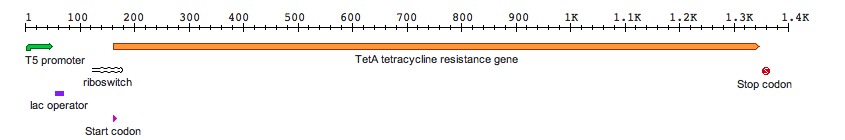
**Primers for cloning ecdM8 downstream of Riboswitch + tetA**

**J119303 in psB1A8**

**aaatcataaaaaatttatttgctttgtgagcggataacaattataatagattcaattgtgagcggataacaattactagagatacgactcactataggtaccggtgataccagcatcgtcttgatgcccttggcagcaccctgctaaggtaacaacaagatgcttaaatctaacaatgcgctcatcgtcatcctcggcaccgtcaccctggatgctgtaggcataggcttggttatgccggtactgccgggcctcttgcgggatatcgtccattccgacagcatcgccagtcactatggcgtgctgctagcgctatatgcgttgatgcaatttctatgcgcacccgttctcggagcactgtccgaccgctttggccgccgcccagtcctgctcgcttcgctacttggagccactatcgactacgcgatcatggcgaccacacccgtcctgtggatcctctacgccggacgcatcgtggccggcatcaccggcgccacaggtgcggttgctggcgcctatatcgccgacatcaccgatggggaagatcgggctcgccacttcgggctcatgagcgcttgtttcggcgtgggtatggtggcaggccccgtggccgggggactgttgggcgccatctccttgcatgcaccattccttgcggcggcggtgctcaacggcctcaacctactactgggctgcttcctaatgcaggagtcgcataagggagagcgtcgaccgatgcccttgagagccttcaacccagtcagctccttccggtgggcgcggggcatgactatcgtcgccgcacttatgactgtcttctttatcatgcaactcgtaggacaggtgccggcagcgctctgggtcattttcggcgaggaccgctttcgctggagcgcgacgatgatcggcctgtcgcttgcggtattcggaatcttgcacgccctcgctcaagccttcgtcactggccccgccaccaaacgtttcggcgagaagcaggccattatcgccggcatggcggccgacgcgctgggctacgtcttgctggcgttcgcgacgcgaggctggatggccttccccattatgattcttctcgcttccggcggcatcgggatgcccgcgttgcaggccatgctgtccaggcaggtagatgacgaccatcagggacagcttcaaggatcgctcgcggctcttaccagcctaacttcgatcattggaccgctgatcgtcacggcgatttatgccgcctcggcgagcacatggaacgggttggcatggattgtaggcgccgccctataccttgtctgcctccccgcgttgcgtcgcggtgcatggagccgggccacctcgacctaagcgttactagtagcggccgctgcagtataaacgcagaaaggcccacccgaaggtgagccagtgtgactctagtagagagcgttcaccgacaaacaacagataaaacgaaaggcccagtctttcgactgagcctttcgttttatttgatgcctgggcttcctcgctcactgactcgctgcgctcggtcgttcggctgcggcgagcggtatcagctcactcaaaggcggtaatacggttatccacagaatcaggggataacgcaggaaagaacatgtgagcaaaaggccagcaaaaggccaggaaccgtaaaaaggccgcgttgctggcgtttttccataggctccgcccccctgacgagcatcacaaaaatcgacgctcaagtcagaggtggcgaaacccgacaggactataaagataccaggcgtttccccctggaagctccctcgtgcgctctcctgttccgaccctgccgcttaccggatacctgtccgcctttctcccttcgggaagcgtggcgctttctcatagctcacgctgtaggtatctcagttcggtgtaggtcgttcgctccaagctgggctgtgtgcacgaaccccccgttcagcccgaccgctgcgccttatccggtaactatcgtcttgagtccaacccggtaagacacgacttatcgccactggcagcagccactggtaacaggattagcagagcgaggtatgtaggcggtgctacagagttcttgaagtggtggcctaactacggctacactagaaggacagtatttggtatctgcgctctgctgaagccagttaccttcggaaaaagagttggtagctcttgatccggcaaacaaaccaccgctggtagcggtggtttttttgtttgcaagcagcagattacgcgcagaaaaaaaggatctcaagaagatcctttgatcttttctacggggtctgacgctcagtggaacgaaaactcacgttaagggattttggtcatgagattatcaaaaaggatcttcacctagatccttttaaattaaaaatgaagttttaaatcaatctaaagtatatatgagtaaacttggtctgacagttaccaatgcttaatcagtgaggcacctatctcagcgatctgtctatttcgttcatccatagttgcctgactccccgtcgtgtagataactacgatacgggagggcttaccatctggccccagtgctgcaatgataccgcgggacccacgctcaccggctccagatttatcagcaataaaccagccagccggaagggccgagcgcagaagtggtcctgcaactttatccgcctccatccagtctattaattgttgccgggaagctagagtaagtagttcgccagttaatagtttgcgcaacgttgttgccattgctacaggcatcgtggtgtcacgctcgtcgtttggtatggcttcattcagctccggttcccaacgatcaaggcgagttacatgatcccccatgttgtgcaaaaaagcggttagctccttcggtcctccgatcgttgtcagaagtaagttggccgcagtgttatcactcatggttatggcagcactgcataattctcttactgtcatgccatccgtaagatgcttttctgtgactggtgagtactcaaccaagtcattctgagaatagtgtatgcggcgaccgagttgctcttgcccggcgtcaatacgggataataccgcgccacatagcagaactttaaaagtgctcatcattggaaaacgttcttcggggcgaaaactctcaaggatcttaccgctgttgagatccagttcgatgtaacccactcgtgcacccaactgatcttcagcatcttttactttcaccagcgtttctgggtgagcaaaaacaggaaggcaaaatgccgcaaaaaagggaataagggcgacacggaaatgttgaatactcatactcttcctttttcaatattattgaagcatttatcagggttattgtctcatgagcggatacatatttgaatgtatttagaaaaataaacaaataggggttccgcgcacatttccccgaaaagtgccacctgacgtctaagaaaccattattatcatgacattaacctataaaaataggcgtatcacgaggcagaatttcagataaaaaaaatgatttctgcgccgcaaaccccgcccctgacagggcggggtttcgccgcgaattcgcggccgcttctagag**

