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	Additive: DMSO	0	%		
60 uL	1X_65ul 1.5ul Mg+	1ul	Х	Master Mix (no primers)	8 x
Amount	Compound		Amount	Compound	
41.4 _{uL}	ddH ₂ O	0.69	331 _{uL}	ddH ₂ O	331.2
0 _{uL}	DMSO 100%	0	0 uL	DMSO 100%	0
6 uL	10x PCR buffer	0.1	48 uL	10x PCR buffer	48
4.8 uL	dNTPs (2.5mM each)	0.08	38.4 uL	dNTPs (2.5mM each)	38.4
3.6 _{uL}	MgCl2	0.06	28.8 uL	MgCl2	28.8
1.2 _{uL}	Pf, 5µM	0.02	9.6 uL	Pf, 5μM	446.4
1.2 _{uL}	Pr, 5 μM	0.02	9.6 uL	Pr, 5 μM]
1.2 _{uL}	DNA template	0.02	9.6 _{uL}	DNA template]
0.6 _{uL}	Polymerase	0.01	4.8 uL	Polymerase	
60 uL	Total	1	480 uL	Total mm per25 ul:	55.8

Here are a recipe for master mix and cycling conditions for 18S:

Reaction mixture with Pfu polymerase per 30ul reaction:							
water 22.23ul							
buffer 3ul	1a light colony pcr from phototrophs 16s						
dNTPs 0.2ul of a 25uM solution	1b light colony pcr from phototrophs 18s						
forward primer 1.56ul of a 10uM solution	2a dark colony pcr from phototrophs 16s						
reverse primer 1.56ul of a 10uM solution	2b dark colony pcr from phototrophs 16s						
Pfu polymerase 0.25ul	3a crp2-2 plate 16s						
template DNA 1ul	3b crp2-2 plate 18s						
	4a bl2 16s						
PCR conditions:	4b bl2 18s						

95C for 5 minutes,10 cycles of touchdown PCR: 95C for 30s, 60C for 30s (decreasing at 0.5C/cycle), and 72C for 30s, followed by 30 cycles: 95C for 30s, 55C for 30s, and 72C for for 5 minutes. 30s, and 72C for 5 minutes.

	Cheers,	0	%			
40 uL	Angela.	1ul	Х		Master Mix (no primers)	0 x
Amount	Compound		Amo	<u>ount</u>	Compound	
27.6 uL	ddH_2O	0.69	() uL	ddH ₂ O	0
0 uL	DMSO 100%	0	() uL	DMSO 100%	0
4 uL	10x PCR buffer	0.1	(<mark>)</mark> uL	10x PCR buffer	0
3.2 _{uL}	dNTPs (2.5mM each)	0.08	() uL	dNTPs (2.5mM each)	0
2.4 uL	MgCl2	0.06	(<mark>)</mark> uL	MgCl2	0
0.8 uL	Pf, 5μM	0.02	() uL	Pf, 5μM	0
0.8 uL	Pr, 5 μM	0.02	() uL	Pr, 5 μM	
0.8 uL	DNA template	0.02	(<mark>)</mark> uL	DNA template	
0.4 uL	Polymerase	0.01	(<mark>)</mark> uL	Polymerase	
40 uL	Total	1	(0 uL	Total mm per25 ul:	0 2.8