**Gibson Control Experiment Oligo Documents (Final!)**

Promoter (J23100) Construct

RA\_LB\_For (Adds J23100 to BD18)

5’ GTCCTAGGTACAGTGCTAGC GGGCCCAAGTTCACTTAAAA 3’

J23100 End Sequence BD18 Begin Sequence

Ra\_Lb\_Rev (Adds BD18 to J23100)

5’ TTTTAAGTGAACTTGGGCCC GCTAGCACTGTACCTAGGAC 3’

BD18 Begin Sequence J23100 End Sequence

RB\_LA3\_For

5’ GAATTCGCGGCCGCTTCTAG TTGACGGCTAGCTCAGTCCT 3’

1A2 BR End Sequence J23100 Begin Sequence

RB\_LA3\_Rev

5’ AGGACTGAGCTAGCCGTCAA CTAGAAGCGGCCGCGAATTC 3’

J23100 Begin Sequence 1A2 BR End

RB\_LA2\_For

5’ GAATTCGCGGCCGCTTCTAG CAGATAAAAAAAATCCTTAG 3’

1A2 BR End 75 in 1A2 from J23100

RB\_LA2\_Rev

5’ CTAAGGATTTTTTTTATCTG CTAGAAGCGGCCGCGAATTC 3’

75 in 1A2 from J23100 1A2 BR End

RB\_LA1\_For

5’ GAATTCGCGGCCGCTTCTAG GCCACCTGACGTCTAAGAAA 3’

1A2 BR End 150 in 1A2 from J23100

RB\_LA1\_Rev

5’ TTTCTTAGACGTCAGGTGGC CTAGAAGCGGCCGCGAATTC 3’

150 in 1A2 from J23100 1A2 BR End

RB\_LA\_For

5’ GAATTCGCGGCCGCTTCTAG CATGAGCGGATACATATTTG 3’

1A2 BR End 225 in 1A2 from J23100

RB\_LA\_Rev

5’ CAAATATGTATCCGCTCATG CTAGAAGCGGCCGCGAATTC 3’

225 in 1A2 from J23100 1A2 BR End

Sequence Information

J23100 in Psb1A2 (J119022)

Ttgacggctagctcagtcctaggtacagtgctagc

gcggagagacctactagtagcggccgctgcaggcttcctcgctcactgactcgctgcgctcggtcgttcggctgcggcgagcggtatcagctcactcaaaggcggtaatacggttatccacagaatcaggggataacgcaggaaagaacatgtgagcaaaaggccagcaaaaggccaggaaccgtaaaaaggccgcgttgctggcgtttttccataggctccgcccccctgacgagcatcacaaaaatcgacgctcaagtcagaggtggcgaaacccgacaggactataaagataccaggcgtttccccctggaagctccctcgtgcgctctcctgttccgaccctgccgcttaccggatacctgtccgcctttctcccttcgggaagcgtggcgctttctcatagctcacgctgtaggtatctcagttcggtgtaggtcgttcgctccaagctgggctgtgtgcacgaaccccccgttcagcccgaccgctgcgccttatccggtaactatcgtcttgagtccaacccggtaagacacgacttatcgccactggcagcagccactggtaacaggattagcagagcgaggtatgtaggcggtgctacagagttcttgaagtggtggcctaactacggctacactagaaggacagtatttggtatctgcgctctgctgaagccagttaccttcggaaaaagagttggtagctcttgatccggcaaacaaaccaccgctggtagcggtggtttttttgtttgcaagcagcagattacgcgcagaaaaaaaggatctcaagaagatcctttgatcttttctacggggtctgacgctcagtggaacgaaaactcacgttaagggattttggtcatgagattatcaaaaaggatcttcacctagatccttttaaattaaaaatgaagttttaaatcaatctaaagtatatatgagtaaacttggtctgacagttaccaatgcttaatcagtgaggcacctatctcagcgatctgtctatttcgttcatccatagttgcctgactccccgtcgtgtagataactacgatacgggagggcttaccatctggccccagtgctgcaatgataccgcgagacccacgctcaccggctccagatttatcagcaataaaccagccagccggaagggccgagcgcagaagtggtcctgcaactttatccgcctccatccagtctattaattgttgccgggaagctagagtaagtagttcgccagttaatagtttgcgcaacgttgttgccattgctacaggcatcgtggtgtcacgctcgtcgtttggtatggcttcattcagctccggttcccaacgatcaaggcgagttacatgatcccccatgttgtgcaaaaaagcggttagctccttcggtcctccgatcgttgtcagaagtaagttggccgcagtgttatcactcatggttatggcagcactgcataattctcttactgtcatgccatccgtaagatgcttttctgtgactggtgagtactcaaccaagtcattctgagaatagtgtatgcggcgaccgagttgctcttgcccggcgtcaatacgggataataccgcgccacatagcagaactttaaaagtgctcatcattggaaaacgttcttcggggcgaaaactctcaaggatcttaccgctgttgagatccagttcgatgtaacccactcgtgcacccaactgatcttcagcatcttttactttcaccagcgtttctgggtgagcaaaaacaggaaggcaaaatgccgcaaaaaagggaataagggcgacacggaaatgttgaatactcatactcttcctttttcaatattattgaagcatttatcagggttattgtct(225 in) catgagcggatacatatttg

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