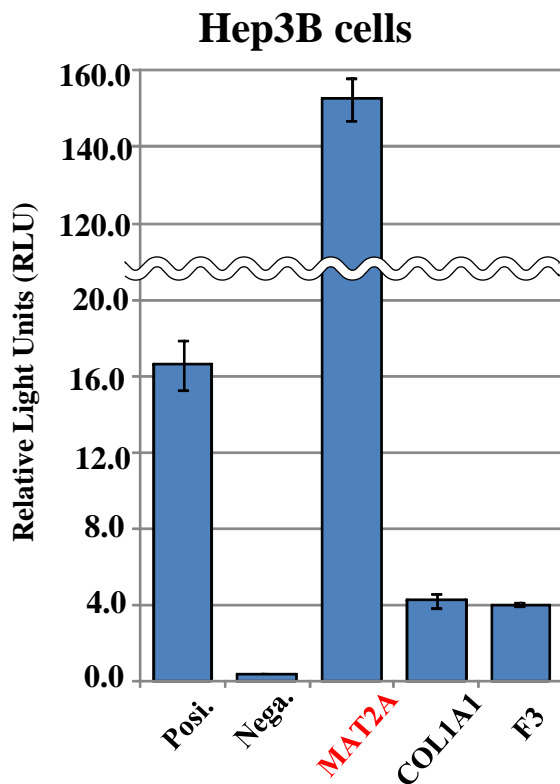
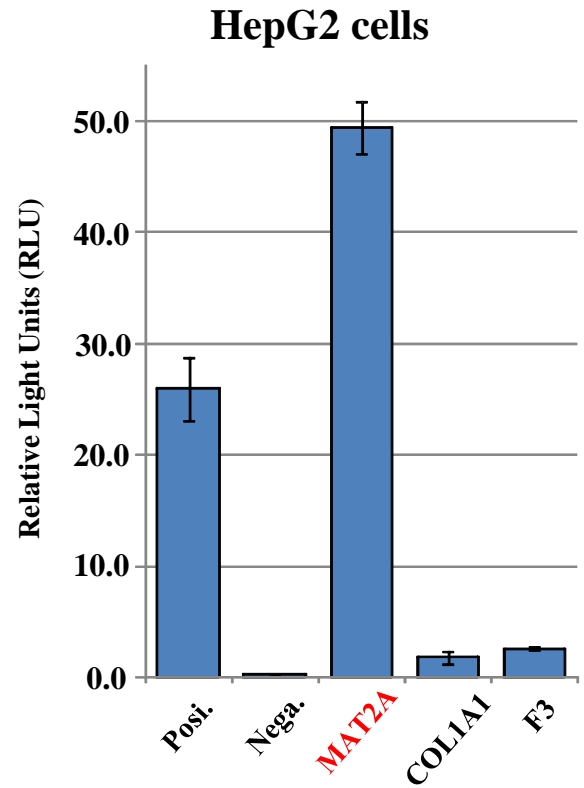
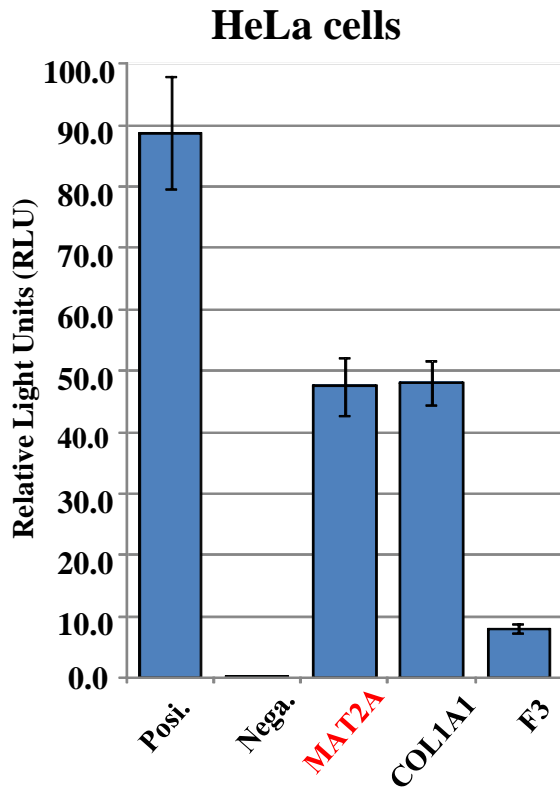


The Promoter Activities of Reporter Constructs



Posi.: pGL3 Control Vector
(SV40 promoter)

Nega.: Empty Vector

MAT2A: pGL4-phMAT2A (RDB# 7393)

COL1A1: pGL4-phCOL1A1 (RDB# 7459)

F3: pGL4-phF3 (RDB# 7458)

[GENETYX : Nucleotide Sequence Homology Data]

