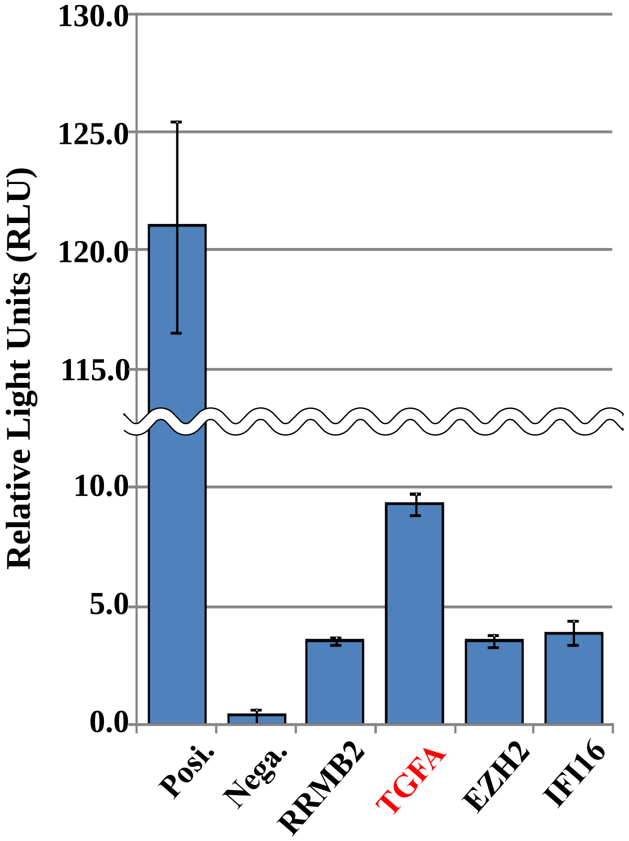
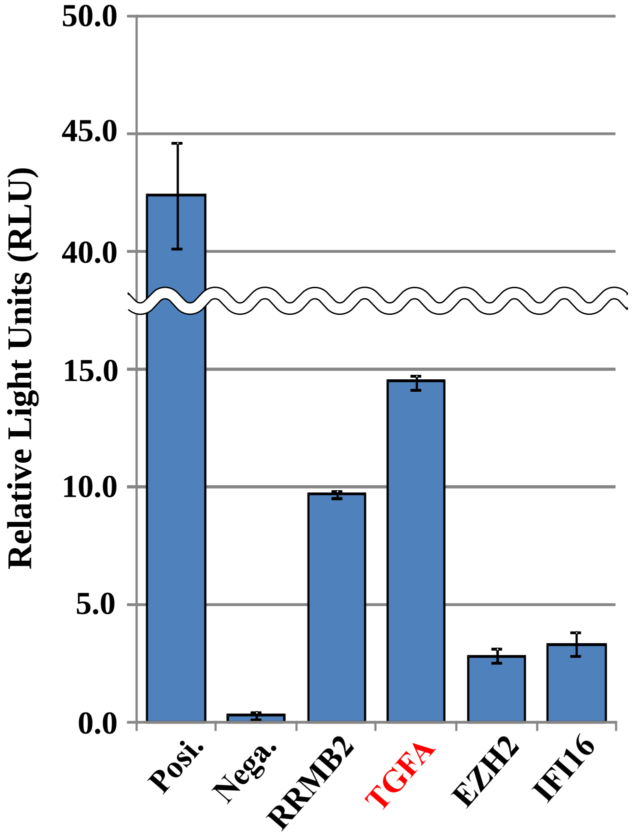
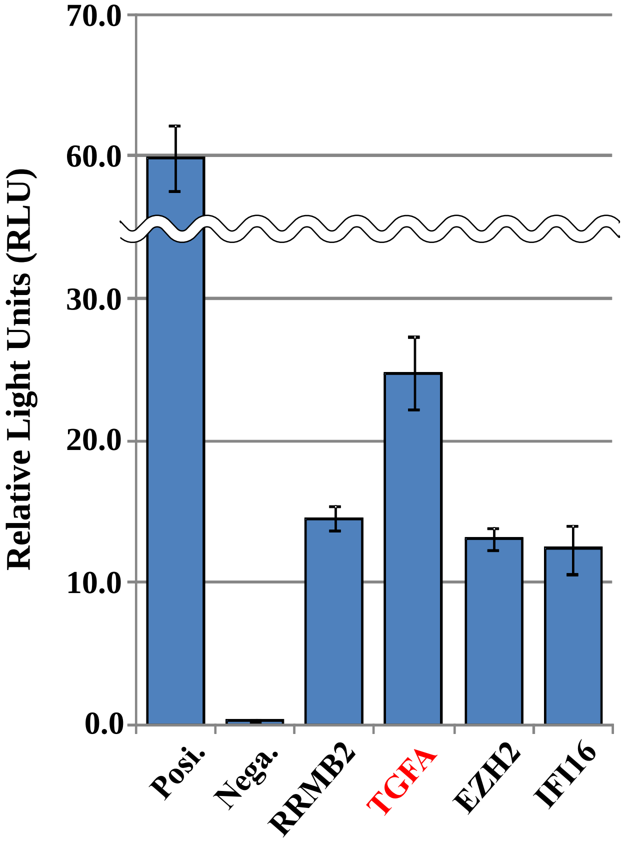
# The Promoter Activities of Reporter Constructs


