

# bcar-l-erg20-24-03-09 Report

Quantitative PCR - DNA Binding Dye Including Standard Melt

Includes: Plate Setup, Thermal Profile, Raw Data Plots, Analysis Criteria, Amplification Plots, Standard Curve Plots, Melt Raw Derivative Curve, Consolidated Plots, Tabular Results, Experiment Notes

Instrument Name: New\_Instrument

Firmware Version:: 3.1.1606.1402

Software Version: Agilent Aria Software v2.0

Last Modified Date: 10 Mar 2024 23:11:48

Instrument Type: AriaMx

Serial Number: MY16485260

Run By: Guest

Run Start Date: 10 Mar 2024 21:22:52

Elapsed Time: 1 : 48 : 41

Report Generated: 09 Mar 2024

Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 10 Mar 2024 21:22:52

### Plate Setup

	1	2	3	4	5	6	7	8	9	10	11	12
A	Unknown 1	Unknown 1	Unknown 1	Unknown 7	Unknown 7	Unknown 7	Unknown 13	Unknown 13	Unknown 13	Standard S	Standard S	Standard S
B	Unknown 2	Unknown 2	Unknown 2	Unknown 8	Unknown 8	Unknown 8	Unknown 14	Unknown 14	Unknown 14	Standard S	Standard S	Standard S
C	Unknown 3	Unknown 3	Unknown 3	Unknown 9	Unknown 9	Unknown 9	Unknown 15	Unknown 15	Unknown 15	Standard S	Standard S	Standard S
D	Unknown 4	Unknown 4	Unknown 4	Unknown 10	Unknown 10	Unknown 10	Unknown 16	Unknown 16	Unknown 16	Standard S	Standard S	Standard S
E	Unknown 5	Unknown 5	Unknown 5	Unknown 11	Unknown 11	Unknown 11	Unknown 17	Unknown 17	Unknown 17	Standard S	Standard S	Standard S
F	Unknown 6	Unknown 6	Unknown 6	Unknown 12	Unknown 12	Unknown 12	Unknown 18	Unknown 18	Unknown 18	Standard S	Standard S	Standard S
G	No RT S	No RT S	No RT S	No RT S	No RT S	No RT S	No RT S	No RT S	No RT S	Standard	Standard S	Standard
H	No RT S	No RT S	No RT S	No RT S	No RT S	No RT S	No RT S	No RT S	No RT S	NTC	NTC	NTC

gets: | ● ERG20

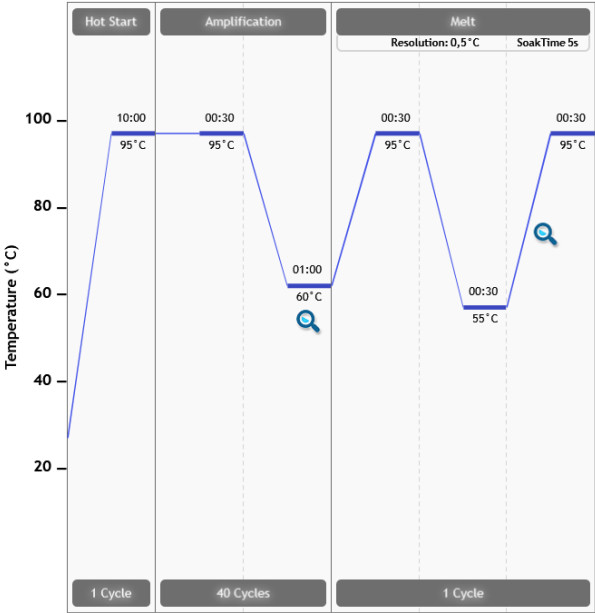
Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 10 Mar 2024 21:22:52

Thermal Profile

Estimated Runtime: N/A

Total Data Collection Points: 121/2700



Instrument Name: New\_Instrument

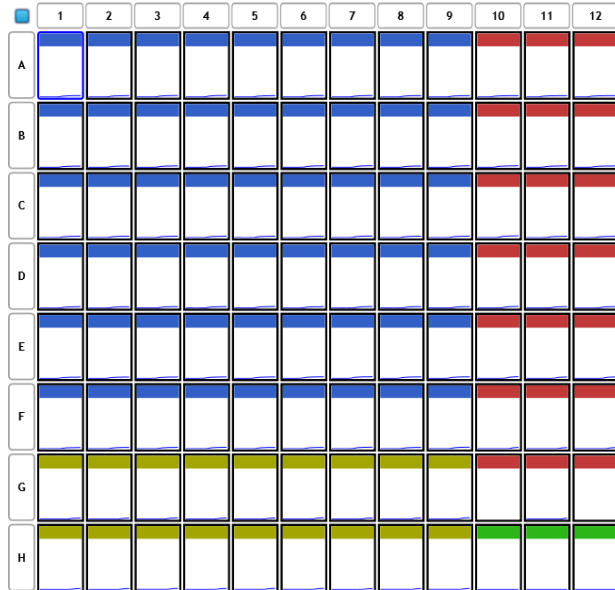
Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09

