

# bcar-r-erg13-24-03-12 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: 13 Mar 2024 21:36:16

Instrument Type: AriaMx

Serial Number: MY16485260

Run By: Guest

Run Start Date: 13 Mar 2024 19:47:33

Elapsed Time: 1 : 48 : 29

Report Generated: 13 Mar 2024

Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 13 Mar 2024 19:47:33

### 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 S	Standard S	Standard S
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: | ● ERG13

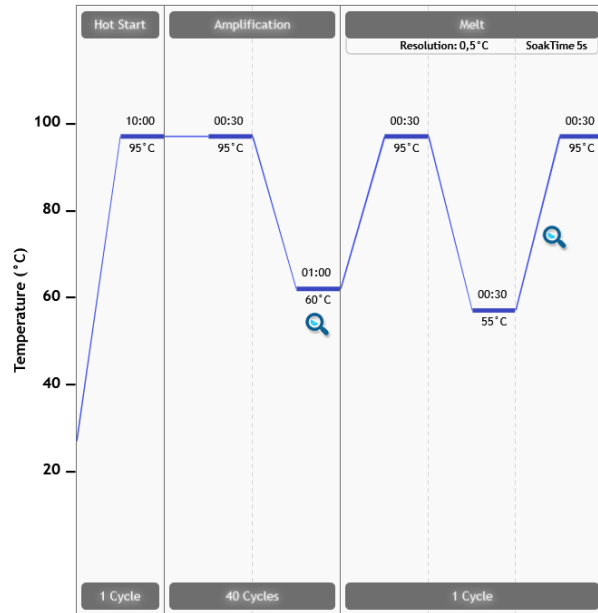
Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 13 Mar 2024 19:47:33

### Thermal Profile

Estimated Runtime: N/A

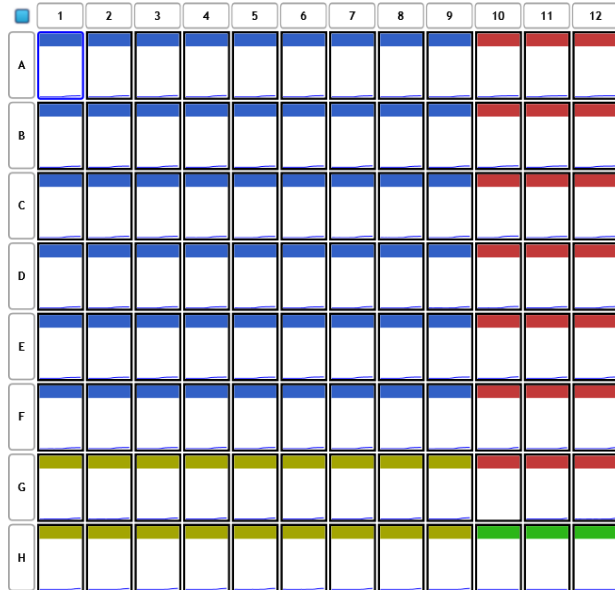
Total Data Collection Points: 121/2700



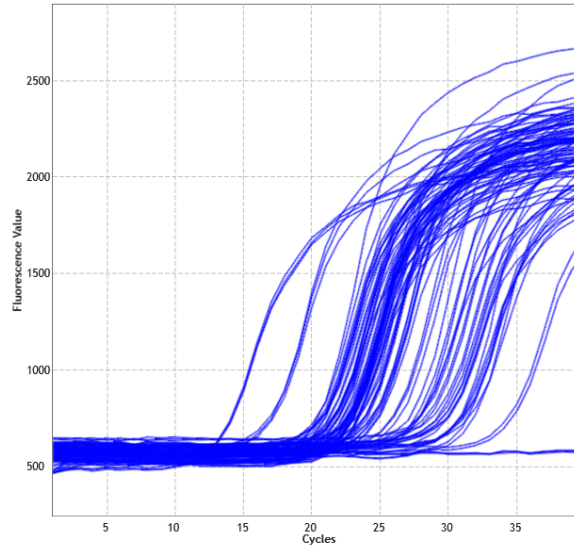
Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 13 Mar 2024 19:47:33

