



Posi.: pGL3 Control Vector  
(SV40 promoter)

Nega.: Empty Vector

BRCA2: pGL4-phBRCA2(RDB# 7691)

HIF1A: pGL4-phHIF1A(RDB# 7693)

ATF3: pGL4-phATF3 (RDB# 7710)

[ GENETYX : Nucleotide Sequence Homology Data ]

Date : 2010.03.01

1st Nucleotide Sequence

File Name : Reference Seq (insert)  
Sequence Size : 1482

2nd Nucleotide Sequence

File Name : RDB7710F.fasta  
Sequence Size : 709

Unit Size to Compare : 6

Percent Similarity : 98.3

Percent Identity : 98.1

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1' CCAGGCTCCA GACACCTCTA GTTCTACCC CAAATTACCA AACTGTGACC TTCGGCCGCC
*****
60" CCAGGCTCCA GACACCTCTA GTTCTACCC CAAATTACCA AACTGTGACC TTCGGCCGCC

61' TCTCTCCCAG AGGCAGGTGG AAAGGAGCAG GTGTTTCTGC CCTTCACCGT GCCCCACAC
*****
120" TCTCTCCCAG AGGCAGGTGG AAAGGAGCAG GTGTTTCTGC CCTTCACCGT GCCCCACAC

121' CCTGCGGCCG CGCAGGTCTC CCTCCAGGC AGGTGCGAAA GTCCCAGGCC ACACTTGTGT
*****
180" CCTGCGGCCG CGCAGGTCTC CCTCCAGGC AGGTGCGAAA GTCCCAGGCC ACACTTGTGT

181' CTACAAATAG TCATCCACGG GCAGTCAAGA AGGTTCTTG GTTCTGCCG TCTCTGAGCA
*****
240" CTACAAATAG TCATCCACGG GCAGTCAAGA AGGTTCTTG GTTCTGCCG TCTCTGAGCA

241' GAAATTGTTG GGGTCGGGGA ATAAGAACCA GAAATCGTT TTTAAGGTT AAACCCAGTT
*****
300" GAAATTGTTG GGGTCGGGGA ATAAGAACCA GAAATCGTT TTTAAGGTT AAACCCAGTT
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301' CTGCTGAGGT CTCAGCTCGA ATCTCGGACC ACGGGGCCCC GCCTTTCCCG CCACCCTGGC
*****
360'' CTGCTGAGGT CTCAGCTCGA ATCTCGGACC ACGGGGCCCC GCCTTTCCCG CCACCCTGGC

361' TTGAGGGCAG A-GGGGATTT CTGCTGCGGG TTCCGCCTGT GGTCAATTGCG TCCCCATTCC
***** * *****
420'' TTGAGGGCAG ATCGGGATTT CTGCTGCGGG TTCCGCCTGT GGTCAAGTGGC TCCCCATTCC

420' GGGCCGTCCG GTCCCAGTCC AATCGGCTCT GGGAGCAGAA GAACACGTGA AAGCTGAACA
***** *****
480'' GGGCCGTCCG GTCCCAGTCC AATCGGCTCT GGGAGCAGAA GAACACGTGA AAGCTGAAGA

480' TGGGTTTTCC CTAAATATTG CCTGAGAGCG GGGCGACCCC CAGGC-CTGG GCA-GGTTCC
***** ***** ** ** * * . *****
540'' TGGGTTTTCC CTAAATATTG CCTGAGAGCG GGGCGACCCC CATGCTCTTG TCNTTGTTCC

538' CGGACCCCAA AGCACCTTCT CTTTCCCCT CCTCCTGGCC GCTGGCTTCC GCCCCCTCCT
* ***** ***** ***** ***** ***** ** ***** **
600'' CTGACCCCAA AGCACCTTCT CTTT-CCCCT CCTCCTGGCC GCTGGC-TCC GCCCCCT-CT

598' ACCCTCCCAC CGGGTTGCCT CTGATTCTC CTGGACTIONG ATCTTTTAC GCTCTTGT
* *** ** * ***** ** ***** ** ** ***** *****
657'' A-CCTTCCAC CCGGTTG-CT CTGATTCTC- CTGAACT-CG ATC-TTTCAC GCTCTTGT

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1st Nucleotide Sequence

File Name : Reference Seq (insert)  
Sequence Size : 1482

2nd Nucleotide Sequence

File Name : RDB7710R.fasta (Complementary)  
Sequence Size : 523

Unit Size to Compare : 6



Percent Similarity : 99.8  
Percent Identity : 99.8

1043' CACGCATTTT AGAG-AAAGG TCGTGCCCGC TTCCCAGCCT CACCTAGTCT GGGCTGGGGC  
\*\*\*\*\*  
523" AACGCATTTT AGAGAAAAGG TCGTGCCCGC TTCCCAGCCT CACCTAGTCT GGGCTGGGGC  
\*\*\*\*\*

1102' C-GGGACCCG CCTCCCCACC TTCCCGGCC CCCCGCTCT TCAACCTAGC GGAGGGACAG  
\* \*\*\*\*\*  
463" CGGGGACCCG CCTCCCCACC TTCCCGGCC CCCCGCTCT TCAACCTAGC GGAGGGACAG  
\*\*\*\*\*

1161' ATGCCAGCGC GGTGGAGTCA TGCCGCTGGC TTGGGCACCA TTGGTCATGC CTGGAACACG  
\*\*\*\*\*  
403" ATGCCAGCGC GGTGGAGTCA TGCCGCTGGC TTGGGCACCA TTGGTCATGC CTGGAACACG  
\*\*\*\*\*

1221' CAGCAGCGAG TACGCACATC TGGCGCTAT CCCGGGCGGC TCCGGTCCTG ATATGGAGAG  
\*\*\*\*\*  
343" CAGCAGCGAG TACGCACATC TGGCGCTAT CCCGGGCGGC TCCGGTCCTG ATATGGAGAG  
\*\*\*\*\*

1281' AGAGGGCGGG CTGGTGTGTG TCTCAGTGAG CGAGGCTGGG GGAACGCGCC TGGGCTGGCT  
\*\*\*\*\*  
283" AGAGGGCGGG CTGGTGTGTG TCTCAGTGAG CGAGGCTGGG GGAACGCGCC TGGGCTGGCT  
\*\*\*\*\*

1341' CCTCCCGAA CTTGCATCAC CAGTGCCCC TCTCTCCACC CGCCTTCGGC CCCGCCTTGG  
\*\*\*\*\*  
223" CCTCCCGAA CTTGCATCAC CAGTGCCCC TCTCTCCACC CGCCTTCGGC CCCGCCTTGG  
\*\*\*\*\*

1401' CCCCTCCTCC ACCCCCTTC CTCGGCTCCG TTCGGCCGGT TCTCCGGGA AGCTATTAAT  
\*\*\*\*\*  
163" CCCCTCCTCC ACCCCCTTC CTCGGCTCCG TTCGGCCGGT TCTCCGGGA AGCTATTAAT  
\*\*\*\*\*

1461' AGCATTACGT CAGCCTGGGA CT  
\*\*\*\*\*  
103" AGCATTACGT CAGCCTGGGA CT

