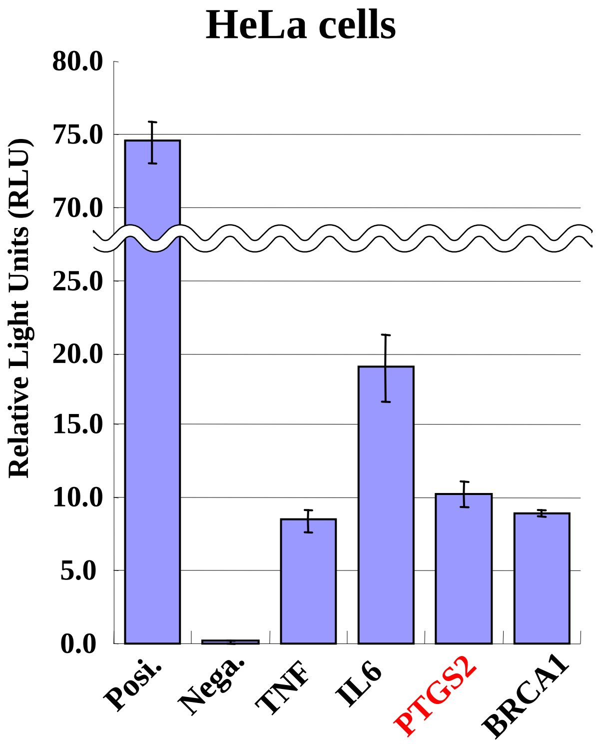
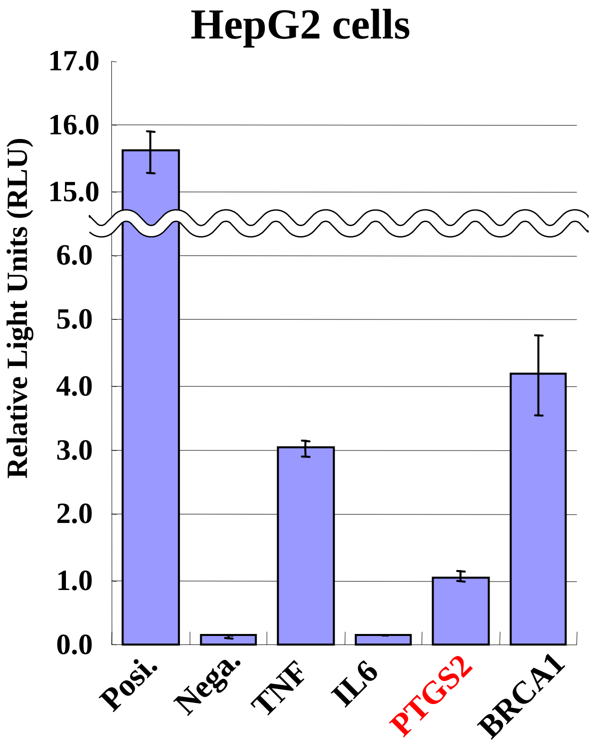
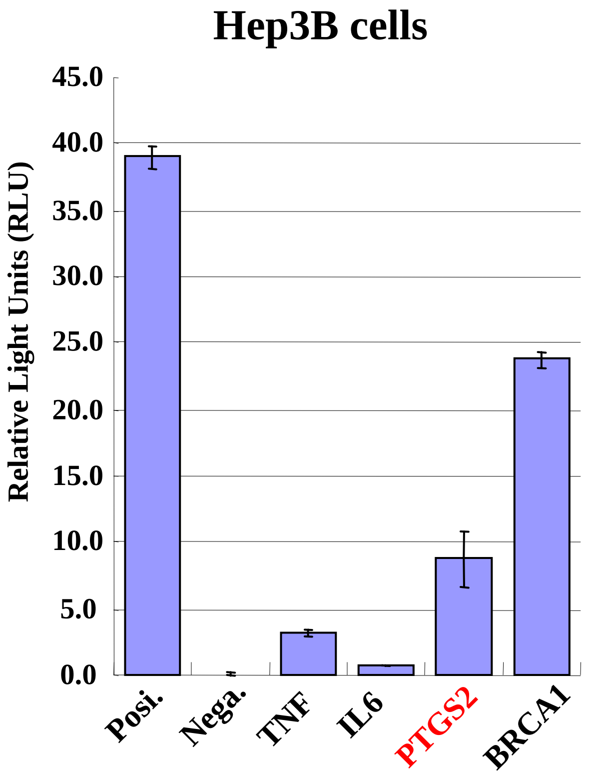
The Promoter Activities of Reporter Constructs







