

Specifications:

Gene:	hHLA-A
Accession:	NP_002107.3
Insert size:	1111bp
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.

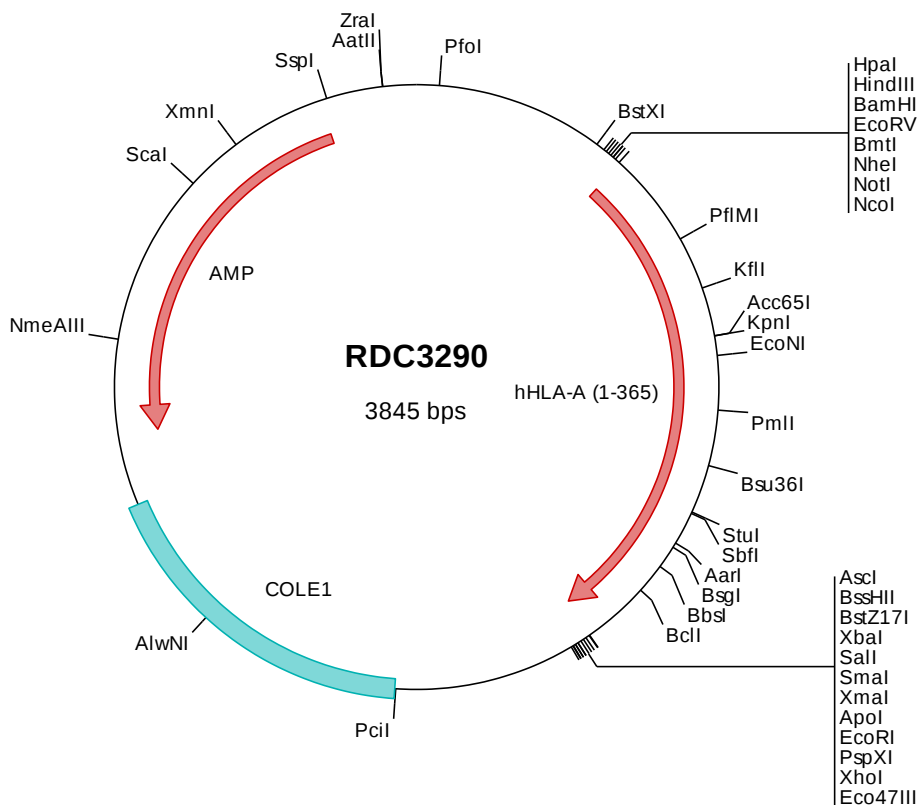
hHLA-A cDNA Plasmid

HLA-A major histocompatibility complex, class I, A [*Homo sapiens* (human)]

Also known as: HLAA

Summary:

HLA-A belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen so that they can be recognized by cytotoxic T cells. They are expressed in nearly all cells. The HLA system plays an important role in the occurrence and outcome of infectious diseases, including those caused by the malaria parasite, the human immunodeficiency virus (HIV), and the severe acute respiratory syndrome coronavirus (SARS-CoV).



> RDC3290 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggatgtgtcg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccaacc atggccgtca tggcgcccc aacctctctc ctgctactct cgggggcccc
501  ggccctgacc cagacctggg cgggctccca ctccatgagg tattttctca catccgtgtc cgggccccgc cgcggggagc cccgcttcat cgcctgggce
601  tacgtggacg acacgcagtt cgtgcgggtc gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg ccggagtatt
701  gggaccaggga gacacggaat gtgaaggccc agtcacagac tgaccgagtg gacctgggga ccctgcgcgc ctactacaac cagagcgagg ccggttctca
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901  aacgaggacc tgcgtctctg gaccgcggcg gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgaggc ggagcagttg agagcctacc
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1701 aagcctgggg tgccctaatga gtgagctaac tcacattaat tgcgttgcgc tcaactcccg ctttccagtc gggaaacctg tcgtgccagc tgcattaatg
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2501 gttaccttcg gaaaaagagt tggtagctct tgatccggca aacaaaccac cgtgtgtagc ggtgtgtttt tttgtttgcaa gcagcagatt acgcgcagaa
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3001 tgcaacttta tccgcctcca tccagtctat taattgttgc cgggaagcta gtagtaagtag ttcccgagtt aatagtttgc gcaacgttgt tgccattgct
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> RDC3290 Translated Insert Sequence

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101  dlgtlrgyyn qseagshtiq imygcdvgsd grflrgyrqd aydgkdyial nedlrswtaa dmaaqitkrk weaaheaeql rayldgtcve wlrrylengk
201  etlqtrtdppk thmthhpisd heatlrcwal gfypaeitlt wqrdegdqtq dtelvetrpa gdgtfqkwaa vvpvpsgeeqr ytchvqhegl pkpltlrwl
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