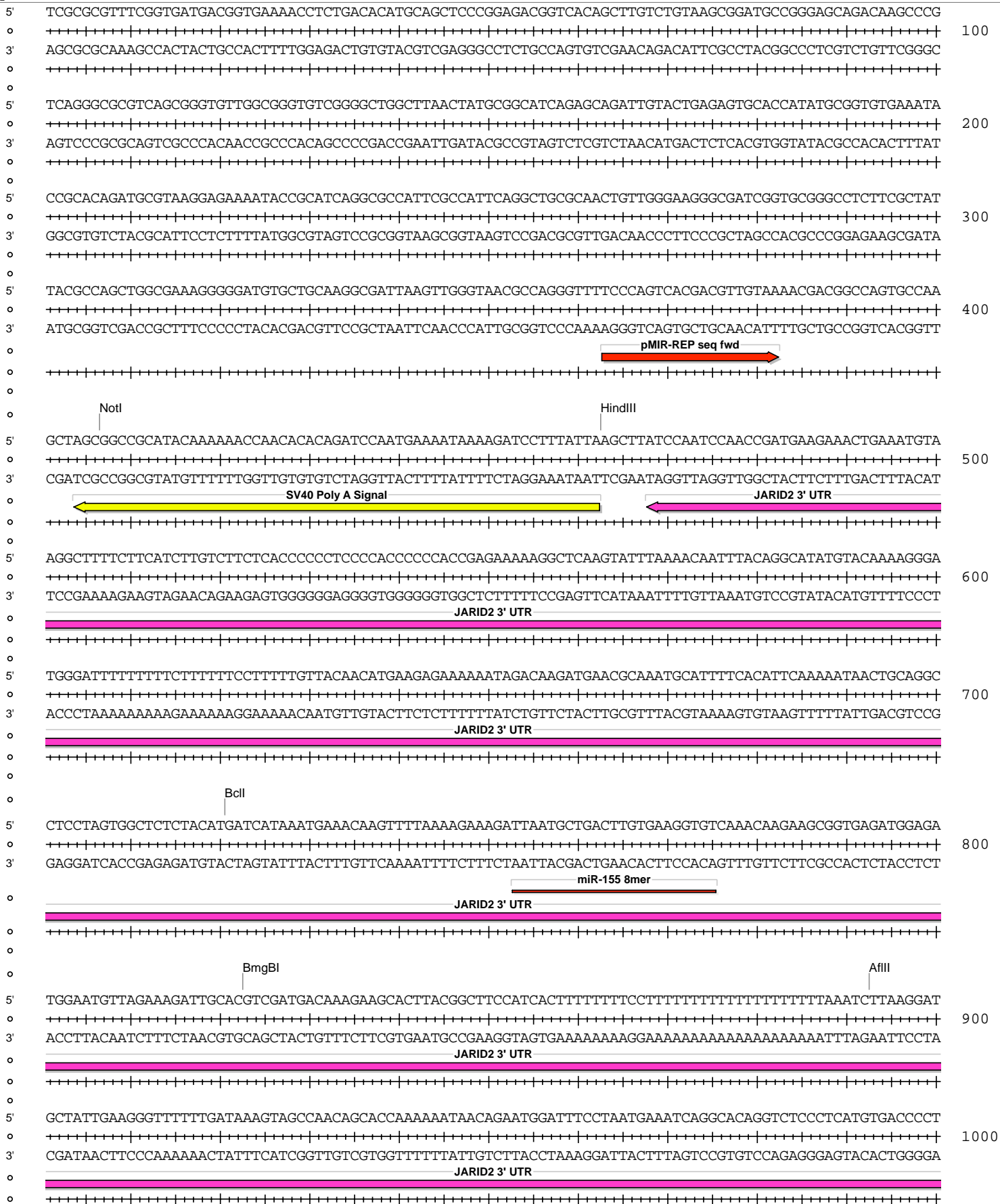


## pMIR-REP-dCMV-JARID2 3' UTR (9-1240) wt

Absent Sites	0	AarI,AbstI,AfeI,AleI,Apal,AscI,AsiSI,BarI,BarI',BbvCI,BlpI,Bpu10I,BsgI,BstXI,BstZ17I,EcoICRI,FseI,FspAI,MauBI,MluI,MreI,NaeI,NgoMIV,NruI,PasI,PfIMI,PmeI,PmlI,PshAI,PspOMI,SacI,SanDI,SgrDI,SpeI,SrfI,Swal
Acc65I	1	3636 (7306)
AccI	1	6771 (7306)
AfIII	1	893 (7306)
AgeI	1	6939 (7306)
AhdI	1	4993 (7306)
AjuI	1	2482 (7306)
AjuI'	1	2514 (7306)
Alol	1	3395 (7306)
Alol'	1	3363 (7306)
AlwNI	1	4516 (7306)
ArsI	1	2183 (7306)
ArsI'	1	2215 (7306)
AvrII	1	6990 (7306)
BaeI	1	1500 (7306)
BaeI'	1	1533 (7306)
BamHI	1	3371 (7306)
BclI	1	721 (7306)
BglIII	1	1701 (7306)
BmgBI	1	823 (7306)
BsaBI	1	6155 (7306)
BsmI	1	6068 (7306)
BssHII	1	6423 (7306)
Bsu36I	1	2750 (7306)
BtgZI	1	3621 (7306)
Clal	1	1999 (7306)
CspCI	1	3585 (7306)
CspCI'	1	3550 (7306)
DraIII	1	6314 (7306)
EcoNI	1	1748 (7306)
EcoO109I	1	2184 (7306)
EcoRV	1	2028 (7306)
HindIII	1	463 (7306)
HpaI	1	6054 (7306)
KpnI	1	3640 (7306)
MscI	1	6507 (7306)
NotI	1	407 (7306)
PacI	1	2044 (7306)
PciI	1	4100 (7306)
PpuMI	1	2184 (7306)
PspXI	1	1712 (7306)
Psrl	1	3233 (7306)
Psrl'	1	3201 (7306)
RsrII	1	6763 (7306)
SacII	1	6670 (7306)
Sall	1	6770 (7306)
SbfI	1	6962 (7306)
SfiI	1	7044 (7306)
SgrAI	1	1934 (7306)
SnaBI	1	3619 (7306)
SspI	1	5797 (7306)
Tth111I	1	6839 (7306)
XcmI	1	2632 (7306)
XhoI	1	1712 (7306)

pMIR-REP-dCMV-JARID2 3' UTR (9-1240) wt



pMIR-REP-dCMV-JARID2 3' UTR (9-1240) wt



pMIR-REP-dCMV-JARID2 3' UTR (9-1240) wt

5' TACTTCGTCCACAAACACAACCTCCTCCGCGCAACTTTTTTCGCGGTTGTTACTTGGCTGGCGACGTAATCCACGATCTCTTTTCCGTCATCGTCTTTCCG  
