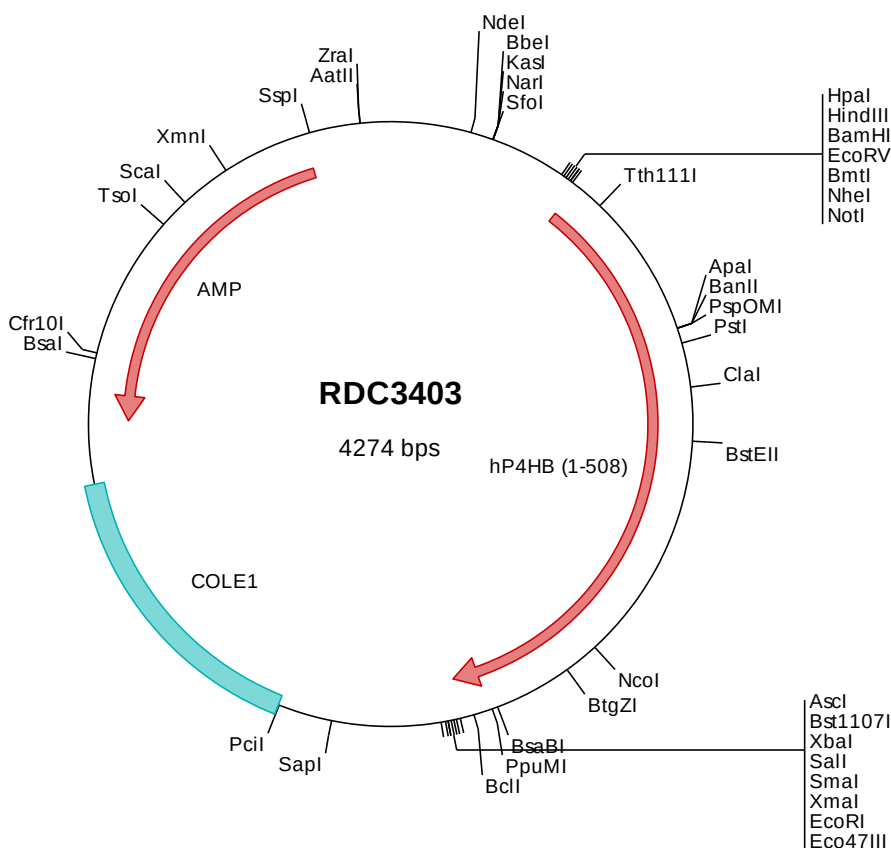
hP4HB cDNA Plasmid

**P4HB prolyl 4-hydroxylase
subunit beta [*Homo sapiens* (human)]**

Also known as: DSI; GIT; PDI;
PHDB; PDIA1; PO4DB; PO4HB;
PROHB; CLCRP1; ERBA2L; P4Hbeta

Summary:

P4HB is the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, P4HB is involved in hydroxylation of prolyl residues in procollagen. It is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds.



> RDC3403 Plasmid DNA Sequence

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201  ccgcacacgat gcgttaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagctt ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaaat
401  ggagacgtgt taacaagctt ggtccgata tcgctagcgc ggccgcacc atgtgcgc gcgctctgct gtgcctggcc gtggccgcc tggtgcgcgc
501  cgacgcccc gaggaggagg accacgtcct ggtgctgcgc aaaagcaact tcggcggagg gctggcgccc cacaagtacc tgtctggtga gttctatgcc
601  ccttgggtgtg gccactgcaa ggtcttgccc cctgagtatg ccaaagccgc tggaagctg aaggcagaag gttccgagat caggttggcc aaggtggacg
701  ccacggaggga gtctgacctg gcccagcagt acggcgtggc cggctatccc accatcaagt tcttcaggaa tgagagacacg gcttccccca aggaatatac
801  agctggcaga gaggctgatg acatcgtgaa ctggctgaag aagcgcacgg gcccggtgc caccaccctg cctgacggcg cagctgcaga gtccttggtg
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> RDC3403 Translated Insert Sequence

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201  dgvvlfkfkfd egrnnfegev tkenlldfik hnqlplvief teqtapkfif geikthillf lpksvsdydg klsnfktaae sfkgkilfif idsdhtdnqr
301  ileffglkke ecpavrlitl eeemtkykpe seeltaerit efchrflfegk ikphlmsqel pedwdkqpvk vlvgnkfedv afdekknfvf efyapwgcghc
401  kqlapiwdkl getykdheni viakmdstan eveavkvhsf ptlkffpasa drtvidyngc rtdlfgfkkfl esggqdgagd dddledleaa eepdmeeddd
501  qkavkdcl

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