



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 : 2009.11.19

1st Nucleotide Sequence

File Name : Reference Seq.gnu  
Sequence Size : 5730

2nd Nucleotide Sequence

File Name : RDB7724F.fasta  
Sequence Size : 607

Unit Size to Compare = 1  
Pick up Location = 1

[97.819% / 596 bp] INT/OPT. Score : < 321/ 2209 >

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1'          GGCCTAACTG GCCGGTACCT GAGCTCGCTA GCCTCGAGGA
          ***** ***** ***** *****
1'' AGGTGCCAGA ACATTCTCT GGCCTAACTG GCCGGTACCT GAGCTCGCTA GCCTCGAGGA

41' TGGGTGGATG TCCATCTACT TCCTTGTTGT CACTTCCCAG NATCACTTTC ACTTTATGCT
          ***** ***** ***** ***** ***** *****
61'' TGGGTGGATG TCCATCTACT TCCTTGTTGT CACTTCCCAG -ATCACTTTC ACTTTATGCT

101' CTTCTAAAAT TAAACAAAG ATCATCGACC ANCAAAACAC AATTGTTCTT TTGTAGCTCA
          ***** ***** ***** * ***** ***** *****
120'' CTTCTAAAAT TAAACAAAG ATCATCGACC A-CAAAACAC AATTGTTCTT TTGTAGCTCA

161' TGCTAGAATA CCCTCTTTGT TANCATCTCC TTCATTTTTC TGATCCAAAA TTAGTAGCC
          ***** ***** ** ***** ***** ***** *****
179'' TGCTAGAATA CCCTCTTTGT TA-CATCTCC TTCATTTTTC TGATCCAAAA TTAGTAGCC

221' TACTATATCT CACNCCACTG TCCTTCTTTC CTCCAGCTAT GGTAGAGAAC TGCTCCTCCA
          ***** *** ***** ***** ***** ***** *****
238'' TACTATATCT CAC-CCACTG TCCTTCTTTC CTCCAGCTAT GGTAGAGAAC TGCTCCTCCA
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281' ACTTNTATGT ACATTTGAAT CACCTGGGAG TTCCTGTGAA CTTCGGGTTC TGATTNTAAT
      **** **
297" ACTT-TATGT ACATTTGAAT CACCTGGGAG TTCCTGTGAA CTTCGGGTTC TGATT-TAAT

341' AAGGACACCC AAAGAGTCTG CATTTCCTGT AACTCTCAA AAGAGCNTGT GGAGTACTCT
      **** **
355" AAGGACACCC AAAGAGTCTG CATTTCCTGT AACTCTCAA AAGAGC-TGT GGAGTACTCT

401' GAATAGCAAA GCACTGTAAG TGCTGTTTCT GTTAGTANTC TAATCTATTA GTCCTAATCT
      **** **
414" GAATAGCAAA GCACTGTAAG TGCTGTTTCT GTTAGTA-TC TAATCTATTA GTCCTAATCT

461' CCCATTTATG CTTTGGCACT CATTCCCTNC CTGCTTTCCG TATCTTAATA TCTATCATTC
      **** *
473" CCCATTTATG CTTTGGCACT CATTCCCT-C CTGCTTTCCG TATCTTAATA TCTATCATTC

521' CTTCACTCTT CCCTCAGGTN TCCCTACATA GTTTATCTCT ACCCCCTCTA AGCCGCTCAG
      **** **
532" CTTCACTCTT CCCTCAGGT- TCCCTACATA GTTTATCTCT ACCCCCTCTA AGCCGCTCAG

581' TATCGCCCAT NTAAGA AACT AAACCAAAC TAGAAAACCC TCATTTAACC CTTCACTCCC
      **** . ** *
591" TATCGCCCAT TAAAGG

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1st Nucleotide Sequence

File Name : Reference Seq. gnu  
Sequence Size : 5730

2nd Nucleotide Sequence

File Name : RDB7724R. fasta (Complementary)  
Sequence Size : 733

Unit Size to Compare = 1  
Pick up Location = 1



[95.984% / 747 bp] INT/OPT. Score : < 616/ 2640 >

841' TTCTCNAACT AATTGAATT TCTCAACAGT ATTCAATATT GTTAATTACT CCCAATNATT  
\*\*\*. \* \*\*\* \*. \*\*\*\* . \*\*\*\* \*\*

1" TCATANT GTT-ANTACT -NCAAT-ATT

901' TTTCCACATG GTCCTCCATG ACACAATACA TAATAGTCCC CTTATTANTC TATATTCTCG  
\*\*\* \*\*\*\*\* \*\* . \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\* \*\*\*\*\*