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

TNF: pGL4-phTNF (RDB#7310)
IL6: pGL4-phIL6(RDB#7313)
PTGS2:pGL4-phPTGS2 (RDB#7300)
BRCA1: pGL4-phBRCA1 (RDB#7296)

2009, DNA Bank, RIKEN BioResource Center

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[ GENETYX : Nucleotide Sequence Homology Data ]
Date : 2009.06.25

1st Nucleotide Sequence
  File Name          : Reference Seq.GNU
  Sequence Size      : 5519

2nd Nucleotide Sequence
  File Name          : RDB7300F.fasta
  Sequence Size      : 671

  Unit Size to Compare = 1
  Pick up Location     = 1

[97.583% / 662 bp]     INT/OPT.Score : <    343/  2415 >

     1’                     GG CCTAACTGGC CGGTACCTGA G-CTCGCTAG CCTCGAGGAT
                            ** ********** ********** * ******** **********
     1″ GTGCCAGAAC ATGTCTCTGG CCTAACTGGC CGGTACCTGA GACTCGCTAG CCTCGAGGAT

    42’ -AACTGTCAA AATCTCCCTT CCATCTAAT- TAATTCCTCA TCCAACTATG NTTCCAAAAC
         ********* ********** *********  ********** ********** . ********
    61″ GAACTGTCAA AATCTCCCTT CCATCTAATG TAATTCCTCA TCCAACTATG TGTCCAAAAC

   100’ GAGAATAGAA AATTAGCCCC AATAAGCCCA GGCAACTGAA ANAGTAAATG CTATGTTGTA
        ********** ********** ********** ********** * ******** **********
   121″ GAGAATAGAA AATTAGCCCC AATAAGCCCA GGCAACTGAA A-AGTAAATG CTATGTTGTA

   160’ CTTTGATCCA TGGTCACAAC TCATAATCTT GGNAAAAGTG GACAGAAAAG ACAAAAGAGT
        ********** ********** ********** ** ******* ********** **********
   180″ CTTTGATCCA TGGTCACAAC TCATAATCTT GG-AAAAGTG GACAGAAAAG ACAAAAGAGT

   220’ GAACTTTAAA ACTCGAATTT ATTNTTACCA GTATCTCCTA TGAAGGGCTA GTAACCAAAA
        ********** ********** *** ****** ********** ********** **********
   239″ GAACTTTAAA ACTCGAATTT ATT-TTACCA GTATCTCCTA TGAAGGGCTA GTAACCAAAA

   280’ TAATCCACGC ATCANGGGAG AGAAATGCCT TAAGGCATAC GTTTTGGACA TTTAGCGTCC
        ********** **** ***** ********** ********** ********** **********
   298″ TAATCCACGC ATCA-GGGAG AGAAATGCCT TAAGGCATAC GTTTTGGACA TTTAGCGTCC
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340' CTGCANAATT CTGGCCATCG CCGCTTCCTT TGTCCATCAG AAGGCAGGAA ACTTTANTAT
     ***** **** ********** ********** ********** ********** ****** ***
357″ CTGCA-AATT CTGGCCATCG CCGCTTCCTT TGTCCATCAG AAGGCAGGAA ACTTTA-TAT

400' TGGTGACCCG TGGAGCTCAC ATTAACTATT TACAGGGTAA CTGCTTANGG ACCAGTATTA
     ********** ********** ********** ********** ******* ** **********
415″ TGGTGACCCG TGGAGCTCAC ATTAACTATT TACAGGGTAA CTGCTTA-GG ACCAGTATTA

460' TGAGGAGAAT TTACCTTTCC CGCCTCTCTT TCCAAGAANA CAAGGAGGGG GTGAAGGTAC
     ********** ********** ********** ******** * ********** **********
474″ TGAGGAGAAT TTACCTTTCC CGCCTCTCTT TCCAAGAA-A CAAGGAGGGG GTGAAGGTAC

520' GGAGAACAGT ATTTCTTCTG TTGAAAGCAN ACTTAGCTAC AAAGATAAAT TACAGCTATG
     ********** ********** *********  ********** ********** **********
533″ GGAGAACAGT ATTTCTTCTG TTGAAAGCA- ACTTAGCTAC AAAGATAAAT TACAGCTATG

580' TACACTGAAG GTAGCTATTT NCATTCCACA AAATAAGAGT TTTTTAAAAA GCTATGTATG
     ********** **********  ********* ********** ********** **********
592″ TACACTGAAG GTAGCTATTT -CATTCCACA AAATAAGAGT TTTTTAAAAA GCTATGTATG