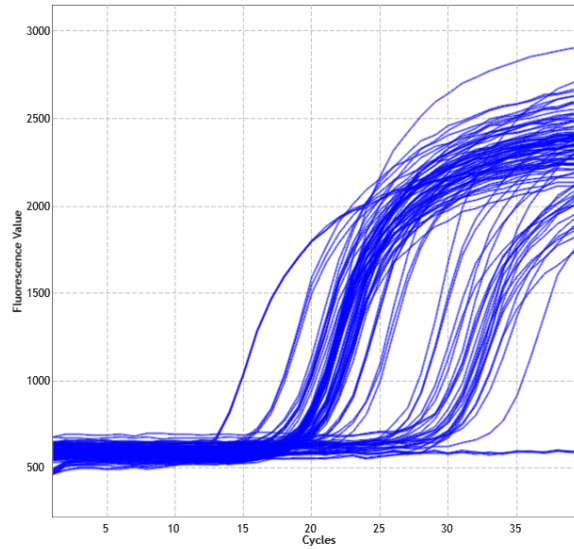
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt

Run Date: 10 Mar 2024 21:22:52

### Raw Data Plots



### Amplification Data



Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 10 Mar 2024 21:22:52

### Analysis Criteria

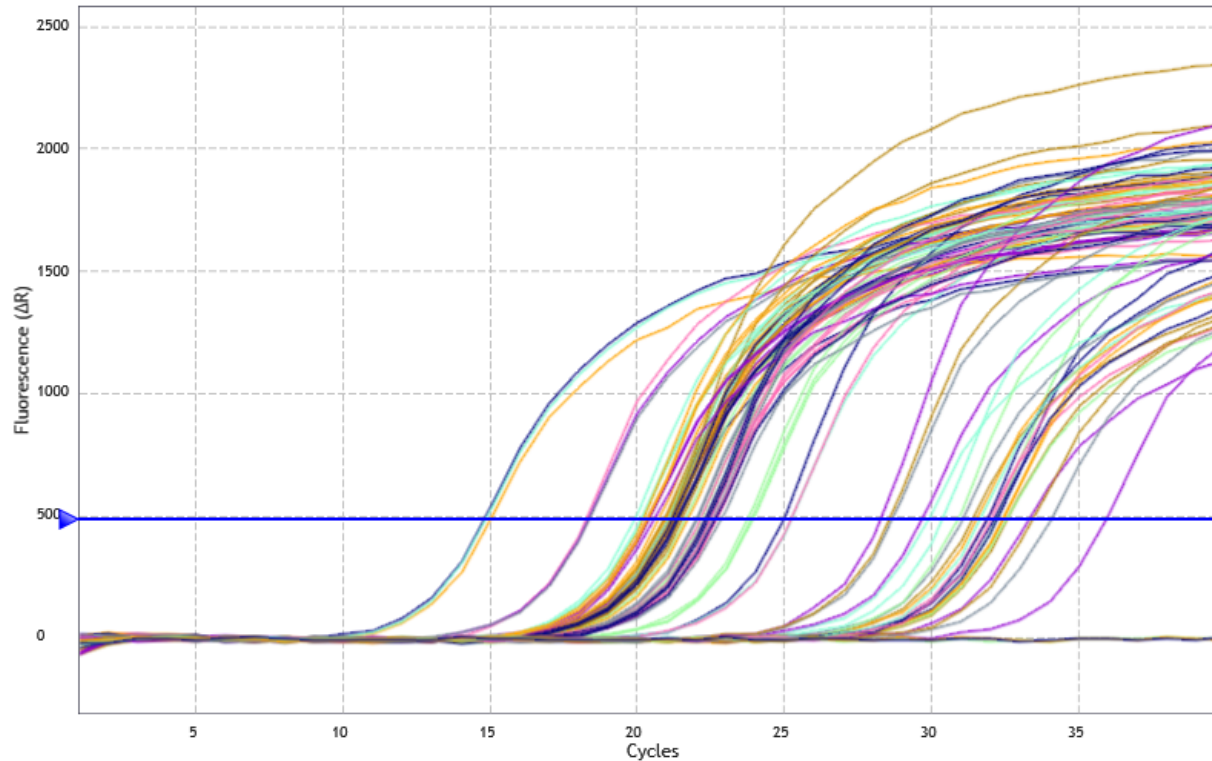
	1	2	3	4	5	6	7	8	9	10	11	12
A	Unknown 1	Unknown 1	Unknown 1	Unknown 7	Unknown 7	Unknown 7	Unknown 13	Unknown 13	Unknown 13	Standard 5	Standard 5	Standard 5
B	Unknown 2	Unknown 2	Unknown 2	Unknown 8	Unknown 8	Unknown 8	Unknown 14	Unknown 14	Unknown 14	Standard 5	Standard 5	Standard 5
C	Unknown 3	Unknown 3	Unknown 3	Unknown 9	Unknown 9	Unknown 9	Unknown 15	Unknown 15	Unknown 15	Standard 5	Standard 5	Standard 5
D	Unknown 4	Unknown 4	Unknown 4	Unknown 10	Unknown 10	Unknown 10	Unknown 16	Unknown 16	Unknown 16	Standard 5	Standard 5	Standard 5
E	Unknown 5	Unknown 5	Unknown 5	Unknown 11	Unknown 11	Unknown 11	Unknown 17	Unknown 17	Unknown 17	Standard 5	Standard 5	Standard 5
F	Unknown 6	Unknown 6	Unknown 6	Unknown 12	Unknown 12	Unknown 12	Unknown 18	Unknown 18	Unknown 18	Standard 5	Standard 5	Standard 5
G	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	Standard 5	Standard 5	Standard 5
H	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	No RT 5	NTC 5	NTC 5	NTC 5