25" TTT-CACATG GTCNTCCATG ACACAATACA TAATAGTCCC CTTATTA-TC TATATTCTCG

961' TCTATTGTAA AGACTTCCCC CGCACACCAA AAAAGGTCNA AGGAAACTCC TAGCCTTCAA  
\*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \* \*\*\*\*\* \*\*\*\*\*

83" TCTATTGTAA AGACTTCCCC CGCACACCAA AAAAGGTC-A AGGAAACTCC TAGCCTTCAA

1021' GTCTCAACTC AAATCTGGCC TTCTGAAGCN CTTCCCAACT AGGAAAATAT ACAGTCCCAT  
\*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*

142" GTCTCAACTC AAATCTGGCC TTCTGAAGC- CTTCCCAACT AGGAAAATAT ACAGTCCCAT

1081' TGGTTGTCTA CCAGTTGTCT NACCAGTTAA TTGTAATTCT TAGCCACAAG TTAGCTGACC  
\*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*

201" TGGTTGTCTA CCAGTTGTCT -ACCAGTTAA TTGTAATTCT TAGCCACAAG TTAGCTGACC

1141' CACCGTCTCT CNAACAGGT GAAGTTAAGC TCAATATTTG GCATATCTTG ATATACTTTG  
\*\*\*\*\* \* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*

260" CACCGTCTCT C-AAACAGGT GAAGTTAAGC TCAATATTTG GCATATCTTG ATATACTTTG

1201' TANCAGTCTA GCTACAATAA GTTTGCCTAT GCACGAAGAT GGCTACCGGC GGGNGGGGGG  
\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\* \*\*\*\*\*

319" TA-CAGTCTA GCTACAATAA GTTTGCCTAT GCACGAAGAT GGCTACCGGC GGG---GGGG

1261' CGTCCTTACG TCCTACGTCA TCACGTGCCG GGATGAGGGT GGGGNCCTC AAGGAAGACG  
\*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*

376" CGTCCTTACG TCCTACGTCA TCACGTGCCG GGATGAGGGT GGGG-CCCTC AAGGAAGACG

1321' GAATGGAATC CAGATGGGCG GGGGCAAGCA GGACGNGGGC GGGGCTACGC GGGATCT---  
\*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*

435" GAATGGAATC CAGATGGGCG GGGGCAAGCA GGACG-GGGC GGGGCTACGC GGGATCTGGG



1378' -----GGG CGGGGCGGGG CCGGTGAGGG GTCGGGNGGT GCTCCTGCTA TTCAGCCGGT  
           \*\*\* \*\*\*\*\*  
 494" CGGGGCGGGG CGGGGCGGGG CCGGTGAGGG GTCGGG-GGT GCTCCTGCTA TTCAGCCGGT  
  
 1431' GCGGCGGGCG GCGGGAGGCA GTGGCTGNGG GAGTCCCGTC GACGCTCTGT TCCGAGAGCG  
           \*\*\*\*\*  
 553" GCGGCGGGCG GCGGGAGGCA GTGGCTG-GG GAGTCCCGTC GACGCTCTGT TCCGAGAGCG  
  
 1491' TGCCCCGGAC CGCCAGCTCA GAACAGGGGC AGCCGTGTAA TCAAGATCTG GCCTCGGCGG  
           \*\*\*\*\*  
 612" TGCCCCGGAC CGCCAGCTCA GAACAGGGGC AGCCGTGTAA TCAAGATCTG GCCTCGGCGG  
  
 1551' CCAAGCTTGG CAATCCGGTA CTGTTGGTAA AGCCACCATG GAAGATGCCA AAAACATTAA  
           \*\*\*\*\*  
 672" CCAAGCTTGG CAATCCGGTA CTGTTGGTAA AGCCACCATG GAAGATGCCA AAAACATTAA  
  
 1611' GAAGGGCCCA GCGCCATTCT ACCCACTCGA AGACGGGACC GCCGGCGAGC AGCTGCACAA  
           \*\*  
 732" GA