**BBa\_J119140 = Promoter + Riboswtich + TetA (psB1A8)**



**J119140 + J119303 Primer**

**J119140 forward primer:**

GCAT GGTCTC C ATAA TTACTAGTAGCGGCCGCTGC

BSAI 1bp stick end 20mer of T5 promoter + stop codon

spacer

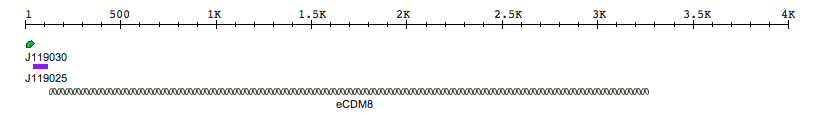
**Ribo + TetA reverse primer:**

GCAT GGTCTC C TCAA CTTAGGTCGAGGTGGCCCGG

BSAI 1bp stick end 20mer of tetA

spacer

BBa\_J119303- Promoter + cdog + eCDM8 **(psB1A8)**

****

>BBa\_J119303 Part-only sequence (3274 bp)

ttgacatcaggaaaatttttctgtataatgtgtggagggcccaagttcacttaaaaaggagatcaacaatgaaagcaattttcgtactgaaacatcttaa

tcatgctaaggaggttttctaatgaccatcaaagaaatgccgcagccgaaaacctttggtgaactgaaaaatctgccgctgctgaataccgataaaccgg

ttcatgcactgatgaaaattgcagatgaactgggcgagatctttaaattcgaagcaccgggtagcgttacccgttatctgagcagccagcgtctgattaa

agaagcatgcgacgaaagccgctttgataaaaatctgattcagtggctgaaattcatccgcgattttctgggtgatggtctgagcaccagctggacccat

gaaaaaaactggaaaaaagcccataatattctgctgccgagctttagccagcaggcaatgaaaggttatcatgcaatgatggttgatattgccgttcagc

tggttcagaaatgggaacgtctgaatgcagatgaacatattgaagttccggaagatatgacccgtctgaccctggataccattggtctgtgtggttttaa

ctatcgcttcaacagcttttatcgtgatcagccgcatccgtttgttaccagcatggttcgtgcactggatgaagcagtgaataaatggcagcgtgcaaat

ccggatgatccggcatatgatgaaaataaacgtcagttccaagaggatattaaagtgatgaatgacctggtggacaaaattatcgcagatcgtaaagcaa

gcggtgaacagagtgatgatctgctgacccatatgctgaatggtaaagatccggaaaccggtgaaccgctggatgatgaaaacattcgttatcagattat

