



Posi.: pGL3 Control Vector
(SV40 promoter)

Nega.: Empty Vector

MAD1L1: pGL4-phMAD1L1 (RDB# 7374)

CHUK: pGL4-phCHUK (RDB# 7383)

DUSP12: pGL4-phDUSP2 (RDB# 7384)

FDXR: pGL4-phFDXR (RDB#7385)

[GENETYX : Nucleotide Sequence Homology Data]

Date : 2009.04.24

1st Nucleotide Sequence

File Name : Reference Seq.gnu
Sequence Size : 5595

2nd Nucleotide Sequence

File Name : RDB7385F.fasta
Sequence Size : 643

Unit Size to Compare = 1
Pick up Location = 1

[99.195% / 621 bp] INT/OPT.Score : < 2414/ 2434 >

```
1'          GG CCTAACTGGC CGGTACCTGA GCTCGCTAGC CTCGAGGATT
          ** *****
1'' GTGCCAGAAC ATTTCTCTGG CCTAACTGGC CGGTACCTGA GCTCGCTAGC CTCGAGGATT

43' GGTCTAGTGG GACAGGCATA AACACAGTG ACCTATTAGA AAGCAGACAG CATTACTTA
          *****
61'' GGTCTAGTGG GACAGGCATA AACACAGTG ACCTATTAGA AAGCAGACAG CATTACTTA

103' CCAGTGGGAG GGAGGGGAAG TGACCAGTAA GGGCACAGAG GACTCCTGGG ATACTGGCCA
          *****
121'' CCAGTGGGAG GGAGGGGAAG TGACCAGTAA GGGCACAGAG GACTCCTGGG ATACTGGCCA

163' TGTTTTATTT CTTGATCTGG GTGGTGGTTA TATGTTACA CCTTGTGATA TATTGTCAAG
          *****
181'' TGTTTTATTT CTTGATCTGG GTGGTGGTTA TATGTTACA CCTTGTGATA TATTGTCAAG

223' TTGTACTCTC ATGATTTGTG CACTTTTCTG TATGTTATTA TTGAATTTAA AATCTCATTA
          *****
241'' TTGTACTCTC ATGATTTGTG CACTTTTCTG TATGTTATTA TTGAATTTAA AATCTCATTA
```



```

283' AAAACGACAA CCAGTGTAGT AAGTCATGAT GGGATAAGGT CAGATGCTGT GGAATGAGAG
*****
301" AAAACGACAA CCAGTGTAGT AAGTCATGAT GGGATAAGGT CAGATGCTGT GGAATGAGAG

343' GCCTTTAACT CCTTGGAAC TGGGAGGGGA CGGGTCAGAG AAAAGGCTTC TCCAAGGAAG
*****
361" GCCTTTAACT CCTTGGAAC TGGGAGGGGA CGGGTCAGAG AAAAGGCTTC TCCAAGGAAG

403' TAATATTTGA CAAGAGGGCC CATGGGGAAA AGGAAGAGGG GTTAGGATTA TTGGGTCAGC
*****
421" TAATATTTGA CAAGAGGGCC CATGGGGAAA AGGAAGAGGG GTTAGGCTTA TTGGGTCAGC

463' TGTGACTACG GATCCTGTCC TTATTTTAA AACATTTTG ATCATAGACT TTTTGCATTA
*****
481" TGTGACTACG GATCCTGTCC TTATTTTAA AACATTTTG ATCATAGACT TTTTGCATTA

523' CTTTTGACCT TTTAAAACGT TGCAGTATTA TATTTATCTT GATTACTGAG TGTTTTGGAG
*****
541" CTTTTGACCT TTTAAAACGT TGCAGTATTA TATTTATCTT GATACTGAG TGTTTTGGAG

583' CCCCCTTAAA TTCTGAACCC GA-GGGGAGT A-CCTCAACT CTGGTCCCGG CTCGGCTGGC
***** * ***** ** ***** * *****
601" CCCCCTTAAA TCCTGAACCC GAGGGGGAGT ACCCTCAACC TTT