### Raw Data Plots



### Amplification Data



Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 13 Mar 2024 19:47:33

### Analysis Criteria

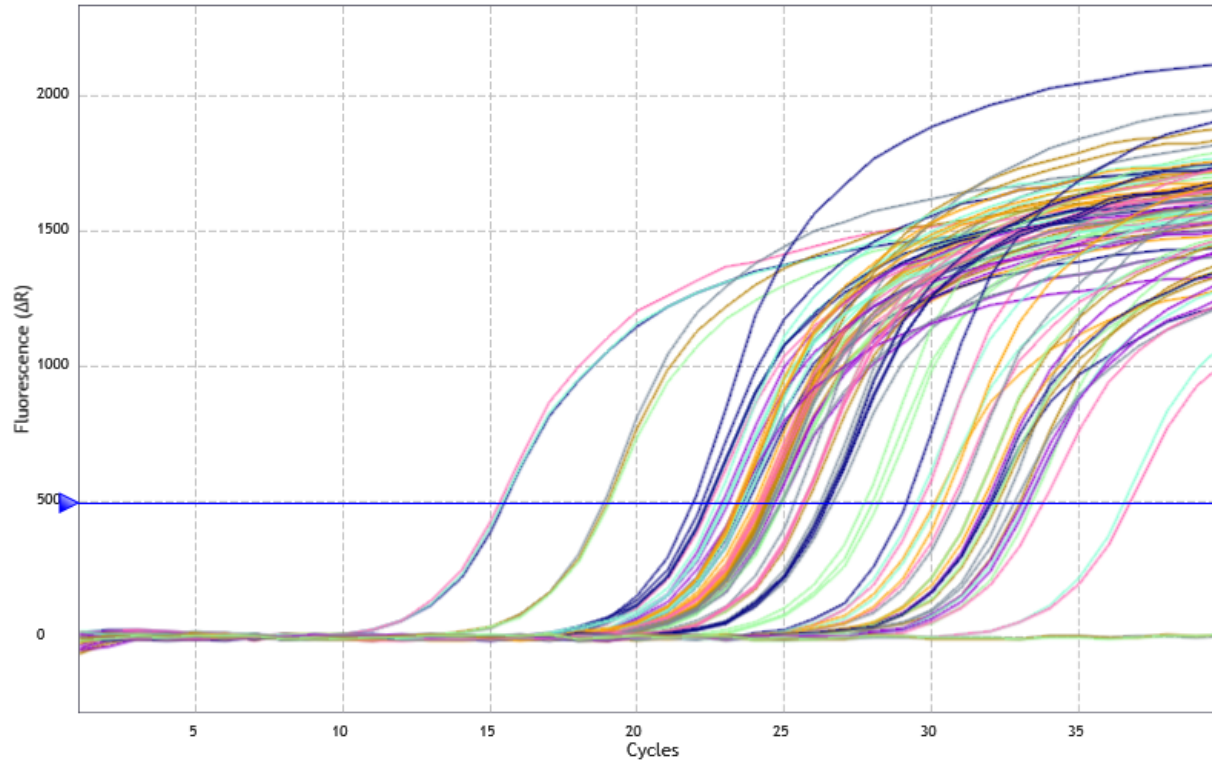
	1	2	3	4	5	6	7	8	9	10	11	12
A	Unknown 1	Unknown 1	Unknown 1	Unknown 7	Unknown 7	Unknown 7	Unknown 13	Unknown 13	Unknown 13	Standard 5	Standard 5	Standard 5
B	Unknown 2	Unknown 2	Unknown 2	Unknown 8	Unknown 8	Unknown 8	Unknown 14	Unknown 14	Unknown 14	Standard 5	Standard 5	Standard 5
C	Unknown 3	Unknown 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:  ERG13

Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 13 Mar 2024 19:47:33

### Amplification Plots

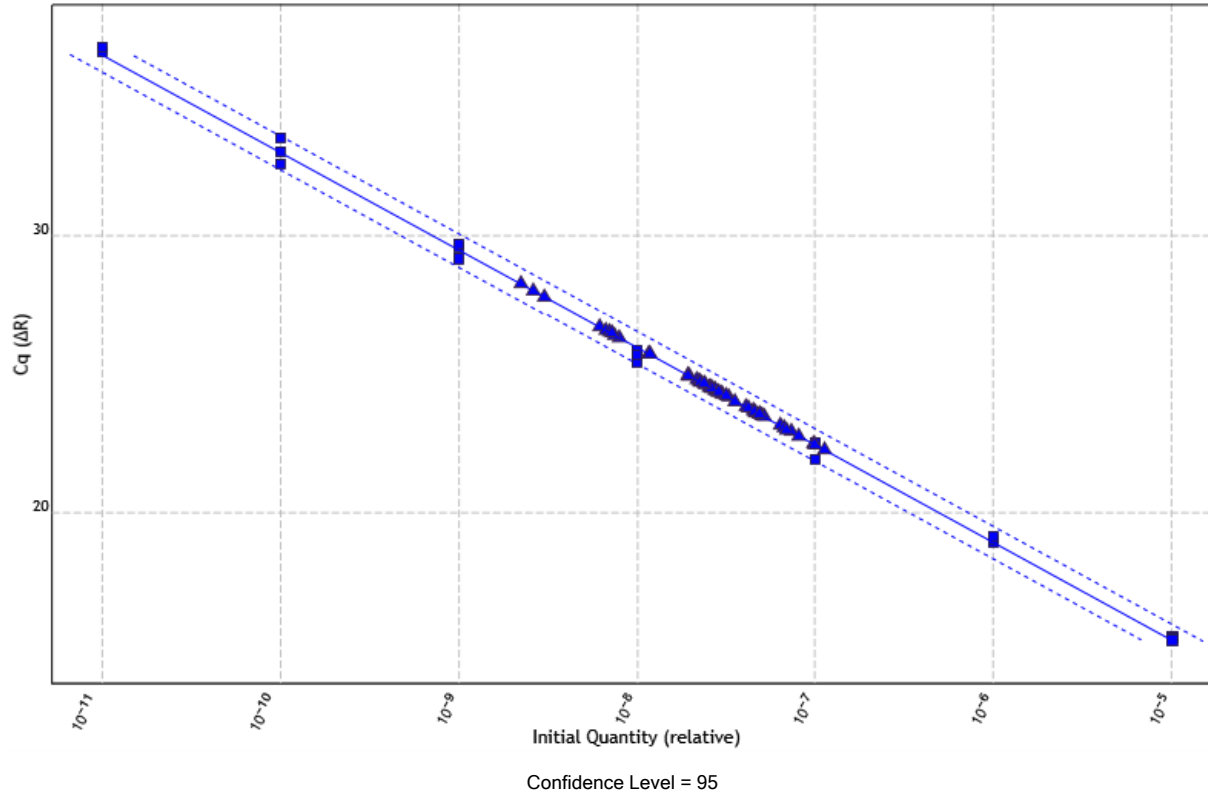


Threshold settings based on background: Start cycle = 5, End cycle = 9,  
Sigma multiplier = 10, Baseline correction = Adaptive, Smoothing = Off,  
Crosstalk Correction: -

Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 13 Mar 2024 19:47:33

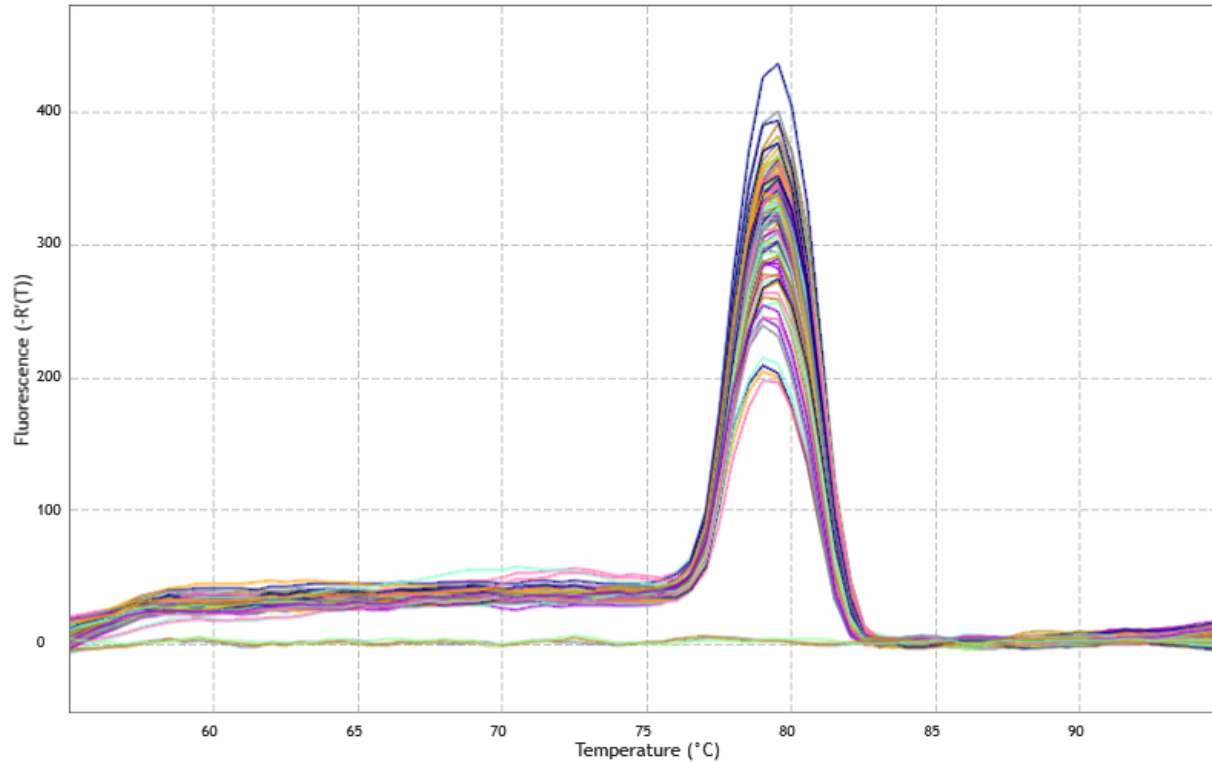
### Standard Curve Plots



Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 13 Mar 2024 19:47:33

### Melt Raw Derivative Curve



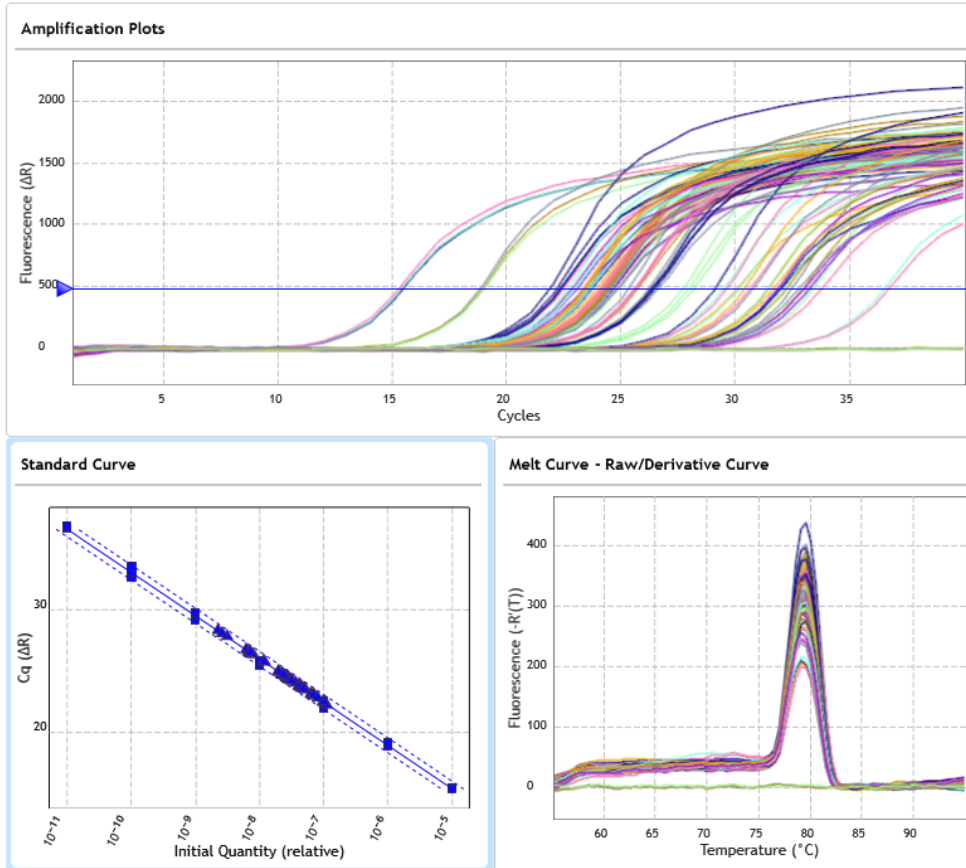
Savitzky-Golay = On, Points = 9, Normalization = Off, Temperature range : Lower = 55, Upper = 55, 1,  
Product melting temperature : Max number = 4, Min peak height = Off



Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 13 Mar 2024 19:47:33

### Graphical Displays



Instrument Name: New\_Instrument  
Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12  
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt  
Run Date: 13 Mar 2024 19:47:33

Tabular Results (1 of 8)

Target	Dye	Threshold	R <sup>2</sup>	Slope	Efficiency
ERG13	SYBR	500	0,999	-3,529	92,04

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	ERG13	1	2029	1484,585	3,828	500,000	2	17	24,24	+	3,02e-008
A2	Unknown	2A1	ERG13	1	2116	1593,559	4,109	500,000	2	18	24,14	+	3,23e-008
A3	Unknown	2A1	ERG13	1	2201	1677,320	4,358	500,000	4	18	24,00	+	3,54e-008
A4	Unknown	2A2	ERG13	7	2248	1727,338	4,664	500,000	4	19	24,45	+	2,64e-008
A5	Unknown	2A2	ERG13	7	2067	1524,367	4,306	500,000	5	19	24,68	+	2,27e-008
A6	Unknown	2A2	ERG13	7	2208	1668,433	4,688	500,000	5	19	24,49	+	2,57e-008
A7	Unknown	2A3	ERG13	13	2051	1537,852	4,336	500,000	7	19	24,76	+	2,16e-008
A8	Unknown	2A3	ERG13	13	2016	1506,214	4,262	500,000	7	19	24,71	+	2,23e-008
A9	Unknown	2A3	ERG13	13	1952	1417,015	3,992	500,000	2	18	24,93	+	1,93e-008
A10	Standard	ST-5	ERG13	---	2094	1559,750	4,273	500,000	2	9	15,53	+	1,00e-005
A11	Standard	ST-5	ERG13	---	2066	1562,750	4,377	500,000	2	9	15,47	+	1,00e-005
A12	Standard	ST-5	ERG13	---	2096	1615,429	4,385	500,000	3	9	15,36	+	1,00e-005
B1	Unknown	2B1	ERG13	2	2032	1438,838	3,661	500,000	2	18	23,79	+	4,05e-008
B2	Unknown	2B1	ERG13	2	2135	1536,169	3,752	500,000	2	17	23,65	+	4,45e-008
B3	Unknown	2B1	ERG13	2	2242	1643,992	3,940	500,000	4	18	23,47	+	4,99e-008
B4	Unknown	2B2	ERG13	8	2199	1576,926	3,647	500,000	3	19	24,94	+	1,92e-008
B5	Unknown	2B2	ERG13	8	2142	1547,366	3,680	500,000	2	19	24,90	+	1,97e-008
B6	Unknown	2B2	ERG13	8	2322	1704,690	3,876	500,000	2	19	24,68	+	2,26e-008
B7	Unknown	2B3	ERG13	14	2397	1822,730	4,183	500,000	7	20	26,28	+	7,98e-009
B8	Unknown	2B3	ERG13	14	2069	1507,350	3,649	500,000	7	21	26,69	+	6,13e-009
B9	Unknown	2B3	ERG13	14	2338	1730,876	3,943	500,000	7	21	26,39	+	7,43e-009