Date : 2010.01.25

1st Nucleotide Sequence

File Name : Reference Seq.gnu
Sequence Size : 5544

2nd Nucleotide Sequence

File Name : RDB7393F.fasta
Sequence Size : 496

Unit Size to Compare = 1
Pick up Location = 1

[97.297% / 481 bp] INT/OPT.Score : < 394/ 1749 >

```
1'          GGCCT-A ACTGGCCGGT ACCTGAGCTC GCTAGCCTCG
          ***** * *****
1" TGCAGGTGCC AGAACATTTT TCTGGCCTAA ACTGGCCGGT ACCTGAGCTC GCTAGCCTCG

37' AGGATATTAA ACCCGGCGTT -CTTGTACG CGCTCCGCNT CAGGGCCACC AGGCCACCAG
          ***** ***** ***** ***** * *****
61" AGGATATTAA ACCCGGCGTT CCTTGTACG CGCTCCGC-T CAGGGCCACC AGGCCACCAG

96' CCCGACCAGA CCTGCACCGA GGCCAGCCN CCAGAACAGG CTGCAGAGAC CCCC GCCCCC
          ***** ***** ***** ***** *****
120" CCCGACCAGA CCTGCACCGA GGCCAGCC- CCAGAACAGG CTGCAGAGAC CCCC GCCCCC

156' AAGGCGGGCT CCCTCAAAC NGGACTCCA TACTCCTTGC TGGCTCAAGT TTTGTTTCGC
          ***** ***** ***** ***** *****
179" AAGGCGGGCT CCCTCAAAC -GGACTCCA TACTACTTGC TGGCTCAAGT TTTGTTTCGC

216' TCTTTTCCC TNGTAATTCC TTTATTGGG AAAACTGGGA CAAACGCAGG TGGACATTTT
          ***** * ***** ***** ***** *****
238" TCTTTTCCC T-GTAATTCC TTTATTGGG AAAACTGGGA CAAACGCAGG TGGACATTTT
```



```

276' AANAGTAAA GCTTCATGAA ACAGCCATT CCACGCCGTC AAGAGATCTG CTTNAAGCAC
    ** ***** ***** ***** ***** ***** ***** *****
297'' AA-AGTAAA GCTTCATGAA ACAGCCATT CCACGCCGTC AAGAGATCTG CTT-AAGCAC

336' ATTCAAGGGA ACGAATAGCC CCCACCCACC AAAAAAGAAA TGTTNCGTTC CATATTCTCC
    ***** ***** ***** ***** ***** ***** *****
355'' ATTCAAGGGA ACGAATAGCC CCCACCCACC AAAAAAGAAA TGTT-CGTTC CATATTCTCC

396' TGAACAGAGG ATTGAAACAT CGATTCCCC CCCCTNTCAA AGGAACAGGA AGGCCACGGG
    ***** ***** ***** ** * . **** ***** *****
414'' TGAACAGAGG ATTGAAACAT CGATTCCCC CCTC-GTCAA AGGAACAGGA AGGCCACGGG

456' GCAAGGACGG ACTTGGGAGC GGCCTCNCTT TCTCTCTGGA GGGAAAGGCT GGAGCGCTGC
    ***** ***** ****

473'' GCAAGGACGG ACTTGGGAGC GGCC

```

1st Nucleotide Sequence

File Name : Reference Seq. gnu
Sequence Size : 5544

2nd Nucleotide Sequence

File Name : RDB7393R. fasta (Complementary)
Sequence Size : 538

Unit Size to Compare = 1

Pick up Location = 1

[97.258% / 547 bp] INT/OPT. Score : < 961/ 1971 >

```

841' CGGCCAGAAA GACCCAGCC GCAGCACAAA ACCTCCGCGA TTCCGCGGN CCTCCGCTGG
    ** . ***** *
1'' CCG CCTCCGCT-G

```



901' GGGACGCGAC CTCCGGGAAA GCTATCCCGG CCAACGGTCG NGAAGGGAGG TGCCATGTCA

 14" GGGACGCGAC CTCCGGGAAA GCTATCCCGG CCAACGGTCG -GAAGGGAGG TGCCATGTCA

961' CCGCACAGGG GAGCGGGTCC AGCAAGCCCC ANGTGCTTT TTCTCCCACA TCAAACAAGG

 73" CCGCACAGGG GAGCGGGTCC AGCAAGCCCC A-GTCGCTTT TTCTCCCACA TCAAACAAGG

1021' AAGAGCAATC CCCACGTCT CCNTCGCGTC TGCATTTTTC TCCTAGCTCT AGCGGCTCAA

 132" AAGAGCAATC CCCACGTCT CC-TCGCGTC TGCATTTTTC TCCTAGCTCT AGCGGCTCAA

1081' GATAGCTGAA CGGNTCTCTG GAGGGCCGGA TTGCCACGGC ACCTCCCGCG GCCG-CGCAG

 191" GATAGCTGAA CGG-TCTCTG GAGGGCCGGA TTGCCACGGC ACCTCCCGCG GCCGTGCAG

1140' TGTGGNTTCA GCCCGGACTC CGCGGGGCGA GCTGCC-CTT CCTCCCCGA CCCCCGNGC

 250" TGTGG-TTCA GCCCGGACTC CGCGGGGCGA GCTGCCGCTT CCTCCCCGA CCCCCG-GC

1199' AAGTGGTGCA TTGGCG-CGC GCGCCGAGG GCGGGGCC GAGCCGGCN GCGCGGGGC

 308" AAGTGGTGCA TTGGCGTCGC GCGCCGAGG GCGGGGCC GAGCCGGC- GCGCGGGGC

1258' GCTGC-TCTA TAAATACCGG GCCGCACCGC CCGTGCTTC GNTTCGCTCC GCGCCGCCG

 367" GCTGCTTCTA TAAATACCGG GCCGCACCGC CCGTGCTTC G-TTCGCTCC GCGCCGCCG

1317' CCTGCTACGA GTAGAAGCT GTCCGCAATC AAGATCTGGC CTCGGCGCC AAGCTTGCA

 426" CCTGCTACGA GTAGAAGCT GTCCGCAATC AAGATCTGGC CTCGGCGCC AAGCTTGCA

1377' ATCCGGTACT GTTGGTAAAG CCACCATGGA AGATGCCAAA AACATTAAGA AGGGCCAGC

 486" ATCCGGTACT GTTGGTAAAG CCACCATGGA AGATGCCAAA AACATTAAGA AGG