gets:  ERG20

Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 10 Mar 2024 21:22:52

### Amplification Plots

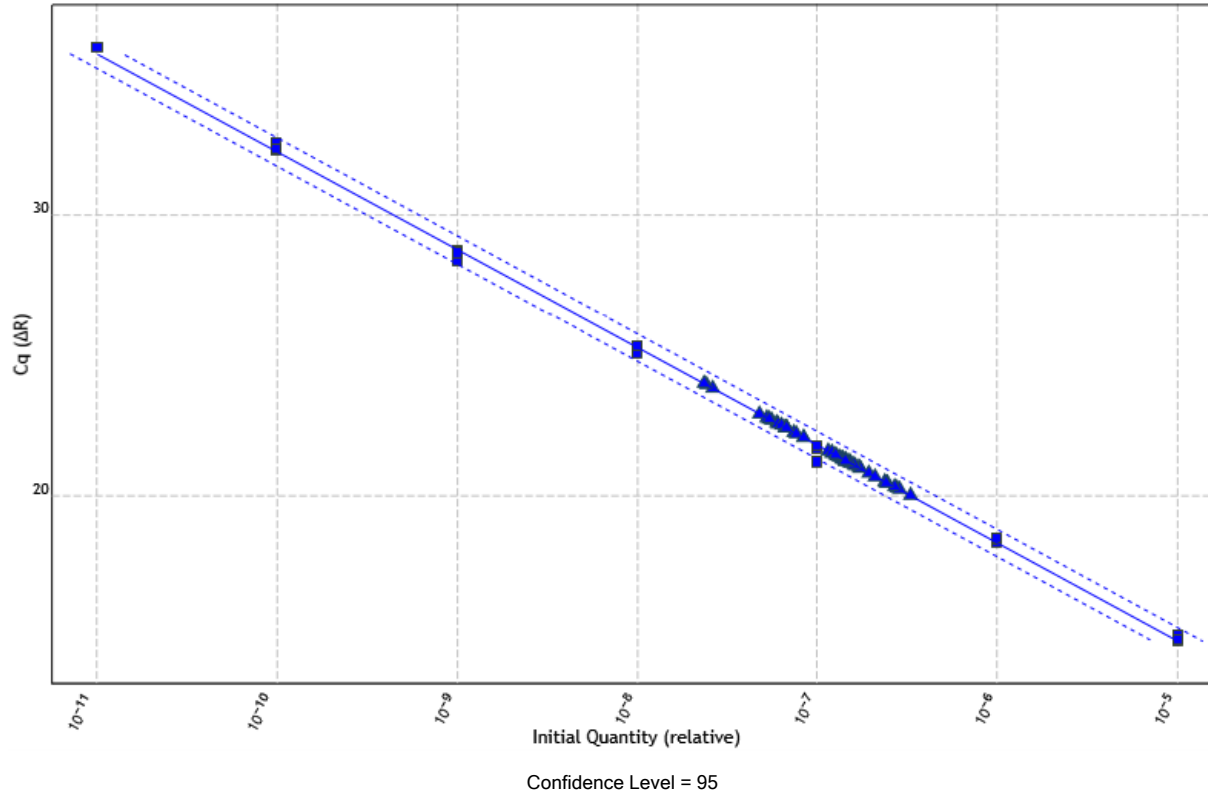


Threshold settings based on background: Start cycle = 5, End cycle = 9,  
Sigma multiplier = 10, Baseline correction = Adaptive, Smoothing = Off,  
Crosstalk Correction: -

Instrument Name: New\_Instrument  
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Experiment Name: bcar-l-erg20-24-03-09  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 10 Mar 2024 21:22:52