taccttcctgattgccggtcatgaaaccaccagtggtctgctgagctttgcactgtattttctggttaaaaatccgcacgttctgcaaaaagcagccgaa

gaagcagcacgcgttctggttgatccggttccgagctataaacaggttaaacagctgaaatatgtgggcatggttctgaatgaagcactgcgtctgtggc

cgacctttccgtggtttagcctgtatgcaaaagaagataccgttctgggaggtgaatatccgctggaaaaaggtgatgaactgatggttctgattccgca

gctgcatcgtgataaaaccatttggggtgatgatgtggaagaatttcgtccggaacgttttgaaaatccgagcgcaattccgcagcatgcctttaaaccg

tttggtaatggtcagcgtgcatgtattggtcagcagtttgcactgcatgaagccaccctggttctgggtatgatgctgaaacattttgattttgaggacc

acaccaactatgagctggatattaaaggcaccctgaccctgaaaccggaaggttttgttgttaaagccaaaagcaaaaaaatcccgctgggtggtattcc

gagcccgagcaccgaacagagcgcaaaaaaagttcgtaaaaaagccgaaaacgcccataatacaccgctgctggttctgtatggtagcaatatgggtaca

gccgaaggcaccgcacgtgatctggcagatattgcaatgagcaaaggttttgcaccgcaggttgcaaccctggatagccatgcaggtaatctgcctcgtg

aaggtgcagttctgattgttaccgcaagctataatggtcatccgcctgataatgcaaaacagtttgttgattggctggatcaggcaagcgcagatgaagt

taaaggtgttcgttatagcgtttttggttgcggtgataaaaactgggcaaccacctatcagaaagttccggcatttattgatgaaaccctggcagcaaaa

ggtgcagaaaatattgcagatcgtggtgaaaccgatgccagtgatgattttgaaggcacctatgaagaatggcgtgaacatatgtggtcagatgttgcag

cctattttaacctggatatcgaaaacagcgaggacaataaaagcaccctgagcctgcaatttgtggatagcgcagcagatatgccgctggcaaaaatgca

tggtgcatttagcaccaatgttgttgcaagcaaagaactgcaacagcctggtagcgcacgtagcacccgtcatctggaaattgaactgccgaaagaagca

agctatcaagagggtgatcatctgggtgttattccgcgtaattatgaaggtattgttaatcgtgttaccgcacgttttggtctggatgcaagccagcaga

ttcgtctggaagcagaagaagaaaaactggcacatctgccgctggccaaaaccgttagcgttgaagaactgctgcaatatgttgaactgcaagatccggt

tacccgtacccagctgcgtgcaatggcagcaaaaaccgtttgtccgcctcataaagttgaactggaagcactgctggagaaacaggcatataaagaacag

gttctggcaaaacgtctgaccatgctggaactgctggaaaaatatccggcatgcgaaatgaaattcagcgaatttattgcactgctgccgagtattcgtc

cgcgttattatagcattagcagcagtccgcgtgttgatgaaaaacaggccagcattaccgttagcgtggttagcggtgaagcatggtcaggttatggtga

atataaaggtattgccagcaattatctggccgaactgcaagaaggtgataccattacctgttttattagcacaccgcagagcgaatttaccctgccgaaa

gatcctgaaacaccgctgattatggttggtccgggtacaggtgttgcaccgtttcgtggttttgttcaggcacgtaaacaactgaaagaacagggtcaga

gcctgggtgaagcacatctgtattttggttgtcgtagtccgcatgaggattatctgtatcaagaagaactggaaaacgcacagagcgaaggtattattac

cctgcataccgcatttagccgtatgccgaatcagccgaaaacatatgttcagcatgttatggaacaggatggcaaaaaactgattgaactgctggatcag

ggtgcccatttctatatttgtggtgatggtagccagatggcaccggcagttgaagcaaccctgatgaaaagctatgcagatgttcatcaggttagcgaag

cagatgcacgtctgtggctgcaacagctggaagaaaaaggtcgttatgcaaaagatgtttgggcaggttaataa

**J119303 forward primer:**

GCAT GGTCTC G TTGACATCAGGAAAATTTTTCTGTATAATGTG

BSAI 1bp 2Omer biobrick suffix

spacer

**J119303 reverse primer:**

GCAT GGTCTC A TTATTAACCTGCCCAAACATCTTTTGCA

BSAI 1bp 20mer of ecdM8

spacer