

## Additional file\_8: Primer used

EXPERIMENT	NAME	SEQUENCE	FEATURES
<b>Targeted mutagenesis</b>	IBS $cuaD$ _887	AAAAAAGCTTATAATTATCCTTAGGTATCATCTCAGTGCGCCCAGATAGGGTG	
	EBS1 $dcaD$ _887	CAGATTGTACAAATGTGGTGATAACAGATAAGTCATCTCAACTAACTTACCTTTCTTTGT	
	EBS2 $cuaD$ _887	TGAACGCAAGTTTCTAATTTTCGATTATACCTCGATAGAGGAAAGTGTCT	
	EBS universal	CGAAATTAGAACTTGCCTTCAGTAAAC	
	IBS $cuaA$ _89	AAAAAAGCTTATAATTATCCTTAGATGCCGAAGCAGTGCGCCCAGATAGGGTG	
	EBS1 $dcaA$ _89	CAGATTGTACAAATGTGGTGATAACAGATAAGTCGAAGCAGTTAACTTACCTTTCTTTGT	
	EBS2 $cuaA$ _89	TGAACGCAAGTTTCTAATTTTCGATTGCATCTCGATAGAGGAAAGTGTCT	
	IBS $cuaA$ _786	AAAAAAGCTTATAATTATCCTTAGCCAGCCTTCCAGTGCGCCCAGATAGGGTG	
	EBS1 $dcaA$ _786	CAGATTGTACAAATGTGGTGATAACAGATAAGTCCTTCCACATAACTTACCTTTCTTTGT	
	EBS2 $cuaA$ _786	TGAACGCAAGTTTCTAATTTTCGATTCTGGCTCGATAGAGGAAAGTGTCT	
<b>Control of the mutation</b>	CuaD_734Dir	ATATGAAGGAACCTTCAACAAGATGC	
	CuaD_1187Rev	ACATGATCAGGGATTGCACAC	
<b>Production in <i>E. coli</i></b>	CuaDNdeID	AATT <u>CATATG</u> CACCACCACCACCACCACTGCAGCAGTGACAATTCG	NdeI is underlined, ATG boldface type
	CuaDXhoIR	AATT <u>CTCGAGT</u> TACTGCAATTTGTCTAATGCTTTTTCC	XhoI is underlined
	CuaANdeID	AATT <u>CATATG</u> CACCACCACCACCACCACTGTGGAAACACAGAGTCAGG	NdeI is underlined, ATG boldface type
	CuaAXhoIR,	AATT <u>CTCGAGT</u> TACTTCAATTCAGGAACATTTTTCTTC	XhoI is underlined
	2109Ncof	TTTTTT <u>CCATGGT</u> GAAATACGGTTTCTTTGATGATA	NcoI is underlined, ATG boldface type
	2109Xhor	TTTTTT <u>CTCGAGT</u> CCCATTTACTTTCGACCTGATG	XhoI is underlined
<b>Fluorescence studies</b>	pBadRegFLEcoD	TTAC <u>GAAATC</u> ACCATGTACAAGGTTCTAATAATTGATG	EcoRI is underlined
	pBadRegPstR	ATAT <u>CTGCAGT</u> TAATAACAACACTATCTCTGTATTCCG	PstI is underlined
	IG1gfpXhoID	AAGC <u>CTCGAGC</u> ACCTGTAAGTACAACCTCATGTTATATC	XhoI is underlined
	IG1gfpBamR	AATAGGATCCTTACGCATAAGCCCTCCTG	BamHI is underlined
	IG2gfpXhoD	AAGG <u>CTCGAGG</u> GACCGCTGTCAGAAG	XhoI is underlined
	IG2gfpBamR	AATAGGATCC CACTGCTGCAAGAACTG	BamHI is underlined
	IG3gfpXhoD	AAGG <u>CTCGAGA</u> AAGGCAAAAGAACTTCTAAAGG	XhoI is underlined
	IG3gfpBamR	AATAGGATCCATTTCCAGTACCATAACGCC	BamHI is underlined
	IG4gfpXhoD	AAGG <u>CTCGAGAG</u> CAAAACACTATGGTGCCAG	XhoI is underlined
	IG4gfpBamR	AATCGGATCCAGGATAAGGTGTTTTAGGTGTTG	BamHI is underlined

