

Table S1. Primers

Organism, Target gene	Primer type	Sequence ^a
Expression in trans		
<i>B. uniformis</i> CL03T00C23, HMPREF1072_01167	Forward	5'-AAATGGATCCGTCCTTTCAAAGGCCAAACTAAAT-3'
	Reverse	5'-AATGGGATCCTGTTTCTGTTATGTCTTGGAGAATG-3'
<i>B. uniformis</i> 8492, BACUNI_00969	Forward	5'-TTCGGGATCCCGGTTGTGGTAATTGTCATAGCTT-3'
	Reverse	5'-TTACGGATCCGCTATAACCCCTGCTTTATTTCATT-3'
<i>B. fragilis</i> CL05T12C13, HMPREF1080_01555	Forward	5'-AGGCGGATCCATTAAGAAACCAATAAACCACGGA-3'
	Reverse	5'-ATCGGGTACCTACCAACAGCCCCAAAGTTGCTA-3'
<i>B. fragilis</i> CL05T12C13, HMPREF1080_01556	Forward	5'-AATAGGATCCCTCTTCAAGGGGCAGAAGATGATAA-3'
	Reverse	5'-GAAAGGTACCCGGGGATTTCTATACACACAAAAG-3'
<i>B. fragilis</i> 9343, Bf9343_1563	Forward	5'-GGTAGGATCCTCTTCAAGGGGTAGAAGATGATAATGG-3'
	Reverse	5'-GAAAGGTACCCGGGGATTTCTATACACACAAAAG-3'
<i>B. fragilis</i> 638R, Bf638R_1645	Forward	5'-GTGTGGATCCCGGTGGTTCGAAGATAAGAAAATTGTG-3'
	Reverse	5'-TTTAGGTACCACTGCATCGTCCTTCAGGGATTT-3'
His-BSAP-2		
<i>B. uniformis</i> CL03T00C23, HMPREF1072_01167	Forward	5'-TTTGCATATGACCAACACTTTTGACGAGCAGTTTG-3'
	Reverse	5'-AATGGGATCCTGTTTCTGTTATGTCTTGGAGAATG-3'
Deletion mutants		
<i>B. uniformis</i> CL03T00C23, ΔHMPREF1072_01165- 01167	Upstream flank 5'	5'-CGAAGGATCCTAGTCATAACAGCCTAGCACAAGC-3'
	Upstream flank 3'	5'-TTAGACGCGTCAAGCAATGAACAGAAGTACGATT-3'
	Downstream flank 5'	5'-TAAACGCGTCCGTAGAGTATGCCAAAGCTAAAT-3'
	Downstream flank 3'	5'-CGTTGGATCCTGTGAACAATCAGGATAAAATTGC-3'
<i>B. uniformis</i> CL03T00C23, ΔHMPREF1072_01167	Upstream flank 5'	5'-TTCAGGATCCCTAAATGCCACATTCTCTACTT-3'
	Upstream flank 3'	5'-AAAACCATGGCCATTGTAATGATGGGAATAAAA-3'
	Downstream flank 5'	5'-TAAACCATGGCCGTAGAGTATGCCAAAGCTAAAT-3'
	Downstream flank 3'	5'-GCTGGGATCCTATAATTCCTTCAGATGCTGGTCG-3'
<i>B. uniformis</i> 8492, ΔBACUNI_00969	Upstream flank 5'	5'-GATAGGATCCCTGGTTGATGAGGTCATAGCATAG-3'
	Upstream flank 3'	5'-CTCTACGCGTTCAGAGGTAGTGTCTCAGTGTCTC-3'
	Downstream flank 5'	5'-GGCAACGCGTAGGACATTCTTCAAATCTAAACGG-3'
	Downstream flank 3'	5'-GCAGGGATCCCTGAATAATATCAAATCCACGACG-3'
<i>B. fragilis</i> 9343, ΔBf9343_1563	Upstream flank 5'	5'-CTGAGGATCCTCTTTGCCTAAACCTGAAGAAGTC-3'
	Upstream flank 3'	5'-TAATGCGGCCGCAGCCCCAAAGTTGCTAAAGTAAT-3'
	Downstream flank 5'	5'-TGCCGCGGCCGCACAACCAAAGTGACTAATACCCGT-3'
	Downstream flank 3'	5'-TGAGGGATCCCCGGATGAAAGATGTAGAAGAGT-3'
<i>B. fragilis</i> 638R,	Upstream flank 5'	5'-CGATGGATCCTTGTCAGAAATTTTTAAAGACGAT-3'

ΔBf638R_1645-1646	Upstream flank 3'	5'-ATGC <u>ACGCGI</u> TGCAGTCCATAAAAGAACTAATGC-3'
	Downstream flank 5'	5'-AGTA <u>ACGCGI</u> TTGGGGCTAATGGAAATAGAAGTA-3'
	Downstream flank 3'	5'-GGGAG <u>GATCC</u> ATTGAACAAGTATTTGAAGGGGA-3'

^aRestriction sites in primer sequences are underlined.