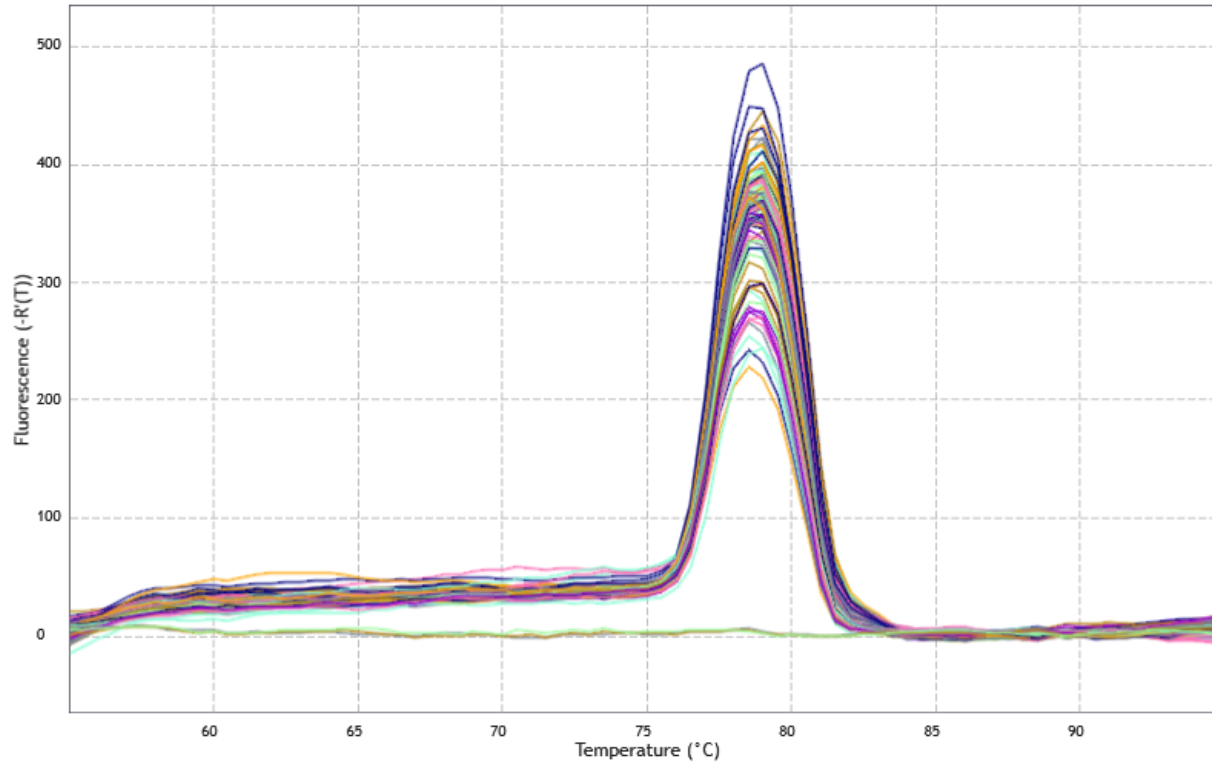
### Standard Curve Plots



Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 10 Mar 2024 21:22:52

### Melt Raw Derivative Curve



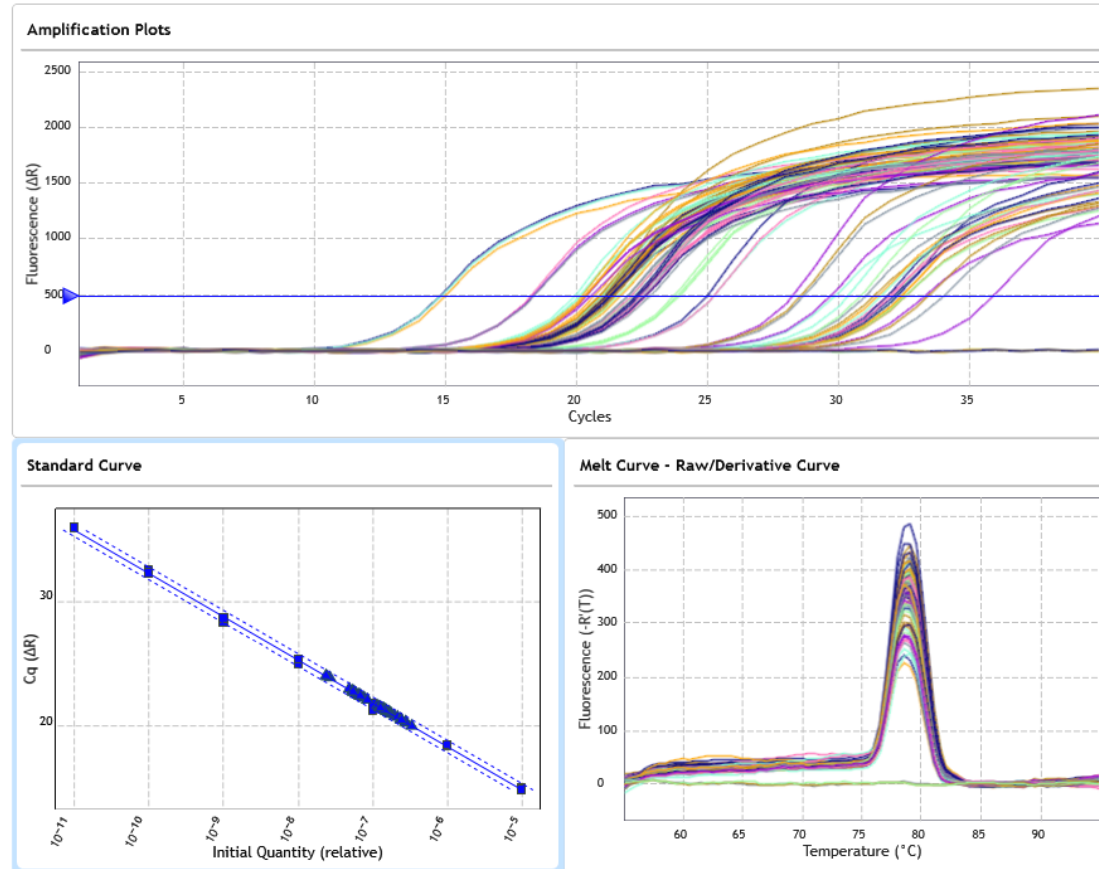
Savitzky-Golay = On, Points = 9, Normalization = Off, Temperature range : Lower = 55, Upper = 55, 1,  
Product melting temperature : Max number = 4, Min peak height = Off



Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09  
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### Graphical Displays



Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 10 Mar 2024 21:22:52

### Tabular Results (1 of 8)

Target	Dye	Threshold	R <sup>2</sup>	Slope	Efficiency
ERG20	SYBR	500	0,999	-3,487	93,54

Well	Well Type	Well Name	Target	Replicate	R Last	ΔR Last	RLast/ RFirst	Threshold (ΔR)	Baseline Start Cycle	Baseline End Cycle	Cq (ΔR)	Final Call (ΔR)	Quantity (relative)
A1	Unknown	2A1	ERG20	1	2247	1700,500	4,458	500,000	3	15	20,98	+	1,70e-007
A2	Unknown	2A1	ERG20	1	2227	1678,411	4,545	500,000	7	15	20,96	+	1,72e-007
A3	Unknown	2A1	ERG20	1	2405	1852,978	4,859	500,000	3	15	20,78	+	1,93e-007
A4	Unknown	2A2	ERG20	7	2455	1916,451	5,031	500,000	3	15	20,95	+	1,74e-007
A5	Unknown	2A2	ERG20	7	2204	1685,273	4,640	500,000	5	15	21,23	+	1,44e-007
