

Table S1: List of primers used. Restriction sites are underlined. Mutated codons are in bold.

Primer name	Primer sequence (5' → 3')	Purpose
BACOVA_02651_pET28_fw	AAAAACATATGGATAGAGCACCGGAAGGAAAC	SGBP-A (28-546) expression
BACOVA_02651_pET28_rev	AAAAACTCGAGTTATTCGTTAAATGTATAAGGAACC	
BACOVA_02651_pEтите_fw	CATCATCACCACCATCACGAGAACCTGTA CTTC CAGGGCGTAGAC GCTACATTTTATACT	SGBP-A (36-546) expression
BACOVA_02651_pEтите_rev	GTGGCGGCCGCTCTATTATTC GTTAAATGTATAAGG	
BACOVA_02650_fw	AAAAACATATGGATGCTATACCGGTAATTCATT ATATAAGAG	SGBP-B (34-489); SGBP-B: domain A (for); domains CD (rev) expression
BACOVA_02650_rev	AAAAACTCGAGTTATTTCTCACGATGCGG	
BACOVA_02650_S133rev	AAAAACTCGAGTTACGAAAGCACGTGCATATTG TAAGC	SGBP-B domain A expression
BACOVA_02650_P134for	AAAAACATATGCCTGCACCTTACATCACCCGTA TTTCC	SGBP-B domain B expression
BACOVA_02650_G229rev	AAAAACTCGAGTTAACCATTCTTCTTAAACTCTG TAACC	
BACOVA_02650_P230for	AAAAACATATGCCAAAACCGTTGTTACTGCTG TC	SGBP-B domains CD expression
BACOVA_02650_Y363Afor ¹	GGAACAGTGAGTGCATCCAAT GCG TGGTGGAA ACAAAGTTATTCC	SGBP-B Y363A mutagenesis
BACOVA_02650_Y363Arev ¹	GGAATAACTTTGTTTCCACC CGC ATTGGATGC ACTCACTGT	
BACOVA_02650_W364Afor ¹	ACAGTGAGTGCATCCAATTAT GCA TGGAAACAA AGTTATTCCAAC	SGBP-B W364A mutagenesis
BACOVA_02650_W364Arev ¹	GTTGGAATAACTTTGTTTCCAT GC AATAATTGGA TGCACTCACTGT	
BACOVA_02650_F414Afor ¹	CAAATCGCAATGTGTGAAAAC GCG GATGCTGC ATTAAATGGGTAT	SGBP-B F414A mutagenesis
BACOVA_02650_F414Arev ¹	ATACCCATTTAATGCAGCATC CGC GTTTTTCA CATTGCGATTTG	
BACOVA_02651_W82Afor ²	GATATGTACAGTCCC GCA AATTATCCGCAGTTT G	SGBP-A W82A mutagenesis
BACOVA_02651_W283Afor ²	GTGCCGTTGGGGGAG GC ATATGAATGTAATAC C	SGBP-A W283A mutagenesis
BACOVA_02651_W306Afor ²	CGGGTGGTGTCAATTGT GCA AGTAGCTATAAT GGAAG	SGBP-A W306A mutagenesis
BACOVA_02651_1000 up	GGTGTATTTCCTCACCGTGGG	For allelic exchange

BACOVA_02651 1000 down	CCAAACATGACTACCGATTCC	(deletion and complementation) of Bacova_02651 (SGBP-A) using pExchange for <i>B. ovatus</i> mutagenesis
BACOVA_02651 Not I 750 up	CCGGCGGCCGCCATGTTTACGAAGGAGGATGAC	
BACOVA_02651 BamHI 750 down	CCGGGATCCCCTACGACTGGCATTGTGGAAC	
BACOVA_02651 middle rev	CATAAATTCTTCTGATTTATTCGTT	
BACOVA_02651 middle for	AACGAATAAATCAGAAGAATTTATG	
BACOVA_02650 1000 up	GGGATATTGGCAAAGGTTTATC	For allelic exchange (deletion and complementation) of Bacova_02650 (SGBP-B) using pExchange for <i>B. ovatus</i> mutagenesis
BACOVA_02650 1000 down	GCATAAGCCTTCTCCGCTGCC	
BACOVA_02650 Not I 750 up	CCGGCGGCCGCCTCGACCGAGGTGACGGGTGG	
BACOVA_02650 BamHI 750 down	CCGGGATCCGTTAAATTGCATTTTCGTCCAG	
BACOVA_02650 middle rev	CTATTTCAATCAAATCATTATTTTCT	
BACOVA_02650 middle for	AGAAAATAATGATTTGAATGAAATAG	For deletion of Bacova_02649 (GH9) in Δ SGBP-B <i>B. ovatus</i> .
BACOVA_02649 750up Not for	CCGGCGGCCGCTTCTATCGTCTTTCCTCCCG	
BACOVA_02649 750up rev	CTCCTACTTTTTTAGTAAGTGTTCGGTAGGCTCTTTTTCTGGC	
BACOVA_02649 750down for	GCCAAGAAAAGAGCCTACGGAACAGTTACTA AAAAAGTAGGAG	
BACOVA_02649 750down Bam Rev	CCGGGATCCGTTGGCAGATACGTTGCGTAGGA	
BACOVA_02649 middle for	GACTGCTGCAAAATCTAAAGCGGC	
BACOVA_02649 middle rev	GCCGCTTTAGATTTTGCAGCAGTC	

¹ Site-directed mutagenesis via a two-primer reaction

² Site-directed mutagenesis via a one-primer reaction