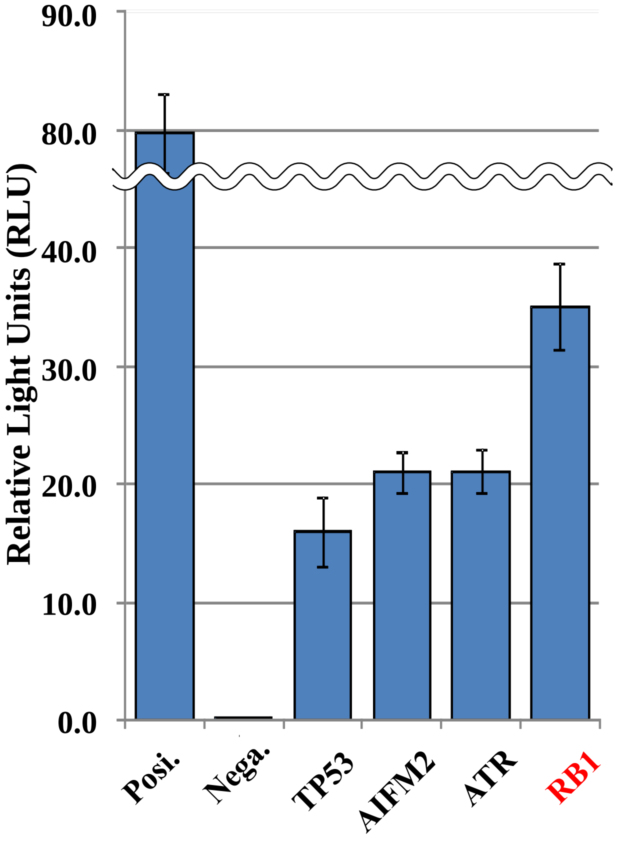
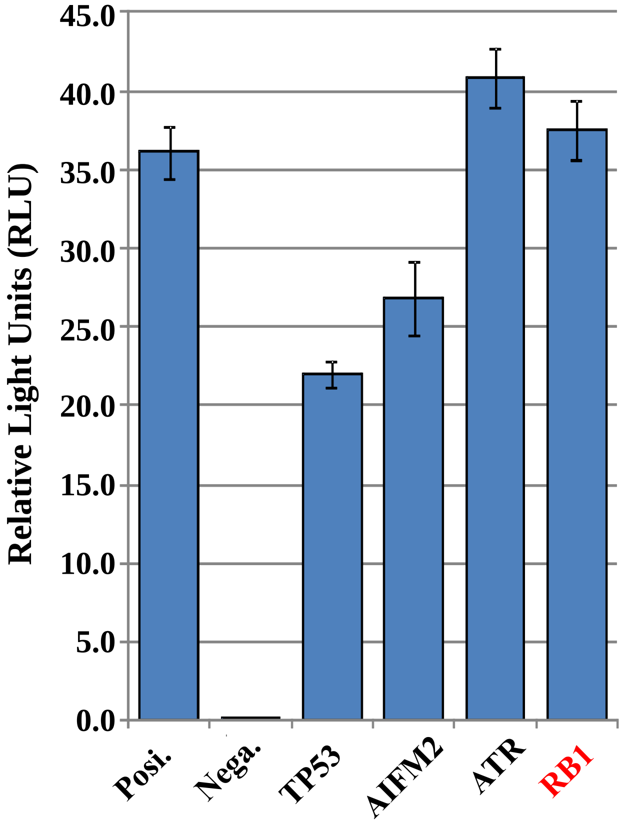
The Promoter Activities of Reporter Constructs

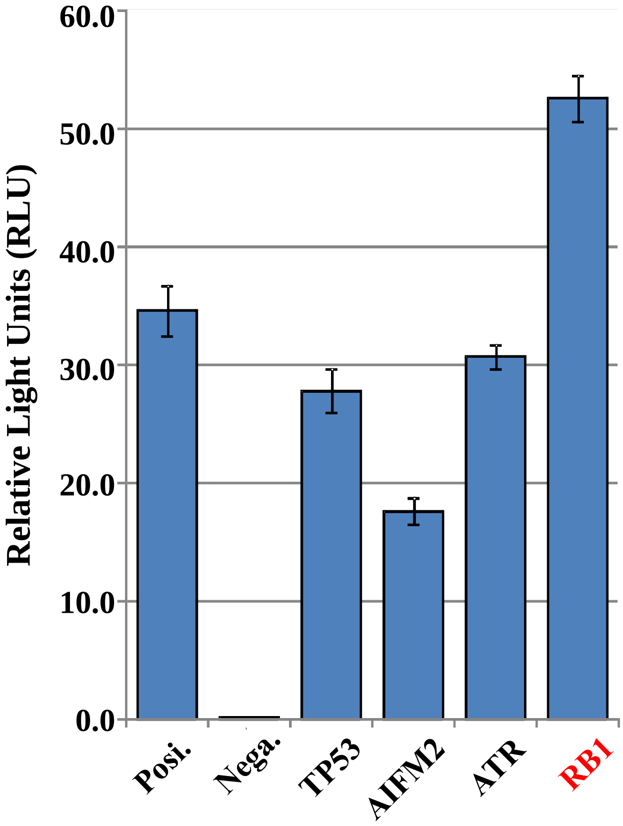
HeLa cells



HepG2 cells



Hep3B cells



Posi.: pGL3 Control Vector
(SV40 promoter)
Nega.: Empty Vector

TP53: pGL4-phTP53 (RDB# 7330)
AIFM2: pGL4-phAIFM2 (RDB# 7332)
ATR: pGL4-phATR (RDB# 7334)
RB1: pGL4-phRB1 (RDB#7345)