A6	Unknown	2A2	ERG20	7	2413	1853,206	4,996	500,000	4	15	21,06	+	1,61e-007
A7	Unknown	2A3	ERG20	13	2359	1807,844	5,041	500,000	4	15	21,15	+	1,51e-007
A8	Unknown	2A3	ERG20	13	2280	1738,181	4,841	500,000	3	15	21,21	+	1,46e-007
A9	Unknown	2A3	ERG20	13	2251	1686,099	4,699	500,000	3	16	21,30	+	1,37e-007
A10	Standard	ST-5	ERG20	---	2246	1563,500	4,789	500,000	6	9	15,04	+	1,00e-005
A11	Standard	ST-5	ERG20	---	2246	1740,714	4,799	500,000	3	9	14,84	+	1,00e-005
A12	Standard	ST-5	ERG20	---	2262	1706,286	4,762	500,000	3	9	14,89	+	1,00e-005
B1	Unknown	2B1	ERG20	2	2144	1547,092	3,856	500,000	2	16	21,49	+	1,21e-007
B2	Unknown	2B1	ERG20	2	2309	1699,613	3,934	500,000	3	16	21,28	+	1,39e-007
B3	Unknown	2B1	ERG20	2	2428	1812,235	4,108	500,000	2	16	21,15	+	1,52e-007
B4	Unknown	2B2	ERG20	8	2405	1748,129	3,752	500,000	6	17	22,38	+	6,71e-008
B5	Unknown	2B2	ERG20	8	2332	1722,376	3,906	500,000	2	17	22,42	+	6,58e-008
B6	Unknown	2B2	ERG20	8	2532	1890,507	4,192	500,000	2	17	22,23	+	7,43e-008
B7	Unknown	2B3	ERG20	14	2606	1996,666	4,485	500,000	2	17	22,56	+	5,97e-008
B8	Unknown	2B3	ERG20	14	2279	1684,513	4,027	500,000	2	17	22,90	+	4,77e-008
B9	Unknown	2B3	ERG20	14	2534	1899,435	4,273	500,000	2	17	22,66	+	5,59e-008