HeLa cells


HepG2 cells


Hep3B cells

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

**RRMB2: pGL4-phRRMB2 (RDB# 7346)**
**TGFA: pGL4-phTGFA (RDB# 7348)**
**EZH2: pGL4-phEZH2 (RDB# 7370)**
**IFI16: pGL4-phIFI16 (RDB#7372)**

2009, DNA Bank, RIKEN BioResource Center

```
[ GENETYX : Nucleotide Sequence Homology Data ]

Date : 2010.03.02

1st Nucleotide Sequence
  File Name         : Reference Seq.gnu
  Sequence Size     : 5547

2nd Nucleotide Sequence
  File Name         : RDB7348F.fasta
  Sequence Size     : 658

  Unit Size to Compare = 1
  Pick up Location     = 1



[99.531% / 639 bp]     INT/OPT.Score : <   1456/  2518 >

      1'                     GG CCTAACTGGC CGGTACCTGA GCTCGCTAGC CTCG-AGGAT
                             ** ********** ********** ********** **** *****
      1" GTGCCAGAAC ATTTCTCTGG CCTAACTGGC CGGTACCTGA GCTCGCTAGC CTCGAAGGAT

     42' TGATTTACAC TGGTGCTTCC TGCCCAAATG TTGAGACCAA TGGCCTGGTG CTTCCTTCTT
         ********** ********** ********** ********** ********** **********
     61" TGATTTACAC TGGTGCTTCC TGCCCAAATG TTGAGACCAA TGGCCTGGTG CTTCCTTCTT

    102' GAAACTAGGT TGCTCTACTT ACATGAAACA AACTGGGCAG AGGTCAACCG TGAGAGCCTG
         ********** ********** ********** ********** ********** **********
    121" GAAACTAGGT TGCTCTACTT ACATGAAACA AACTGGGCAG AGGTCAACCG TGAGAGCCTG

    162' AGCCTCCCCA AGTAAACAGC AAAAGATTCC CCAGGCCCAA CAGCCCCCAC CCCCACCTTC
         ********** ********** ********** ********** ********** **********
    181" AGCCTCCCCA AGTAAACAGC AAAAGATTCC CCAGGCCCAA CAGCCCCCAC CCCCACCTTC

    222' AAGGAAAGTG GATCTACCCG GAGCACGTAG GCCAGAGGAG GCAGGAGAAG AGGGTCAGTC
         ********** ********** ********** ********** ********** **********
    241" AAGGAAAGTG GATCTACCCG GAGCACGTAG GCCAGAGGAG GCAGGAGAAG AGGGTCAGTC
```

```
    282’ CGTGAGCTCC GGGTACCTGG AGAACATGAA TCTCCCGGGT GTACTGTCCC CATGAGGGTC
         ********** ********** ********** ********** ********** **********
    301″ CGTGAGCTCC GGGTACCTGG AGAACATGAA TCTCCCGGGT GTACTGTCCC CATGAGGGTC

    342’ ACCGAGGAAC CTATGGATCT TCCACTCTTC GCCCAGAATG TCTTCCCTCT ATC-CCCTCC
         ********** ********** ********** ********** ********** *** ******
    361″ ACCGAGGAAC CTATGGATCT TCCACTCTTC GCCCAGAATG TCTTCCCTCT ATCTCCCTCC

    401’ ACCTCCCCAA ATTCCAGCAC CAGGGGCCAC CTCAGAGCCA CAAATCCTGA AAGGACCACC
         ********** ********** ********** ********** ********** **********
    421″ ACCTCCCCAA ATTCCAGCAC CAGGGGCCAC CTCAGAGCCA CAAATCCTGA AAGGACCACC

    461’ CAGGTGACTC GGGCCCACAC ACCCCTCTTT CGGGGTACAC TTGGTGGCAG GCTAGCAGGC
         ********** ********** ********** ********** ********** **********
    481″ CAGGTGACTC GGGCCCACAC ACCCCTCTTT CGGGGTACAC TTGGTGGCAG GCTAGCAGGC

    521’ TTTTGGCCTC AGCTGGTGGT GCCATATAAC CAGATTCGTC ACAGAGACCC ATTTTTTATC
         ********** ********** ********** ********** ********** **********
    541″ TTTTGGCCTC AGCTGGTGGT GCCATATAAC CAGATTCGTC ACAGAGACCC ATTTTTTATC

    581’ AGTCCCAGGC CAGAAGTACG AAGACTGATC TTAACGATGT GGCCTGCCTG GGAGGTAAGG
         ******* ** ********** ********** ********** ********** *******
    601″ AGTCCCAAGC CAGAAGTACG AAGACTGATC TTAACGATGT GGCCTGCCTG GGAGGTAG
```

```
1st Nucleotide Sequence
  File Name        : Reference Seq.gnu
  Sequence Size    : 5547

2nd Nucleotide Sequence
  File Name        : RDB7348R.fasta (Complementary)
  Sequence Size    : 695

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