2010, DNA Bank, RIKEN BioResource Center

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[ GENETYX : Nucleotide Sequence Homology Data ]

Date : 2010.03.02

1st Nucleotide Sequence
  File Name        : Reference Seq.gnu
  Sequence Size    : 5575

2nd Nucleotide Sequence
  File Name        : RDB7345F.fasta
  Sequence Size    : 692

  Unit Size to Compare = 1
  Pick up Location     = 1



[96.031% / 655 bp]     INT/OPT.Score : <   1576/  2412 >

    1'                                        GGCC TAAC-TGGCC GGTACCTGAG
                                              **** **** ***** **********
    1″ GCAGAATGCT AGTGCAGGTG CGCAGAACAT TACTCTGGCC TAACTTGGCC GGTACCTGAG

   24' CTCGCTAGCC TCGAGGATGA CGAGTTCAGA TGGGCAATAA CAGTGTCTGC CAAAGAGAAA
       ********** ********** ********** ********** ********** **********
   61″ CTCGCTAGCC TCGAGGATGA CGAGTTCAGA TGGGCAATAA CAGTGTCTGC CAAAGAGAAA

   84' AAAAAATGTA TTCAAACTAG ATAATCTATT GGTACAAATA CCGAGACACA GAAGTGATAA
       ********** ********** ********** ********** ********** **********
  121″ AAAAAATGTA TTCAAACTAG ATAATCTATT GGTACAAATA CCGAGACACA GAAGTGATAA

  144' CAGCTTTAAG CCAATGTTTG ATGGTGGTAG TCCCAGCAAG CTCTTTTCTG ATGTCTTTGT
       ********** ********** ********** ********** ********** **********
  181″ CAGCTTTAAG CCAATGTTTG ATGGTGGTAG TCCCAGCAAG CTCTTTTCTG ATGTCTTTGT

  204' GCCTTTGCAC ATGCTCCTTC TCTGTCACTG TTTTCTTCAT CAAACATAAT ATAATGGACA
       ********** ********** ********** ********** ********** **********
  241″ GCCTTTGCAC ATGCTCCTTC TCTGTCACTG TTTTCTTCAT CAAACATAAT ATAATGGACA
```

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264' AGTGGAATCA AATAGAATTG AGTTCAAATT CTCTGCTACC CATCGGCCCT GGTATTGGAC
     ********** ********** ********** ********** ********** **********
301″ AGTGGAATCA AATAGAATTG AGTTCAAATT CTCTGCTACC CATCGGCCCT GGTATTGGAC

324' AAATTAACTC CTCTGAGCCT GTTTCCTCAT CTGCAACGTA GACTAGCTAA TACTACCCAT
     ********** ********** ********** ********** ********** **********
361″ AAATTAACTC CTCTGAGCCT GTTTCCTCAT CTGCAACGTA GACTAGCTAA TACTACCCAT

384' TGGAAAGCGT TGTTTCTT-A GCTAATGCAT GCAAGGCTTA AAACCTAGAT GACGGGTTGA
     ********** ******** * ********** ********** ********** **********
421″ TGGAAAGCGT TGTTTCTTAA GCTAATGCAT GCAAGGCTTA AAACCTAGAT GACGGGTTGA

443' TAGGTGCAGC AAACCTCCAT GGCATACGTA TGCCTATGTA ACAAACCTAC ACGTTCTGCA
     ********** ********** ********** ********** ********** **********
481″ TAGGTGCAGC AAACCTCCAT GGCATACGTA TGCCTATGTA ACAAACCTAC ACGTTCTGCA

503' CTTGTATCCC GGAACTTAAA GTAAAAAAAA AAAAAAAAAA AGAAAAGAAA GAAAGAAAAA
     ********** ********** **     *** ********** *    * .*. *** ******
541″ CTTGTATCCC GGAACTTAAA GT-----AAA AAAAAAAAAA ACCCGATNAN GAAGGAAAAA

563' GAAAAAAAAG GCTGTTTCTG GGGATTAAAT AAGA-CAATT ATGTAAGGTG GCCAGCACAG
     *********  ********** ***** **** ** * ***** **********  *****  **
596″ GAAAAAAAA- GCTGTTTCTG GGGATAAAAT AAAACCAATT ATGTAAGGTG CCCAGCCAAG

622' TTCCTGGTAC ATAGTAAATG TCAGGCCTGC CTGACAGACT TCTATTCAGC AGCTACTGCT
     ****** ***   ******** ** ******* *
655″ TTCCTGTTAC TAAGTAAATG TCCGGCCTGC CCTGAACC
```

