

S4 Table. Primers used in this study.

Primer	Description	Sequence (5' to 3')
JG9	ChiA-FL F	GACGACGACAAGATGAATACCTCTTTAAAACCCCTCAATTGCC
JG10	ChiA-FL R	GAGGAGAAGCCCGGTTACTCACAAACACCATTAATAGCACAAATTTTTC
JG9	ChiA-NT F	GACGACGACAAGATGAATACCTCTTTAAAACCCCTCAATTGCC
JG11	ChiA-NT R	GAGGAGAAGCCCGGTTAAGATAAAGTGATGTTTACTGTTGCATTTTC
JG9	ChiA-N1 F	GACGACGACAAGATGAATACCTCTTTAAAACCCCTCAATTGCC
JG12	ChiA-N1 R	GAGGAGAAGCCCGGTTAGATGCTTCCTGATTCAACCGTTG
JG13	ChiA-N2 F	GACGACGACAAGATGGGAAGCATCCAATTAATCAATGCTGC
JG14	ChiA-N2 R	GAGGAGAAGCCCGGTTAATCGTTATATTGAATTGCAGGAGTTGAG
JG15	ChiA-N3 F	GACGACGACAAGATGGGGAGTAGTTACCAATTCTCAACTC
JG11	ChiA-N3 R	GAGGAGAAGCCCGGTTAAGATAAAGTGATGTTTACTGTTGCATTTTC
JG16	ChiA-CTD F	GACGACGACAAGATGGTAACCGCTGCAAAGGGC
JG10	ChiA-CTD R	GAGGAGAAGCCCGGTTACTCACAAACACCATTAATAGCACAAATTTTTC
JG17	ChiA-CTD E543M mutant F	AGGAGTTAATTTCTCAATATGGTTTTGATGGGTTTGATACAGATATTATGCAT GGTATTAACGCTAGCGG
JG18	ChiA-CTD E543M mutant R	CCGCTAGCGTTAATACCATGCATAATATCTGTATCAAACCCATCAAAACCATA TTGAGAAATTAACCTCT
JG19	NttE F	GACGACGACAAGATGAATTCGGATGACAATGCTGATGGC
JG20	NttE R	GAGGAGAAGCCCGGTTACAAACAATGTTTATTAGGATTTCTCTTCATAC
PC1	SsIE F	AGGAGATATACCATGAGCTACCCGCTCAACTATATG
PC2	SsIE R	GTGATGGTGATGTTTCTCGACAGACATCTTATGC