```
[93.642% / 692 bp]     INT/OPT.Score : <   1118/  2403 >

  721’ ACCACTTTCC TTGAGCCAAG TCTTGGCAAG CGGCCGGCGA AACTCACAGG TCCCTTTCCT
                              *****          * *    ** *    *  *.*   *
    1″                         CCGGGCAAA AACTTCACCA AGGTCCCCTT TTTCNTGGGT

  781’ GGCTGCGTCC CCAGCC--TC CAGCC-TTCC CC--GCCCCA GAGATG-CCC CA-GGAGCGG
        *  *   ** *  ***   * ***** **** **   ***** ****** *** ** *******
   40″ TGGGGTCCCC CAGGCCTTCC CAGCCTTTCC CCGGCCCCCA GAGATGCCCC CAGGGAGCGG

  834’ CCCCTC-GGT GTAGGTAACG GGTGCCC-GG GCGGCTCCGC TCCGCCGCCT AGAGCC-TGG
       ****** *** ********** ******* ** ********** ********** ****** ***
  100″ CCCCTCGGGT GTAGGTAACG GGTGCCCGGG GCGGCTCCGC TCCGCCGCCT AGAGCCTTGG

  891’ AAGCCGCCAC -TGCGGCCCA GGACAATCCG GCTACGCGGC CGGCGCCGAC CCCGCACGCT
       **********  ********* ********** ********** ********** **********
  160″ AAGCCGCCAC TTGCGGCCCA GGACAATCCG GCTACGCGGC CGGCGCCGAC CCCGCACGCT

  950’ GGAGTCCGCT GCCGCACGGC GCTGGCAGTC GGGGGTGGTG TCTGAAGTCA GGCGCTTCCT
       ********** ********** ********** ********** ********** **********
  220″ GGAGTCCGCT GCCGCACGGC GCTGGCAGTC GGGGGTGGTG TCTGAAGTCA GGCGCTTCCT

 1010’ GCCTTTTCGT CGGCCCGGGT GCCCGGCTCG CGCCGCCAGG CTCTGGGATC CCAGGTCGCC
       ********** ********** ********** ********** ********** **********
  280″ GCCTTTTCGT CGGCCCGGGT GCCCGGCTCG CGCCGCCAGG CTCTGGGATC CCAGGTCGCC

 1070’ CCGCCCAGCA GCCCGCGCCC TGCTCGGTGC GCTCAGCGTC CCCGCCCCTT ACCCCAAACC
       ********** ********** ********** ********** ********** **********
  340″ CCGCCCAGCA GCCCGCGCCC TGCTCGGTGC GCTCAGCGTC CCCGCCCCTT ACCCCAAACC

 1130’ CCCACCCTCT GTGCCCTCAG GGGGGCACCC CCATCGGGGC GGGA-GGGGG GGGTCAGCTG
       ********** ********** **** ***** ********** **** ***** **********
  400″ CCCACCCTCT GTGCCCTCAG GGGGACACCC CCATCGGGGC GGGAGGGGGG GGGTCAGCTG

 1189’ TGCCCCGGTC GCCGAGTGGC GAGGAGGTGA CGGTAGCCGC CTTCCTATTT CCGCCCGGCG
       ********** ********** ********** ********** ********** **********
  460″ TGCCCCGGTC GCCGAGTGGC GAGGAGGTGA CGGTAGCCGC CTTCCTATTT CCGCCCGGCG
```

```
1249' GGCAGCGCTG CGGGGCGAGT GCCAGCAGAG AGGCGCTCGG TCCTCCCTCC GCCCTCCCGC
      ********** ********** ********** ********** ********** **********
 520″ GGCAGCGCTG CGGGGCGAGT GCCAGCAGAG AGGCGCTCGG TCCTCCCTCC GCCCTCCCGC

1309' GCCGGGGGCA GGCCCTGCCT AGTCTGCGTC TTTTTCCCAT CAAGATCTGG CCTCGGCGGC
      ********** ********** ********** ********** ********** **********
 580″ GCCGGGGGCA GGCCCTGCCT AGTCTGCGTC TTTTTCCCAT CAAGATCTGG CCTCGGCGGC

1369' CAAGCTTGGC AATCCGGTAC TGTTGGTAAA GCCACCATGG AAGATGCCAA AAACATTAAG
      ********** ********** ********** ********** ********** ******
 640″ CAAGCTTGGC AATCCGGTAC TGTTGGTAAA GCCACCATGG AAGATGCCAA AAACAT
```