1st Nucleotide Sequence
  File Name   : Reference Seq.gnu
  Sequence Size   : 5575

2nd Nucleotide Sequence
  File Name   : RDB7345R.fasta (Complementary)
  Sequence Size   : 701

```
Unit Size to Compare = 1
Pick up Location     = 1



[96.429% / 700 bp]     INT/OPT.Score : <   2142/  2471 >

   721' CGTTCTTACA CCACTACAAT CCTTTATTAC ACTACTATCC GTTCATTCCC CACAGCTCCC
                                                                   **
     1″                                                           CCCT

   781' TCCC-TTCCT TTCCC-TAAC CAGTGATCCC -AAAAGGCC- AGCAAGTGTC TAACATTTTC
        **** ***** ***** **** **  ******  ********  **** ***** **********
     5″ TCCCTTTCCT TTCCCTTAAC CAAGGATCCC AAAAAGGCCA AGCAGGTGTC TAACATTTTC

   837' -TATC-TTCT AA-GTGACT- GGTAAAG--T TCCGCA-CCT ATCA-GC-GC TCCAAG-TTT
         **** **** ** ******  *******  *  ***** *** **** ** ** .***** ***
    65″ TTATCTTTCT AAGGTGACTG GGTAAAGTTT CCCGCACCCT ATCAGGCGGC NCCAAGTTTT

   887' G-TTTTTGTT TT-GGCCGAC TTTGC-AAAA CGGATT-GGG CGGGATGAGA GGTGGGGGGC
        * ******** ** ******* ***** **** ****** *** ********** **********
   125″ GTTTTTTGTT TTGGGCCGAC TTTGCAAAAA CGGATTGGGG CGGGATGAGA GGTGGGGGGC

   943' GCCGCCCAAG GAGGGAGAGT GGCGCTCCCG CCGAGGGTGC ACTAGCCAGA TATTCCCTGC
        ********** ********** ********** ********** ********** **********
   185″ GCCGCCCAAG GAGGGAGAGT GGCGCTCCCG CCGAGGGTGC ACTAGCCAGA TATTCCCTGC

  1003' GGGGCCCGAG AGTCTTCCCT ATCAGACCCC GGGATAGGGA TGAGGCCCAC AGTCACCCAC
        ********** ********** ********** ********** ********** **********
   245″ GGGGCCCGAG AGTCTTCCCT ATCAGACCCC GGGATAGGGA TGAGGCCCAC AGTCACCCAC

  1063' CAGACTCTTT GTATAGCCCC GTTAAGTGCA CCCCGGCCTG GAGGGGGTGG TTCTGGGTAG
        ********** ********** ********** ********** ********** **********
   305″ CAGACTCTTT GTATAGCCCC GTTAAGTGCA CCCCGGCCTG GAGGGGGTGG TTCTGGGTAG

  1123' AAGCACGTCC GGGCCGCGCC GGATGCCTCC TGGAAGGCGC CTGGACCCAC GCCAGGTTTC
        ********** ********** ********** ********** ********** **********
   365″ AAGCACGTCC GGGCCGCGCC GGATGCCTCC TGGAAGGCGC CTGGACCCAC GCCAGGTTTC
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1183’ CCAGTTTAAT TCCTCATGAC TTAGCGTCCC AGCCCGCGCA CCGACCAGCG CCCCAGTTCC
      ********** ********** ********** ********** ********** **********
 425″ CCAGTTTAAT TCCTCATGAC TTAGCGTCCC AGCCCGCGCA CCGACCAGCG CCCCAGTTCC

1243’ CCACAGACGC CGGCGGGCCC GGGAGCCTCG CGGACGTGAC GCCGCGGGCG GAAGTGACGT
      ********** ********** ********** ********** ********** **********
 485″ CCACAGACGC CGGCGGGCCC GGGAGCCTCG CGGACGTGAC GCCGCGGGCG GAAGTGACGT

1303’ TTTCCCGCGG TTGGACGCGG CGCTCAGTTG CCGGGCGGGG GAGGGCGCGT CCGGTTTTTC
      ********** ********** ********** ********** ********** **********
 545″ TTTCCCGCGG TTGGACGCGG CGCTCAGTTG CCGGGCGGGG GAGGGCGCGT CCGGTTTTTC

1363’ TCAGGGGACG TTATCAAGAT CTGGCCTCGG CGGCCAAGCT TGGCAATCCG GTACTGTTGG
      ********** ********** ********** ********** ********** **********
 605″ TCAGGGGACG TTATCAAGAT CTGGCCTCGG CGGCCAAGCT TGGCAATCCG GTACTGTTGG

1423’ TAAAGCCACC ATGGAAGATG CCAAAAACA- TTAAGAAGGG CCCAGCGCCA TTCTACCCAC
      ********** ********** *********  *******
 665″ TAAAGCCACC ATGGAAGATG CCAAAAACAC TTAAGAA
```