640' TATGTGCTGC ANTATAGAGC AGATATACAG CCTATTAAGC GTCGTCACTA AAACATAAAA
     ********** * ********
651″ TATGTGCTGC A-TATAGAGC CC




1st Nucleotide Sequence
  File Name         : Reference Seq.GNU
  Sequence Size     : 5519

2nd Nucleotide Sequence
  File Name         : RDB7300R.fasta (Complementary)
  Sequence Size     : 628

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

```
[94.505% / 637 bp]     INT/OPT.Score : <    430/  2191 >

  721' TTACTCGCCC CAGTCTGTCC CGACGTGACT TCNCTCGACC CTCTAAAGAC GTACAGACCA
                                                     **  *   * * ** *
    1″                                                    AAACC CCAGAAACAA

  781' -GACACGGCG GCGGCGGCGG GAGANGGGGA TT-CCCTGCG -CCCCCGGAC CTCAGGGCCG
        *    **** *  * *  ** **** ***** ** *******  ****** ** **********
   16″ CGGGCGGGCG GGCGGGCGGG GAGAGGGGGA TTCCCCTGCG CCCCCCGAAC CTCAGGGCCG

  838' CTCAGATTCC TGGAGAGNGA AGCCAAGTGT CCTTCTGCCC TCCCCCGGTA TCCCATCCAA
       ********** ******* ** ********** ********** ********** **********
   76″ CTCAGATTCC TGGAGAG-GA AGCCAAGTGT CCTTCTGCCC TCCCCCGGTA TCCCATCCAA

  898' GGCGATCANG TCCAGAACTG GCTCTCGGAA GCGCTCGGGC AAAGACTGCG AAGAAGAAAN
       ******** * ********** ********** ********** ********** *********
  135″ GGCGATCA-G TCCAGAACTG GCTCTCGGAA GCGCTCGGGC AAAGACTGCG AAGAAGAAA-

  958' AGACATCTGG CGGAAACCTG TGCGCCTGGG GCGGTGGAAC TCGGGGAGGA NGAGGGAGGG
       ********** ********** ********** ********** **********  *********
  193″ AGACATCTGG CGGAAACCTG TGCGCCTGGG GCGGTGGAAC TCGGGGAGGA -GAGGGAGGG

 1018' ATCAGACAGG AGAGTGGGGA CTACCCCCTC TGCTCCCAAA TNTGGGGCAG CTTCCTGGGT
       ********** ********** ********** ********** * ******** **********
  252″ ATCAGACAGG AGAGTGGGGA CTACCCCCTC TGCTCCCAAA T-TGGGGCAG CTTCCTGGGT

 1078' TTCCGATTTT CTCATTTCCG TGGGTAAAAA ACNCCTGCCC CCACCGGGCT TACGCAATTT
       ********** ********** ********** ** ******* ********** **********
  311″ TTCCGATTTT CTCATTTCCG TGGGTAAAAA AC-CCTGCCC CCACCGGGCT TACGCAATTT

 1138' TTTTAAGGGG AGAGGAGGGA AAANATTTGT GGGGGGTACG AAAAGGCGGA AAGAAACAGT
       ********** ********** *** ****** ********** ********** **********
  370″ TTTTAAGGGG AGAGGAGGGA AAA-ATTTGT GGGGGGTACG AAAAGGCGGA AAGAAACAGT

 1198' CATTTCGTCA CATGNGGCTT GGTTTTCAGT CTTATAAAAA GGAAGGTTCT CTCGGTTAGC
       ********** **** ***** ********** ********** ********** **********
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 429″ CATTTCGTCA CATG-GGCTT GGTTTTCAGT CTTATAAAAA GGAAGGTTCT CTCGGTTAGC

1258' GACCANATTG TCATACGACT TGCAGTGAG- CGTCAGGAGC ACGTCCAGGA -ACTCCTCAG
      ***** **** ********** *********  ********** **********  *********
 488″ GACCA-ATTG TCATACGACT TGCAGTGAGT CGTCAGGAGC ACGTCCAGGA CACTCCTCAG

1316' CAGATCAAGA TCTGGCCTCG GCGGCCAAGC TTGGCA-ATC CGGTACTGTT GGTAAAGCCA
      ********** ********** ********** ****** *** ********** **********
 547″ CAGATCAAGA TCTGGCCTCG GCGGCCAAGC TTGGCACATC CGGTACTGTT GGTAAAGCCA

1375' CCATGGAAGA TGCCAAAAAC ATTAAGAAGG GCCCAGCGCC ATTCTACCCA CTCGAAGACG
      ******** * ******* ** **
 607″ CCATGGAACA TGCCAAACAC AT
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