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09

Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt

Run Date: 10 Mar 2024 21:22:52

Tabular Results (2 of 8)

Quantity Avg. (relative)	Quantity SD (relative)	R <sup>2</sup> (ΔR)	Slope (ΔR)	Efficiency (%)	Melt Smoothing #	Melt Norm.	T <sub>m</sub> Product 1 (-R'(T))
1,78e-007	1,30e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,78e-007	1,30e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,78e-007	1,30e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,60e-007	1,48e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,60e-007	1,48e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,60e-007	1,48e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,45e-007	7,13e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,45e-007	7,13e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,45e-007	7,13e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-005	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-005	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-005	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,37e-007	1,53e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,37e-007	1,53e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,37e-007	1,53e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
6,91e-008	4,59e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
6,91e-008	4,59e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
6,91e-008	4,59e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
5,44e-008	6,13e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
5,44e-008	6,13e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
5,44e-008	6,13e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-006	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-006	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-006	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09

Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt

Run Date: 10 Mar 2024 21:22:52

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**Tabular Results (3 of 8)**

Well	Well Type	Well Name	Target	Replicate	R Last	$\Delta R$ Last	RLast/ RFist	Threshold ( $\Delta R$ )	Baseline Start Cycle	Baseline End Cycle	Cq ( $\Delta R$ )	Final Call ( $\Delta R$ )	Quantity (relative)
C1	Unknown	3A1	ERG20	3	2422	1862,271	4,404	500,000	2	16	21,23	+	1,44e-007
C2	Unknown	3A1	ERG20	3	2511	1945,964	4,421	500,000	2	16	21,07	+	1,60e-007
C3	Unknown	3A1	ERG20	3	2438	1858,961	4,104	500,000	2	16	21,16	+	1,51e-007
C4	Unknown	3A2	ERG20	9	2424	1819,351	3,954	500,000	2	16	21,28	+	1,40e-007
C5	Unknown	3A2	ERG20	9	2417	1879,589	4,278	500,000	2	15	21,16	+	1,50e-007
C6	Unknown	3A2	ERG20	9	2351	1810,171	4,251	500,000	2	16	21,24	+	1,43e-007
C7	Unknown	3A3	ERG20	15	2676	2102,862	4,662	500,000	3	16	21,35	+	1,33e-007
C8	Unknown	3A3	ERG20	15	2457	1883,090	4,311	500,000	2	16	21,58	+	1,14e-007
C9	Unknown	3A3	ERG20	15	2533	1961,352	4,523	500,000	5	16	21,50	+	1,20e-007
C10	Standard	ST-7	ERG20	---	2912	2349,614	5,219	500,000	2	16	21,18	+	1,00e-007
C11	Standard	ST-7	ERG20	---	2324	1788,646	4,264	500,000	2	16	21,69	+	1,00e-007
C12	Standard	ST-7	ERG20	---	2288	1730,249	4,130	500,000	2	16	21,78	+	1,00e-007
D1	Unknown	3B1	ERG20	4	2264	1705,394	4,124	500,000	2	17	22,40	+	6,64e-008
D2	Unknown	3B1	ERG20	4	2220	1628,982	3,922	500,000	7	16	22,38	+	6,72e-008
D3	Unknown	3B1	ERG20	4	2398	1800,850	3,849	500,000	2	16	22,19	+	7,63e-008
D4	Unknown	3B2	ERG20	10	2364	1769,387	3,856	500,000	5	16	21,41	+	1,28e-007
D5	Unknown	3B2	ERG20	10	2500	1901,543	4,058	500,000	2	15	21,23	+	1,44e-007
D6	Unknown	3B2	ERG20	10	2305	1741,778	3,920	500,000	2	15	21,42	+	1,27e-007
D7	Unknown	3B3	ERG20	16	2490	1882,707	4,095	500,000	3	18	23,81	+	2,62e-008
D8	Unknown	3B3	ERG20	16	2423	1801,955	3,979	500,000	2	19	23,92	+	2,44e-008
D9	Unknown	3B3	ERG20	16	2398	1757,231	3,825	500,000	6	18	23,98	+	2,34e-008
D10	Standard	ST-8	ERG20	---	2639	2025,796	4,312	500,000	2	20	25,04	+	1,00e-008
D11	Standard	ST-8	ERG20	---	2412	1786,684	3,699	500,000	3	19	25,32	+	1,00e-008
D12	Standard	ST-8	ERG20	---	2426	1857,291	4,112	500,000	2	20	25,32	+	1,00e-008

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09

Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt

Run Date: 10 Mar 2024 21:22:52

Tabular Results (4 of 8)

