

iGEM2017 – Microbiology – BMB – SDU	
Project type: iGEM2017	Creation date: 2017.07.17
Project title: Biobrick Analysis	Written by: EG, SJ
Sub project: RelE-RelB	Performed by: EG, SJ

1. SOPs in use

iGEM2017_SOP19_v01_EG_Preparing_Eurofins sequencing_samples

2. Purpose

To analyse the created RelE-RelB system BioBrick and its components.

3. Overview

3.a Sequencing of created BioBricks

Date (YY.MM.DD)	SOPs	Persons	Experiments
17.07.17	SOP19	EG, SJ	Eurofin sequencing samples

4. Experiment history

4.a Sequencing of created BioBricks

Date (YY.MM.DD)	SOPs	Alterations to SOPs and remarks to experiments	
17.07.17	SOP19	Four samples with B52 (RelE) and B53 (RelB) were made using the VF2 and VR primer. Sample IDs:	
		B52 w/ VF2: FR11285638	B52 w/ VR: FR11285630
		B53 w/ VF2: FR11285622	B52 w/ VR: FR11285614
17.08.03	SOP19	Five samples with the LacI-regulated hybrid promoter with GFP (B81) and RelB (B84) respectively were made using the VF2 and VR primer.	
		B81 w/ VF2: FR11285616	B84 w/ VF2: FR11285613
		B81 w/ VF2: FR11285617	B84 w/ VR: FR11285615
		B81 w/ VR: FR11285618	

5. Results and conclusions

5.a Sequencing of created BioBricks

The RelB reverse sequencing FR11285614 was unsuccessful, but both RelB forward and both RelE were successful and a nucleotide alignment with the sequence from ecocyc showed 100% identity match.

6. Appendices

6.a Sequencing data

FR11285638	ATAGAATAGGCGTATCACGAGGCAGAATTTTCAGATAAAAAAAATCCT TAGCTTTTCGCTAAGGATGATTTCTGGAATTCGCGGCCGCTTCTAGAT GGCGTATTTTCTGGATTTTGACGAGCGGGCACTAAAGGAATGGCGA AAGCTGGGCTCGACGGTACGTGAACAGTTGAAAAAGAAGCTGGTTG AAGTACTTGAGTCACCCCGGATTGAAGCAAACAAGCTCCGTGGTAT GCCTGATTGTTACAAGATTAAGCTCCGGTCTTCAGGCTATCGCCTTG TATACCAGGTTATAGACGAGAAAGTTGTCGTTTTCTGTGATTTCTGTT GGGAAAAGAGAACGCTCGGAAGTATATAGCGAGGCGGTCAAACGC ATTCTCTAATAACTAGTAGCGGCCGCTGCAGTCCGGCAAAAAAG GGCAAGGTGTCACCACCCTGCCCTTTTTCTTTAAAACCGAAAAGATT ACTTCGCGTTATGCAGGCTTCCTCGCTCACTGACTCGCTGCGCTCG GTCGTTCCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTA ATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGT GAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGT TGCTTGGCGTTTTTCCACAGGCTCCGCCCCCTGACGAGCATCACA AAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATA AAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCT GTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTT CCGGGAAGCCGTGGCGCTTTCTCATAGCTCACGCTGAAGGATC
FR11285630	CGACCGAGCGCAACGAGTCAGTGAGCGAGGAAGCCTGCATAACGC GAAGTAATCTTTTCGGTTTTAAAGAAAAAGGGCAGGGTGGTGACAC CTTGCCCTTTTTTGCCGGACTGCAGCGGCCGCTACTAGTATTATTAG AGAATGCGTTTGACCGCCTCGCTATATACTTCCGAGCGTTCTCTTTT CCAACAGAAATCACGAAAACGACAACTTTCTCGTCTATAACCTGGT ATACAAGGCGATAGCCTGAAGACCGGAGCTTAATCTTGTAACAATCA GGCATACCACGGAGCTTGTTTGCTTCAATCCGGGGTGACTCAAGTA CTTCAACCAGCTTCTTTTTCAACTGTTACGTACCGTCGAGCCCAGC TTTTCGCCATTCTTTAGTGCCCGCTCGTCAAATCCAGAAAATACGC CATCTAGAAGCGGCCGCGAATTCCAGAAATCATCCTTAGCGAAAGC TAAGGATTTTTTTTATCTGAAATTCTGCCTCGTGATACGCCTATTTTT ATAGGTTAATGTCATGATAATAATGTTTTCTTAGACGTCAGGTGGCA CTCGAGTTGATCGGGCACGTAAGAGGTTCCAACTTTCACCATAATG AAATAAGATCACTACCGGGCGTATTTTTTGAGTTATCGAGATTTTCA GGAGCTAAGGAAGCTAAAATGGAGAAAAAAATCACTGGATATACCA CCGTTGATATATCCAATGGCATCGTAAAGAACATTTTGAGGCATTT CAGTCAGTTGCTCAATGTACCTATAACCAGACCGTTCAGCTGGATAT TACGGCCTTTTTAAAGACCGTAAAGAAAAATAAGCACAAAGTTTTATC CGGCCTTTATTACATTCTTGCCCGCCTGATGAATGCTCATCCGGAA TTTTCGTATGGCAATGAAAGACGGTGAGCTGGGGAAA
FR11285622	AAATAGGCGTATCACGAGGCAGAATTTTCAGATAAAAAAAATCCTTAG CTTTCGCTAAGGATGATTTCTGGAATTCGCGGCCGCTTCTAGATGG GTAGCATTAACCTGCGTATTGACGATGAACTTAAAGCGCGTTCTTAC

	GCCGCGCTTGAAAAAATGGGTGTAACCTCTGAAGCGCTTCGTC TCATGCTCGAGTATATCGCTGACAATGAACGCTTGCCGTTCAAACAG ACACTCCTGAGTGATGAAGATGCTGAACTTGTGGAGATAGTGAAAG AACGGCTTCGTAATCCTAAGCCAGTACGTGTGACGCTGGATGAACT CTAATAATACTAGTAGCGGCCGCTGCAGTCCGGCAAAAAAGGGCAA GGTGTCAACCACCTGCCCTTTTTCTTTAAAACCGAAAAGATTACTTC GCGTTATGCAGGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGT TCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACG GTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCA AAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTG GCGTTTTTCCACAGGCTCCGCCCCCCTGACGAGCATCACAAAATC GACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATA CCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCG ACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAA GCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGT GTAGGTCGTTGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTT CAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCA ACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAA CAGGATTAACAAAG
FR11285614	CCGCAACTGGGCCCA