

**Table S1.** Oligonucleotides and primers used in this study

Oligonucleotide/primer	Sequence (5'-3')
Library-F	<u>CCGGAATTC</u> GGCGCGCCN <sub>(18)</sub> CCGGGTGTACACGCGTTTGAAGAC GAAAGGGCCTCGTGATACGCCTAG <u>GCGGCCGC</u> ATACTACTA
Library-R	TAGTAGTATGCGGC
RegX3-F	<u>GGGTACC</u> ATGACACGCATTCTTA
RegX3-R	GCTCTAGAAAAGGCGACCCGAAG
RegX3H-F	CATGCCATGGCAGCATTCTTATCG
RegX3H-R	CCCAAGCTTAATGATGATGATGATGATGCTCCGCGGGAGTATC GATC
EMSA pstS-F	<b>AGTGTT</b> CATCTTCTGTTTACTGATTC <b>GTTTT</b> GGGCCCTTGAAA CCACCAATACGCTTGT <b>AGTTGTC</b> AT
EMSA pstS-R	AT <b>GACA</b> ACTACAAGCGTATTGGTGGTTTCAAGGGCCCAAA <b>ACCG</b> AAATCAGTAAACAGAAGAT <b>GAACACT</b>
PstS-F	CATGCCATGGAGAAGAATCCTCG
PstS-R	<u>GGGTACCT</u> CACTTGGTCTTGATGG

Restriction enzyme cutting sites are underlined: GAATTC-EcoRI, GCGGCCGC-NotI, GGTACC-KpnI, TCTAGA-XbaI, CCATGG-NcoI, AAGCTT-HindIII.

Boldfaces indicate the predicted binding sites of RegX3.