Quantity Avg. (relative)	Quantity SD (relative)	R <sup>2</sup> (ΔR)	Slope (ΔR)	Efficiency (%)	Melt Smoothing #	Melt Norm.	T <sub>m</sub> Product 1 (-R'(T))
1,52e-007	7,88e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,52e-007	7,88e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,52e-007	7,88e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,44e-007	5,53e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,44e-007	5,53e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,44e-007	5,53e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,22e-007	9,60e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,22e-007	9,60e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,22e-007	9,60e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-007	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-007	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-007	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
7,00e-008	5,52e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
7,00e-008	5,52e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
7,00e-008	5,52e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,33e-007	9,42e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,33e-007	9,42e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,33e-007	9,42e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,47e-008	1,42e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,47e-008	1,42e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,47e-008	1,42e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-008	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-008	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-008	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09

Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt

Run Date: 10 Mar 2024 21:22:52

Tabular Results (5 of 8)

Well	Well Type	Well Name	Target	Replicate	R Last	$\Delta R$ Last	RLast/ RFirst	Threshold ( $\Delta R$ )	Baseline Start Cycle	Baseline End Cycle	Cq ( $\Delta R$ )	Final Call ( $\Delta R$ )	Quantity (relative)
E1	Unknown	4A1	ERG20	5	2169	1552,022	3,901	500,000	7	15	20,66	+	2,10e-007
E2	Unknown	4A1	ERG20	5	2252	1677,330	3,917	500,000	3	15	20,44	+	2,43e-007
E3	Unknown	4A1	ERG20	5	2340	1662,128	3,714	500,000	7	15	20,48	+	2,37e-007
E4	Unknown	4A2	ERG20	11	2403	1757,947	3,703	500,000	2	15	20,24	+	2,76e-007
E5	Unknown	4A2	ERG20	11	2389	1777,726	3,923	500,000	3	14	20,19	+	2,85e-007
E6	Unknown	4A2	ERG20	11	2597	1946,768	4,096	500,000	3	14	19,98	+	3,30e-007
E7	Unknown	4A3	ERG20	17	2666	2036,605	4,421	500,000	3	14	20,28	+	2,69e-007
E8	Unknown	4A3	ERG20	17	2487	1868,000	4,104	500,000	2	14	20,43	+	2,45e-007
E9	Unknown	4A3	ERG20	17	2555	1889,764	4,309	500,000	6	15	20,45	+	2,41e-007
E10	Standard	ST-9	ERG20	---	2734	2108,313	4,403	500,000	2	23	28,34	+	1,00e-009
E11	Standard	ST-9	ERG20	---	2344	1745,681	3,920	500,000	3	23	28,74	+	1,00e-009
E12	Standard	ST-9	ERG20	---	2438	1855,202	4,182	500,000	3	23	28,64	+	1,00e-009
F1	Unknown	4A2	ERG20	6	2119	1552,412	3,983	500,000	3	17	22,39	+	6,70e-008
F2	Unknown	4A2	ERG20	6	2365	1787,779	4,186	500,000	3	17	22,05	+	8,39e-008
F3	Unknown	4A2	ERG20	6	2390	1807,547	4,024	500,000	3	16	22,04	+	8,42e-008
F4	Unknown	4B2	ERG20	12	2483	1905,073	4,159	500,000	6	17	22,55	+	6,01e-008
F5	Unknown	4B2	ERG20	12	2374	1794,929	4,024	500,000	2	17	22,72	+	5,38e-008
F6	Unknown	4B2	ERG20	12	2367	1754,105	3,958	500,000	3	17	22,75	+	5,26e-008
F7	Unknown	4B3	ERG20	18	2596	1927,005	4,127	500,000	3	17	22,48	+	6,30e-008
F8	Unknown	4B3	ERG20	18	2333	1683,479	3,968	500,000	6	17	22,72	+	5,40e-008
F9	Unknown	4B3	ERG20	18	2630	1994,656	4,655	500,000	6	17	22,39	+	6,70e-008
F10	Standard	ST-10	ERG20	---	2337	1741,291	4,022	500,000	6	27	32,29	+	1,00e-010
F11	Standard	ST-10	ERG20	---	2047	1480,640	3,649	500,000	3	27	32,53	+	1,00e-010
F12	Standard	ST-10	ERG20	---	2177	1605,326	3,881	500,000	3	27	32,34	+	1,00e-010

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09

Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt

Run Date: 10 Mar 2024 21:22:52

Tabular Results (6 of 8)