 1900  
 3' ATGAAGCAGGTGTTTGTGTTGAGGAGGCGCGTTGAAAAAGCGCCAACAATGAACTGACCGCTGCATTAGGTGCTAGAGAAAAAGGCAGTAGCAGAAAAGGC  
 pMIR-REP seq rev  
 Luciferase

5' TGCTCCAAAACAACAACGGCGGCGGGAAGTTTACCCGGCGTCATCGTCGGGAAGACCTGCCACGCCCGCTCGAAGATGTTGGGGTGTGTAACAATATCG  
 2000  
 3' ACGAGGTTTTGTGTTGCGGCCGCCCTTCAAGTGGCCGAGTAGCAGCCCTTCTGGACGGTGCAGGCGCAGCTTCTACAACCCCAACAATTTGTTATAGC  
 Luciferase

5' ATTCCAATTCAGCGGGGGCCACCTGATATCCTTTGTATTTAATTAAGACTTCAAGCGGTCAACTATGAAGAAGTGTTCGTCTTCGTCCCAGTAAGCTAT  
 2100  
 3' TAAGGTTAAGTCGCCCCGGTGGACTATAGGAAACATAAATTAATTTCTGAAGTTCGCCAGTTGATACTTCTTACAAGCAGAAGCAGGGTCATTTCGATA  
 Luciferase

5' GTCTCCAGAATGTAGCCATCCATCCTTGTCAATCAAGGCGTTGGTCGCTTCCGGATTGTTTTACATAACCGGACATAATCATAGGTCCTCTGACACATAAT  
 2200  
 3' CAGAGTCTTACATCGGTAGGTAGGAACAGTTAGTTCCGCAACCAGCGAAGGCCTAACAAATGTATTGGCCTGTATTAGTATCCAGGAGACTGTGTATTA  
 Luciferase

5' TCGCCTCTCTGATTAACGCCAGCGTTTTTCCCGGTATCCAGATCCACAACCTTCGCTTCAAAAAATGGAACAACCTTACCGACCGCGCCCGGTTTATCAT  
 2300  
 3' AGCGGAGAGACTAATTGCGGGTGCAAAAGGGCCATAGGTCTAGGTGTTGGAAGCGAAGTTTTTTACCTTGTTGAAATGGCTGGCCGCGGGCCAAATAGTA  
 Luciferase

5' CCCCCTCGGGTGAATCAGAATAGCTGATGTAGTCTCAGTGAGCCATATCCTTGTTCGTATCCCTGGAAGATGGAAGCGTTTTGCAACCGCTTCCCCGAC  
 2400  
 3' GGGGAGCCACATTAGTCTTATCGACTACATCAGAGTCACTCGGGTATAGGAACAGCATAGGGACCTTCTACCTTCGCAAAACGTTGGCGAAGGGGCTG  
 Luciferase

5' TTCTTTCGAAAGAGGTGCGCCCCAGAAGCAATTCGTGTAAATTAGATAAATCGTATTTGTCAATCAGAGTGCCTTTGGCGAAGAATGAAAATAGGGTT  
 2500  
 3' AAGAAAGCTTCTCCACGCGGGGCTCTCGTTAAAGCACATTTAATCTATTTAGCATAAACAGTTAGTCTCACGAAAACCGCTTCTTACTTTTATCCCAA  
 Luciferase

