

Specifications:

Gene:	hADORA2B
Accession:	NP_000667
Insert size:	1012bp
Concentration:	10µg at 0.2µg/µL

hADORA2B cDNA Plasmid

ADORA2B adenosine A2b receptor [*Homo sapiens*]

Also known as: ADORA2

Summary:

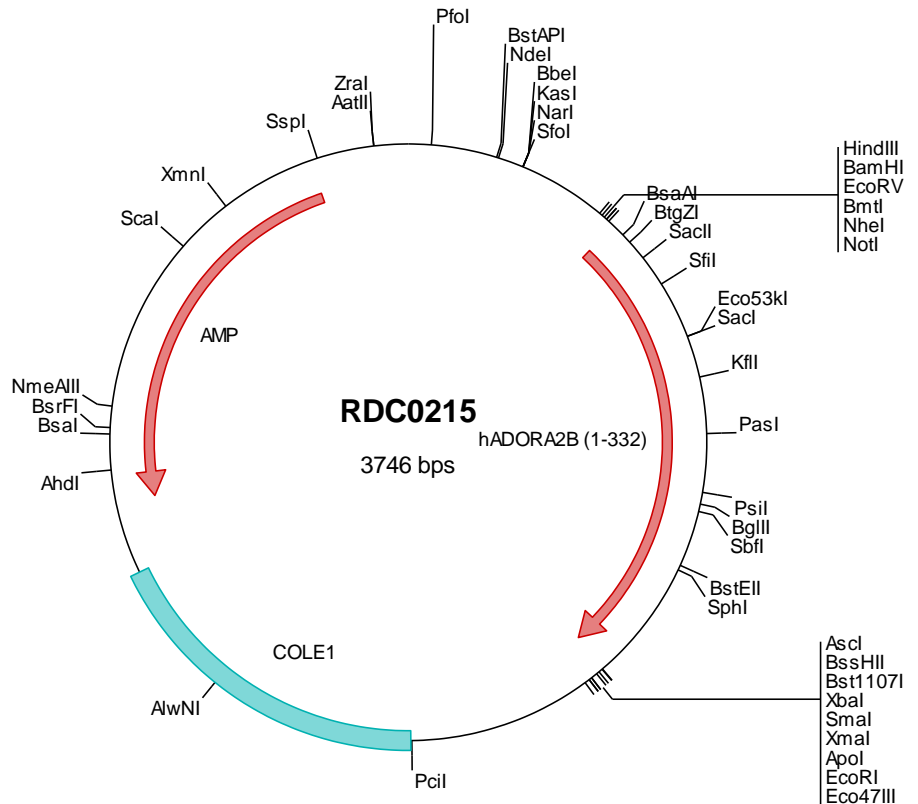
ADORA2B is an adenosine receptor that is a member of the G protein-coupled receptor superfamily. ADORA2B stimulates adenylate cyclase activity in the presence of adenosine. ADORA2B was dominant in MSCs, and its expression and activity were transiently upregulated at early stages of osteoblastic differentiation. ADORA2B also interacts with netrin-1, which is involved in axon elongation. It is of considerable interest as a new drug target for the treatment of asthma, inflammatory diseases, pain, and cancer. Both activation and overexpression of ADORA2B induced the expression of osteoblast-related genes [Runx2 and alkaline phosphatase (ALP)], as well as ALP activity, and stimulation increased osteoblast mineralization.

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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0215 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gacgctccc gagacggta cagcttgtct gtaagcggat gccgggagca gacaagccc
101 tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagg tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
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601 gggcgcgacg tggcogtggg gctcttggcc atcccctttg ccataccat cagcctgggc ttctgcactg acttctacgg ctgctcttc ctgctgctg
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2001 gactataaag ataccaggcg tttcccctg gaagctccct cgtgcgctct cctgttccga taccggatc ctgtccgct tctcctctc tctcctctc
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2401 agttaccctt ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctgtag cggtggtttt tttgtttgca agcagcagat tacgcgaga
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3301 aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaacg ttcttcgggg cgaaaactct caaggatctt accgctgttg
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3601 cggatacata tttgaatgta tttgaaaaa taacaaataa ggggttccgc gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc
3701 atgacattaa cctataaaaa taggcgtatc acgagccct tctctc

> RDC0215 Translated Insert Sequence

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101 vdrylaicvp lrykslvtgt rargviavlw vlafgigltf flgwnskds a tnnctepwdg ttnescclvk clfenvvpm ymvynffgc vlpllimlv
201 iyikiflvac rqlqrteimd hsrtrtlqrei haakslamiv gifalcwlpv havncvltfqq pagqknkpkv amnmaillsh ansvnpvivy ayrrndfryt
301 fhkiisryll cqadvksng qagvqpalgv gl