EXPERIMENT	NAME	SEQUENCE	FEATURES
<b>Complementation studies</b>	2112BamDir	ATTAAGGATCCAGAATTTAAAAGGAGGGATTAAAATGTTTAAAAAGGTAATAGCTTCTG	BamHI is underlined
	2110NarRev	CCTTGGCGCCTTAGCCTTTTACAGACCCTGC	NarI is underlined
	2109NarRev	AATTGGCGCCTTATCCATTATTACTTCGACCTG	NarI is underlined
	2109NarDir	TTAAGGCGCCAGAATTTAAAAGGAGGGATTAAATTGAAATACGGTTTCTTTGATGATAC	NarI is underlined
	2109BamDir	TTAAGGATCCAGAATTTAAAAGGAGGGATTAAATTGAAATACGGTTTCTTTGATGATAC	BamHI is underlined
<b>Transcriptional links</b>	2107-E-RT-up	GGTACCGGACTCGGATTGT	
	2108-E-RT-up	GAAGGGCATCTAATGCCAGA	
	2108-S-RT-do	TCTGGCATTAGATGCCCTTC	
	2109-E-RT-up	TTATTAGCAATCCCGAACACG	
	2109-S-RT-do	TCTACGTAAACGTGCGTCCTT	
	2110-E-RT-up	GCCAGAATAGCAGCATTGGT	
	2110-S-RT-do	TGCTGTTGAGAGGACAGCAA	
	2111-E-RT-up	TGTATGAGGCTGCACGTGTT	
	2111-S-RT-do	CGTCCATTCATTAAGGCTCA	
	2112-E-RT-up	GTGGGGATACATTGCTGACC	
	2112-S-RT-do	TGAGCTTGATGCAGAAGCAG	
	2113-E-RT-up	CGAAGTTGCAGAGAAGGTTG	
	2113-S-RT-do	ACCATCCATTCCAGGCATAC	
	2114-E-RT-up	CCGTTAATCGAAAATGCTGTC	
	2114-S-RT-do	TCGTTTGAGTACGAAAGGGATT	
	2115-E-RT-up	GGGGTACACCCAATAGCAAA	
2115-S-RT-do	TTTGCTGTTACGAGCATTTGA		
2116-E-RT-up	TCAGGAAGCCAGTGAAAAGG		
<b>qPCR</b>	Rpodir	AAACATAGTCAAGAAAGTAGAAAAG	
	Rporev	CTATACTAACAACCAGCCTTAAG	
	2109F	ATGAGTGCAGGCATGGTTTG	
	2109R	ACCGAGTTCTCAACTTCAACC	
	2110F	CACAGTTCAAGGCGTTCCAA	
	2110R	GCTCTGTACAACGCATCCAG	
	2111F	TAGCTGCAGGTTTGTGTGG	
	2111R	CAACACGTGCAGCCTCATAC	

<b>EXPERIMENT</b>	<b>NAME</b>	<b>SEQUENCE</b>	<b>FEATURES</b>
<b>qPCR</b>	2112F	AGGAACCCTCTTTGACATGGA	
	2112R	CATTCTGGAAGGCAGCGATT	
	2113F	GCGGGGCATATGATTTCCTC	
	2113R	AGTCGTTTTCCATTACAACCAGA	
	2114F	CGGAACTCAGGTCAGTGGTA	
	2114R	CCTCGGATTCCAGTCCCTTT	
	2115F	TCCGTCCATGGGAAATGGAA	
	2115R	GCTGAATAGGCCGGATTCTT	
	2116F	ATCAACCAGTCGGTCAGGA	
	2116R	ACCTACACCCGGTTCTCCTA	