```

1st Nucleotide Sequence

File Name : Reference Seq. gnu
Sequence Size : 5595

2nd Nucleotide Sequence

File Name : RDB7385R. fasta (Complementary)
Sequence Size : 633

Unit Size to Compare = 1
Pick up Location = 1



[99.052% / 633 bp] INT/OPT. Score : < 1912/ 2466 >

```
841' CTCCGGGAAG GAGCTCCCTC GCCCAGACT TCCGACTCT GGTATTTC CAACGGCGGG
*****
1'' TTCCGGGAA- GAGCTCCCTC GCCCAGACT TCCGCAATCT GGTATTTC CAACGGCGGG

901' AAGGCTCGCT TGGAGCCGGA CTCGTGATTG GCTAGGACGA AGTCACGTGG GAGGATTCGC
*****
60'' AAGGCTCGCT GGGAGCCGGA CTCGTGATTG GCTAGGACGA AGTCACGTGG GAGGATTCGC

961' AATCAAAT-G GCAAGGGCGT CTGCGTCATC AGTGA-GCGA CGAGAGCCTC CCGAGAGGGG
***** *
120'' AATCAAATGG GCAAGGGCGT CTGCGTCATC AGTGAGGCGA CGAGAGCCTC CCGAGAGGGG

1019' CGCGGCTAAG TAAAATAAGC TCCTTTCTTA GTGGCTGTTT CCTTGGGGAG GGAAGTAAAC
*****
180'' CGCGGCTAAG TAAAATAAGC TCCTTTCTTA GTGGCTGTTT CCTTGGGGAG GGAAGTAAAC

1079' AGCGATGGGG ATTCGCTCTC TTCCAACCCT AGGCTTCCGG GATTTGAGG GAAGGTGAGG
*****
240'' AGCGATGGGG ATTCGCTCTC TTCCAACCCT AGGCTTCCGG GATTTGAGG GAAGGTGAGG

1139' CCTGGGGAGA AATGTATTAA ATCGCGTATA CCCCGGATGC TCCGAGGGGC GGGGCTTCGA
*****
300'' CCTGGGGAGA AATGTATTAA ATCGCGTATA CCCCGGATGC TCCGAGGGGC GGGGCTTCGA

1199' CGGTGGGGCG TAGTTAAGG CGGGTCTCTC TTTTGGGGC GGGATTCTCT CGGGAGTCGG
*****
360'' CGGTGGGGCG TAGTTAAGG CGGGTCTCTC TTTTGGGGC GGGATTCTCT CGGGAGTCGG

1259' GGTGGAGCCG CAAGGCTCCG CTTTCCCGGA GCGCAGGGG CGGGGTTTGG GGCGGGCCT
*****
420'' GGTGGAGCCG CAAGGCTCCG CTTTCCCGGA GCGCAGGGG CGGGGTTTGG GGCGGGCCT

1319' CGTTGTGGG CGGGCCCGG CAGGAGCGG CTTGCCCTGC GGAGCAGTAG CTAGGAACAG
*****
```



480" CGCTTGTGGG CGGGCCCGGG CAGGAGCGGG CTTGCCCTGC GGAGCAGTAG CTAGGAACAG

1379' ATCCACTTGC AGGTTGATCA AGATCTGGCC TCGGCGGCCA AGCTTGGCAA TCCGGTACTG

540" ATCCACTTGC AGGTTGATCA AGATCTGGCC TCGGCGGCCA AGCTTGGCAA TCCGGTACTG

1439' TTGGTAAAGC CACCATGGAA GATGCCAAAA ACATTAAGAA GGGCCCAGCG CCATTCTACC

600" TTGGTAAAGC CACCATGGAA GATGCCAAAA ACAT