2025.5.12 80°C samples re-seq with Azenta **Amplicon-EZ**

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PCR amplification of the amplicon for Amplicon-EZ:

Syste	System-SL5				
	Component	Vol (ul)	7x (ul)	Note	
1	5x Phusion HF buff	40	280		
2	10mM dNTP	4	28		
3	100uM F	1	7	COVID_6-28_F_56C	
4	100uM R	1	7	CMV-5UTR_SHAPE_Rv	
5	Phusion Pol	2	14		
6	cDNA+water	152/EA	152/EA	5/9/25: prepared 200ng DNA in 152ul/EA	
7	Total	200	200/EA		

Program-SL5				
	A	В	С	
1	98°C	30s		
2	98°C	10s		
3	62°C	10s		
4	72°C	15s	35x	
5	72°C	5min		
6	4°C	hold		

Syste	System-SMN2				
	Component	Vol (ul)	3.5x (ul)	Note	
1	5x Phusion HF buff	40	140		
2	10mM dNTP	4	14		
3	2uM F+R	50	175	"148 PCR primer" (labeled on tube, from Zhichao); SMN2-GT-PCR-FW (GT2) + SMN1/2-GT-PCR-Rv (on map)	
4	Water	103	360.5		
5	Phusion Pol	2	7		
6	cDNA	1	1/EA		
7	Total	200	50/EA		

Program-SMN2				
	A	В	С	
1	98°C	30s		
2	98°C	10s		
3	58°C	10s		
4	72°C	15s	35x	
5	72°C	5min		
6	4°C	hold		

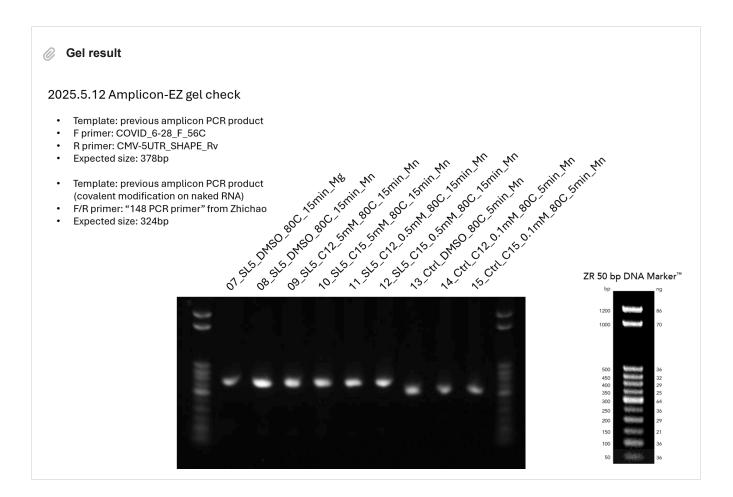
PCR purification:

- 1000ul DNA Binding Buffer to 200ul PCR product (5:1)
- Transfer 600ul to Zymo-Spin Column, 10000xg 30s, repeat
- Add 500 ul DNA Wash Buffer, 10000xg 30s
- Repeat washing step
- Spin at full speed 2min
- Elute = 30ul water
- Nanodrop & Qubit:

Quan	ntification						
	#	Nanodrop (ng/ul)	260/280	Qubit (ng/ul)	500ng (ul)	to 25ul	
1	7	156	1.89	97.6	5.1	19.9	
2	8	172.5	1.9	98.2	5.1	19.9	
3	9	167.4	1.88	104.0	4.8	20.2	
4	10	174.7	1.86	105.0	4.8	20.2	
5	11	165.3	1.9	104.0	4.8	20.2	
6	12	160.8	1.91	114.0	4.4	20.6	
7	13	162.9	1.87	96.4	5.2	19.8	
8	14	165.8	1.88	99.2	5.0	20.0	
9	15	150	1.86	108.0	4.6	20.4	

Size verification:

- Gel: 1% agarose in 1x TBE, 1:20000 APExBIO Safe DNA Gel Stain
- Ladder: Zymo ZR 50bp DNA Marker
- Loading dye: Invitrogen 10x Blue Juice (200ng sample or 1ug 50bp Marker)
- Amplicon size=378bp/324bp
- Gel running: 100v 30min



Submit Amplicon-EZ order:

20250512 Amplicon EZ HC.pdf