Quantity Avg. (relative)	Quantity SD (relative)	R <sup>2</sup> (ΔR)	Slope (ΔR)	Efficiency (%)	Melt Smoothing #	Melt Norm.	T <sub>m</sub> Product 1 (-R'(T))
2,30e-007	1,74e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,30e-007	1,74e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,30e-007	1,74e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,97e-007	2,85e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,97e-007	2,85e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,97e-007	2,85e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,52e-007	1,53e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,52e-007	1,53e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
2,52e-007	1,53e-008	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-009	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-009	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-009	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
7,84e-008	9,85e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
7,84e-008	9,85e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
7,84e-008	9,85e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
5,55e-008	4,03e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
5,55e-008	4,03e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
5,55e-008	4,03e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
6,13e-008	6,69e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
6,13e-008	6,69e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
6,13e-008	6,69e-009	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-010	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-010	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>
1,00e-010	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No T <sub>m</sub>

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09

Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt

Run Date: 10 Mar 2024 21:22:52

Tabular Results (7 of 8)

Well	Well Type	Well Name	Target	Replicate	R Last	$\Delta R$ Last	RLast/ RFirst	Threshold ( $\Delta R$ )	Baseline Start Cycle	Baseline End Cycle	Cq ( $\Delta R$ )	Final Call ( $\Delta R$ )	Quantity (relative)
G1	No RT	2A1	ERG20	---	2026	1402,897	3,434	500,000	3	24	29,94	+	4,56e-010
G2	No RT	3A1	ERG20	---	1894	1287,600	3,173	500,000	2	26	31,96	+	1,20e-010
G3	No RT	4A1	ERG20	---	2229	1589,948	3,467	500,000	2	24	29,75	+	5,17e-010
G4	No RT	2A2	ERG20	---	2106	1469,438	3,296	500,000	2	25	31,12	+	2,10e-010
G5	No RT	3A2	ERG20	---	2043	1335,300	3,013	500,000	2	26	31,48	+	1,66e-010
G6	No RT	4A2	ERG20	---	2342	1679,641	3,631	500,000	3	26	30,95	+	2,35e-010
G7	No RT	2A3	ERG20	---	2113	1406,020	3,117	500,000	2	26	31,63	+	1,50e-010
G8	No RT	3A3	ERG20	---	2147	1498,684	3,397	500,000	5	26	31,95	+	1,22e-010
G9	No RT	4A3	ERG20	---	2413	1737,395	3,701	500,000	6	25	30,45	+	3,28e-010
G11	Standard	ST-11	ERG20	---	1831	1209,995	2,982	500,000	3	30	35,97	+	1,00e-011
H1	No RT	2B1	ERG20	---	1912	1293,179	3,171	500,000	3	27	32,68	+	7,48e-011
H2	No RT	3B1	ERG20	---	1860	1255,669	3,116	500,000	3	27	32,66	+	7,60e-011
H3	No RT	4B1	ERG20	---	2077	1432,041	3,225	500,000	3	27	32,51	+	8,36e-011
H4	No RT	2B2	ERG20	---	2000	1366,560	3,155	500,000	2	26	32,19	+	1,03e-010
H5	No RT	3B2	ERG20	---	2080	1427,700	3,230	500,000	2	26	31,74	+	1,40e-010
H6	No RT	4B2	ERG20	---	2084	1430,065	3,206	500,000	3	26	32,10	+	1,10e-010
H7	No RT	2B3	ERG20	---	1768	1141,164	2,852	500,000	3	27	33,40	+	4,64e-011
H8	No RT	3B3	ERG20	---	1929	1273,373	3,005	500,000	6	28	34,10	+	2,94e-011
H9	No RT	4B3	ERG20	---	1968	1320,238	3,139	500,000	6	28	33,52	+	4,29e-011
H10	NTC	NTC	ERG20	---	594	1,186	1,029	500,000	3	40	No Cq	-	No Cq
H11	NTC	NTC	ERG20	---	593	-3,020	1,017	500,000	3	40	No Cq	-	No Cq
H12	NTC	NTC	ERG20	---	607	12,526	1,074	500,000	3	40	No Cq	-	No Cq



Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09

Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt

Run Date: 10 Mar 2024 21:22:52

Tabular Results (8 of 8)

Quantity Avg. (relative)	Quantity SD (relative)	R <sup>2</sup> (ΔR)	Slope (ΔR)	Efficiency (%)	Melt Smoothing #	Melt Norm.	Tm Product 1 (-R'(T))
4,56e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
1,20e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
5,17e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
2,10e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
1,66e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
2,35e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
1,50e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
1,22e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
3,28e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
1,00e-011	0,00e+000	0,999	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
7,48e-011	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
7,60e-011	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
8,36e-011	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
1,03e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
1,40e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
1,10e-010	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
4,64e-011	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
2,94e-011	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
4,29e-011	N/A	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
No Cq	No Cq	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
No Cq	No Cq	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm
No Cq	No Cq	No Cq for ERG20 Standards	No Cq for ERG20 Standards	No Cq for ERG20 Standards	9	Off	No Tm

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-l-erg20-24-03-09

Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt

Run Date: 10 Mar 2024 21:22:52

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### Experiment Notes

< no experiment notes >