

1 **Supplemental data**

2 **Selection, identification and application of DNA aptamers for the detection of *Bifidobacterium***

3 *breve*

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Table S1 Random sequence of six families of the 33 sequences (40nt)

Family	Name	Sequence (5'→3')	
I	BB16p	CTCCCAGGCCGTTGGGGCGTTGCCTGCGTGCACCCGGGGC	
	BB17p	CTCCCAGGCCGTTGGGGCGTTGCCTGCGTGCACCCGGGGC	
	BB19p	CTCCCAGGCCGTTGGGGCGTTGCCTGCGTGCACCCGGGGC	
	BB21p	CTCCCAGGCCGTTGGGGCGTTGCCTGCGTGCACCCGGGGC	
	BB24p	CTCCCAGGCCGTTGGGGCGTTGCCTGCGTGCACCCGGGGC	
	BB26p	CTCCCAGGCCGTTGGGGCGTTGCCTGCGTGCACCCGGGGC	
	BB29p	CTCCCAGGCCGTTGGGGCGTTGCCTGCGTGCACCCGGGGC	
	BB14p	CTCCCGGGCCGTGGGGCGTTGCCTGCGTGGACCCGGGGG	
	BB18p	CCGCCTGCGAGGTAGTCGCCTCCCAGGTGTGTTTCAGGGGG	
	BB3p	CCGGGTCCGTTAGTATGCCTTCCACTATGTCTCCCTGGG	
	BB15p	CCGACTCAACGAGTTTCCTTATACCTCCAGCGTTGCCGGG	
	II	BB10p	GGCCCCCTGCCTGCCAAAAAGGTGTTGCCAGGTTGGCGGC
		BB11p	GGCCCCCTGCCTGCCAAAAAGGTGTTGCCAGGTTGGCGGC
		BB13p	GGCCCCCTGCCTGCCAAAAAGGTGTTGCCAGGTTGGCGGC
BB23p		TGCCCATCACCAAGAAAAAGAGCGTACCACGTGGTCTGGG	
BB25p		GCGGCCTGCCTGGTTGGAACAGCCTGCCAAGCTTAGCCGG	
III	BB2p	CCGGGCAGCGGTCAATGCCGCACCTTCCATATGATCGGGG	
	BB30p	CCGGGCAGCGGTCAATGCCGCACCTTCCATATGATCGGGG	
	BB6p	CGGATGCAGGGCCCGAGAGTGCCTCCCTTATGGATGTGAC	
	BB8p	CCGCTGCCGGGTCCGGTGACCTTCCAGTGTGCCGTCGTGTC	
	BB28p	TGCCTGCCAAGTTGCCGGCCTGCCAGGTACACCGACCTGC	
	BB7p	GCCTGCCAGGTATCGAGGCCTGCCAGGGTGTACTTGGTC	
	BB31p	CGCCTACAAGGTCGTGCCTTCTAGGTAATATCTCATGGGC	
	BB27p	GCCGGCCTCGATCCCAGGTCCCAGACCTGCGTTTGGGGGG	
IV	BB20p	CCGGGTTCGCAACCTCCCTTATGCCTGGTGATGCCGGGGTA	
	BB33p	GCACATCGCCAGGGACCTAAGGCCTGCCGTTGCGCCTCGG	
	BB12p	CCTCCCAAGACCACCCTGCAGGGCTTCTGCTCTACTGCGG	
V	BB9p	GCCAGATGCAAGGTGCATACCTTCCCTTATGCTGTGTCGGG	
	BB32p	CCGACTGCCAAGCTCAGAGCCTGCCTAGGGGTGCACAGGA	
	BB5p	TCGCATGCAGGGTGCTCGGACCTCCCTTGTGACTCACGGC	
	BB4p	GCGACAGCTGGTTCATTTACCTGATTCCCCTTATGTTTCGG	
VI	BB1p	TCCGCGGCCTTCTAGCGTTAACTTGCAGGGTATGCGTGA	
	BB22p	GCCGTGATTGGTGATGCGTCACCTTGAGCGTTGCCTTGGG	