



Posi.: pGL3 Control Vector
(SV40 promoter)

Nega.: Empty Vector

AHR: pGL4-ph AHR (RDB# 7724)

ADRB2: pGL4-ph ADRB2 (RDB# 7532)

HSPB1: pGL4-ph HSPB1 (RDB# 7530)

[GENETYX : Nucleotide Sequence Homology Data]

Date : 2009.10.20

1st Nucleotide Sequence

File Name : Reference Seq. GNU
Sequence Size : 5717

2nd Nucleotide Sequence

File Name : RDB7532F.fasta
Sequence Size : 783

Unit Size to Compare = 1
Pick up Location = 1

[96.396% / 777 bp] INT/OPT. Score : < 350/ 2806 >

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1'          GGC CTAAGTGGCC GGTACCTGAG CTCGCTAGCC TCGAGGATCT
          *** *****
1'' GTGCAGAACA TTTCTCTGGC CTAAGTGGCC GGTACCTGAG CTCGCTAGCC TCGAGGATCT

44' GGAGCGCAGT GACGTGATCT CNGGCTCACT GCAACCTTCA CCTCCCGGT TCAAGAGATT
          ***** * *****
61'' GGAGCGCAGT GACGTGATCT C-GGCTCACT GCAACCTTCA CCTCCCGGT TCAAGAGATT

104' CTCCTGTCTC AGNCCTCCCG AGTAGCTGGG ACTACAGGTA CGTGCCACCA CACCTGGCTA
          ***** ** *****
120'' CTCCTGTCTC AG-CCTCCCG AGTAGCTGGG ACTACAGGTA CGTGCCACCA CACCTGGCTA

164' ATNNTTGTGA TTTTGTAGTAG AGACAAGAGT TACACCATAT TGGCCAGGAT CTTTNTGCTT
          *** *****
179'' ATT-TTGTGA TTTTGTAGTAG AGACAAGAGT TACACCATAT TGGCCAGGAT CTTT-TGCTT

224' TCTATAGCTT CAAAATGTTC TTAATGTAA GACATTCTTA ATACTNCTGA ACCATATGAA
          *****
237'' TCTATAGCTT CAAAATGTTC TTAATGTAA GACATTCTTA ATACT-CTGA ACCATATGAA
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284' TTTGCCATTT TGGTAAGTCA CAGACGCCAG ATGGTNGCA ATTTACATG GCACAACCCG

 296'' TTTGCCATTT TGGTAAGTCA CAGACGCCAG ATGGTG-GCA ATTTACATG GCACAACCCG

 344' AAAGATTAAC AAACATCCA GCAGATGNAAGGATTTTTT TTAGTTTCAT TGGGTTTACT

 355'' AAAGATTAAC AAACATCCA GCAGATG-AAAGGATTTTTT TTAGTTTCAT TGGGTTTACT

 404' GAAGAAATTG TTTGAATTNC TCATTGCATC TCCAGTTCAA CAGATAATGA GTGAGTGATG

 414'' GAAGAAATTG TTTGAATT-C TCATTGCATC TCCAGTTCAA CAGATAATGA GTGAGTGATG

 464' CCACACTCTN CAAGAGTTAA AAACAAAACA ACAAAAAAAT TAAAACAAA GCACACAAC

 473'' CCACACTCT- CAAGAGTTAA AAACAAAACA ACAAAAAAAT TAAAACAAA GCACACAAC

 524' NTTCTCTCTC TGTCCAAAA TACATACTTG CATACCCCG CTCCAGATAA ANATCCAAAG

 532'' -TTCTCTCTC TGTCCAAAA TACATACTTG CATACCCCG CTCCAGATAA A-ATCCAAAG

 584' GGTAAACTG TCTTCATGCC TGC-AAATTC CTAAGGAGGG CACNCTAAAG TACTTGACAG

 590'' GGTAAACTG TCTTCATGCC TGCAAAATTC CTAAGGAGGG CAC-CTAAAG TACTTGACAG

 643' CGAGTGTGCT GAGGAAATCA GCAGCTGTTG AAGTNCACCT CCTGTGCTCT TGCCAAATGT

 649'' CGAGTGTGCT GAGGAAATCA GCAGCTGTTG AAGT-CACCT CCTGTGCTCT TGCCAAATGT

 703' TTGAAAGGA ATACACTGGG TTACCNGGGT GTATGTTGGG AGGGGAGCAT TATCAGTGCT
 ** ***** * * * ***** ** * * ***** ** *****
 708'' AAGACAGGA CTACACTGCG CTTACCGGGT GTATGTCCGG ACGCGAGCAT TANCAGTGCT

