

**S1 Table.** Species-specific 16S rRNA probes for fluorescence *in situ* hybridization

---

2

3Probe	Target species	Probe sequence [5'-3']	Reference	Label
5MIT588	<i>S. oralis</i>	5' - ACA GCC TTT AAC TTC AGA CTT ATC TAA- 3'	[31]	ALEXA Fluor®405
6				
7ANA103	<i>A. naeslundii</i>	5' - CGG TTA TCC AGA AGA AGG GG- 3'	[31]	ALEXA Fluor®488
8				
9VEI217	<i>V. dispar</i>	5' - AAT CCC CTC CTT CAG TGA- 3'	[52]	ALEXA Fluor®568
10				
11POGI	<i>P. gingivalis</i>	5' - CAA TAC TCG TAT CGC CCG TTA TTC- 3'	[53]	ALEXA Fluor®647

13

14

**1S2 Table.** Species-specific primer pairs used in qRT-PCR to identify the four different bacterial species within the  
2biofilm

---

3

4Bacteria	Gene	Primer pairs	Annealing temp (°C)	Product size (bp)	Reference
5 <i>S. oralis</i>	<i>gtfR</i>	F: 5' - TCC CGG TCA GCA AAC TCC AGC C - 3'	58	374	[54]
6		R: 5' - GCA ACC TTT GGA TTT GCA AC - 3'			
7 <i>A. naeslundii</i>	<i>gyrA</i>	F: 5' - CAA CGT CGA GGA GAT CCA GG - 3'	58	215	this study
8		R: 5' - TAT TGA GGA CCA CCT TGG CG - 3'			
9 <i>V. dispar</i>	<i>16S rRNA</i>	F: 5' - TGG AGC AAA CCC GAG AAA CA - 3'	58	104	this study
10		R: 5' - TTC ACC GCA GTA TGC TGA CC - 3'			
11 <i>P. gingivalis</i>	<i>16S rRNA</i>	F: 5' - AGG CAG CTT GCC ATA CTG CG - 3'	56	405	[55]
12		R: 5' - ACT GTT AGC AAC TAC CGA TGT - 3'			

1**S3 Table.** Genome size, corresponding accession number and the calculated genome weight used for  
2quantification of the individual species

---

3

4 <b>Organism</b>	5 <b>Genome size (bp)</b>	6 <b>Accession number</b>	7 <b>Genome weight (ng)</b>
-------------------	---------------------------	---------------------------	-----------------------------

8

9 <i>S. oralis</i>	1.96E+06	NC_015291.1	2.15E-06
--------------------	----------	-------------	----------

10

11 <i>A. naeslundii</i>	3.04E+06	ALJK00000000.1	3.33E-06
-------------------------	----------	----------------	----------

12

13 <i>V. dispar</i>	2.11E+06	NZ_ACIK00000000.2	2.32E-06
---------------------	----------	-------------------	----------

14

15 <i>P. gingivalis</i>	2.34E+06	NC_015571.1	2.57E-06
-------------------------	----------	-------------	----------

16