5' GGTACTAGCAACGCACTTTGAATTTTGTAAATCCTGAAGGATCGTAAAAACAGCTCTTCTTCAAATCTATACATTAAGACGACTCGAAATCCACATATCA  
 2600  
 3' CCATGATCGTTGCGTGAAACTTAAACATTAGGACTTCCCTAGCATTTTTTGTGAGAGAAGAAGTTTAGATATGTAATCTGCTGAGCTTTAGGTGTATAGT  
 Luciferase

SgrAI

Clal

EcoRV

PacI

ArsI  
EcoO109I  
PpuMI

ArsI'

AjuI

AjuI'

XcmI

5' AATATCCGAGTGTAGTAAACATTCCAAACCGTGATGGAATGGGACAACACTTAAATCGCAGTATCCGGAACGATTTGATTGCCAAAAATAGGATCTCT 2700  
3' TTATAGGCTCACATCATTTGTAAGGTTTGGCACTACCTTACCCTGTTGTGAATTTTAGCGTCATAGGCCTTGCTAAACTAACGGTTTTTATCCTAGAGA

Luciferase

Bsu36I

5' GGCATGCGAGAATCTGACGCAGGAGTCTATGCGGAAGGCCACACCCTTAGGTAACCCAGTAGATCCAGAGGAATTCATTATCAGTGCAATTGTTTGG 2800  
3' CCGTACGCTCTTAGACTGCGTCCGTCAAGATACGCCTTCCCGGTGTTGGGAATCCATTGGGTCATCTAGGTCTCCTTAAGTAATAGTCACGTTAACAAAAC

Luciferase

5' TCACGATCAAAGGACTCTGGTACAAAATCGTATTCATTTAAACCCGGAGGTAGATGAGATGTGACGAACGTGTACATCGACTGAAATCCCTGGTAATCCG 2900  
3' AGTGCTAGTTTCTGAGACCATGTTTTAGCATAAGTAATTTGGCCCTCCATCTACTCTACACTGCTTGACATGTAGCTGACTTTAGGGACCATTAGGC

Luciferase

5' TTTTAGAATCCATGATAATAATTTCTGGATTATGGTAATTTTTTTGACAGTTCAAAAATTTTTGCAACCCCTTTTTGGAAACAAACACTACGGTAGG 3000  
3' AAAATCTTAGTACTATTATTTAAAGACCTAATAACCATTTAAAAAAGCTGCAAGTTTTTAAAAACGTTGGGGAAAAACCTTTGTTTGTGATGCCATCC

Luciferase

5' CTGCGAAATGTTCATACTGTTGAGCAATTCACGTTTATTATAAATGTCGTTTCGCGGGCGCAACTGCAACTCCGATAAATAACGCGCCCAACACCGGCATA 3100  
3' GACGCTTTACAAGTATGACAACCTGTTAAGTGAAGTAATATTTACAGCAAGCGCCCGGTTGACGTTGAGGCTATTTATTGCGCGGGTTGTGCCCCTAT

Luciferase

5' AAGAATTGAAGAGAGTTTTCACTGCATACGACGATTCTGTGATTTGTATTCAGCCCATATCGTTTCATAGCTTCTGCCAACCGAACGGACATTTCGAAGT 3200  
3' TTCTTAACCTCTCTCAAAGTGACGTATGCTGCTAAGACTAAACATAAGTCGGGTATAGCAAAGTATCGAAGACGGTTGGCTTGCTGTAAAGCTTCA

Luciferase

Psrl'

Psrl

5' ATTCGCGTACGTGATGTTACCTCGATATGTGCATCTGTAAGCAATTTGTTCCAGGAACCAGGGCGTATCTCTTCATAGCCTTATGCAGTTGCTCTCC 3300  
3' TAAGGCGCATGCACTACAAGTGGAGCTATACACGTAGACATTTTCGTTAACAAGGTCCTTGGTCCCAGCATAGAGAAGTATCGGAATACGTCAACGAGAGG

Luciferase

AloI'

BamHI

AloI

5' AGCGGTTCCATCCTCTAGAGGATAGAATGGCGCCGGGCTTTCTTTATGTTTGGCGTCTTCCATGGTGGATCCACGGTTCACATAAACCGCTCTGCTT 3400  
3' TCGCCAAGGTAGGAGATCTCCTATCTTACC GCGCCCGGAAAGAAATACAAAACCGCAGAAGGTACCACCTAGGTGCCAAGTGATTTGGTTCGAGACGAA

Luciferase

Luc 3' seq fwd primer

CMV enhancer promoter

5' ATATAGACCTCCCACCGTACACGCCTACCGCCATTGCGTCAATGGGGCGGAGTTGTTACGACATTTTGAAAGTCCCGTTGATTTGGTGC AAAACA 3500  
3' TATATCTGGAGGGTGGCATGTGCGGATGGCGGGTAAACGCAGTTACCCCGCTCAACAATGCTGTAAAACCTTTT CAGGGCAACTAAAACCGGTTTTGT

CMV enhancer promoter