 763' CGGGTGAGGC AAGTTCNGGA GTACCCAGAT GGAGACATCC GTGTCTGTGT CGCTCTGGAT

 768'' CGGGTGAGGC AAGTCG

1st Nucleotide Sequence

File Name : Reference Seq. GNU
Sequence Size : 5717

2nd Nucleotide Sequence

File Name : RDB7532R. fasta (Complementary)
Sequence Size : 754

Unit Size to Compare = 1
Pick up Location = 1

[97.523% / 767 bp] INT/OPT. Score : < 404/ 2827 >

781' GAGTACCCAG ATGGAGACAT CCGTGTCTGT GTCGCTCTGG ATGCCTCCAN AGCCAGCGTG
* . *** *****
1" CCA AGCAGGCGTG

841' TGTTTACTTT CTGTGTGTGT CACCATGTCT TTGTGCTTCT NGGGTGCTTC TGTGTTTGT
**** *****
14" TGTTAACTTT CTGTGTGTGT CACCATGTCT TTGTGCTTCT -GGGTGCTTC TGTGTTTGT

901' TCTGCCGCG TTTCTGTGTT GGACAGGGGT GNACTTTGTG CCGGATGGCT TCTGTGTGAG
**** ***** * *****
73" TCTGCCGCG TTTCTGTGTT GGACAGGGGT G-ACTTTGTG CCGGATGGCT TCTGTGTGAG

961' AGCGCGCGG AGTGTGCATG TCNGGTGAGC TGGGAGGGTG TGTCTCAGTG TCTATGGCTG
***** ** *****
132" AGCGCGCGG AGTGTGCATG TC-GGTGAGC TGGGAGGGTG TGTCTCAGTG TCTATGGCTG

1021' TGGTTCGGTA TAANGTCTGA GCATGTCTGC CAGGGTGTAT TTGTGCCTGT ATGTGCGTGC
***** *** *****
191" TGGTTCGGTA TAA-GTCTGA GCATGTCTGC CAGGGTGTAT TTGTGCCTGT ATGTGCGTGC

1081' CTCGNGTGGG CACTCTCGTT TCCTCCGAA TGTGGGGCAG TGCCGGTGTG CTGCCNCTCT
**** *****
250" CTCG-GTGGG CACTCTCGTT TCCTCCGAA TGTGGGGCAG TGCCGGTGTG CTGCC-CTCT



1141' GCCTTGAGAC CTCAAGCCGC GCAGGCGCCC AGGGCAGGCA GGTAGCNGGC CACAGAAGAG

 308" GCCTTGAGAC CTCAAGCCGC GCAGGCGCCC AGGGCAGGCA GGTAGC-GGC CACAGAAGAG

 1201' CAAAAGCTC CCGGGTTGGC TGGTAAGGAC ACCACCTNCC AGCTTTAGCC CTCTGGGGCC

 367" CAAAAGCTC CCGGGTTGGC TGGTAAGGAC ACCACCT-CC AGCTTTAGCC CTCTGGGGCC

 1261' AGCCAGGGTA GCCGGGAAGC AGTGGTGGNC CCGCCCTCCA GGGAGCAGTT GGGCCCGCC

 426" AGCCAGGGTA GCCGGGAAGC AGTGGTGG-C CCGCCCTCCA GGGAGCAGTT GGGCCCGCC

 1321' CGGGCCAGCC CCAGGAGAAN GGAGGGCGAG GGGAGGGGAG GGAAAGGGGA GGAGTGCCTC

 485" CGGGCCAGCC CCAGGAGAA- GGAGGGCGAG GGGAGGGGAG GGAAAGGGGA GGAGTGCCTC

 1381' GCCCCTTCGC NGGCTGCCGG CGTGCCATTG GCCGAAAGTT CCCGTACGTC ACGGCGAGGG

 544" GCCCCTTCGC -GGCTGCCGG CGTGCCATTG GCCGAAAGTT CCCGTACGTC ACGGCGAGGG

 1441' CNAGTTCCCC TAAAGTCTG TGCACATAAC GGGCAGAACG CACTGCGAAG CGNGCTTCTT
 * *****
 603" C-AGTTCCCC TAAAGTCTG TGCACATAAC GGGCAGAACG CACTGCGAAG CG-GCTTCTT

 1501' CAGAGCACGG GCTGGAATCA AGATCTGGCC TCGGCGGCCA AGCTTGCAA TCCGTTACTG

 661" CAGAGCACGG GCTGGAATCA AGATCTGGCC TCGGCGGCCA AGCTTGCAA TCCGTTACTG

 1561' TTGTTAAAGC CACCATGGAA GATGCCAAA ACATTAAGAA GGGCCAGCG CCATTCTACC

 721" TTGTTAAAGC CACCATGGAA GATGCCAAA ACAT