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12

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

Run Date: 13 Mar 2024 19:47:33

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))
3,26e-008	2,64e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
3,26e-008	2,64e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
3,26e-008	2,64e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,49e-008	1,99e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,49e-008	1,99e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,49e-008	1,99e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,11e-008	1,55e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,11e-008	1,55e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,11e-008	1,55e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-005	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-005	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-005	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,50e-008	4,75e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,50e-008	4,75e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,50e-008	4,75e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,05e-008	1,87e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,05e-008	1,87e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,05e-008	1,87e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
7,18e-009	9,54e-010	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
7,18e-009	9,54e-010	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
7,18e-009	9,54e-010	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-006	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-006	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-006	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12

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

Run Date: 13 Mar 2024 19:47:33

---

**Tabular Results (3 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)
C1	Unknown	3A1	ERG13	3	2164	1625,882	4,022	500,000	2	18	23,75	+	4,17e-008
C2	Unknown	3A1	ERG13	3	2293	1748,943	4,162	500,000	2	17	23,58	+	4,64e-008
C3	Unknown	3A1	ERG13	3	2298	1715,295	4,074	500,000	7	18	23,61	+	4,55e-008
C4	Unknown	3A2	ERG13	9	2207	1653,020	4,042	500,000	3	19	24,39	+	2,74e-008
C5	Unknown	3A2	ERG13	9	2202	1676,772	4,078	500,000	2	19	24,35	+	2,82e-008
C6	Unknown	3A2	ERG13	9	2087	1578,775	3,923	500,000	2	19	24,47	+	2,60e-008
C7	Unknown	3A3	ERG13	15	2422	1877,868	4,412	500,000	7	19	24,40	+	2,72e-008
C8	Unknown	3A3	ERG13	15	2263	1719,815	4,027	500,000	2	19	24,53	+	2,51e-008
C9	Unknown	3A3	ERG13	15	2377	1839,881	4,306	500,000	2	19	24,46	+	2,61e-008
C10	Standard	ST-7	ERG13	---	2680	2118,000	4,926	500,000	2	17	21,91	+	1,00e-007
C11	Standard	ST-7	ERG13	---	2191	1624,218	4,111	500,000	7	17	22,45	+	1,00e-007
C12	Standard	ST-7	ERG13	---	2131	1563,527	4,021	500,000	7	17	22,54	+	1,00e-007
D1	Unknown	3B1	ERG13	4	2153	1590,676	3,811	500,000	2	18	24,27	+	2,96e-008
D2	Unknown	3B1	ERG13	4	2102	1536,676	3,662	500,000	2	18	24,33	+	2,86e-008
D3	Unknown	3B1	ERG13	4	2209	1611,154	3,910	500,000	7	18	24,18	+	3,14e-008
D4	Unknown	3B2	ERG13	10	2234	1625,200	3,926	500,000	7	17	22,45	+	9,74e-008
D5	Unknown	3B2	ERG13	10	2327	1746,875	3,904	500,000	2	17	22,23	+	1,12e-007
D6	Unknown	3B2	ERG13	10	2147	1599,763	3,734	500,000	2	17	22,43	+	9,83e-008
D7	Unknown	3B3	ERG13	16	2367	1794,200	3,952	500,000	7	22	27,76	+	3,03e-009
D8	Unknown	3B3	ERG13	16	2183	1611,784	3,790	500,000	4	22	28,24	+	2,23e-009
D9	Unknown	3B3	ERG13	16	2199	1597,968	3,581	500,000	4	22	27,99	+	2,62e-009
D10	Standard	ST-8	ERG13	---	2551	1950,296	4,252	500,000	2	20	25,42	+	1,00e-008
D11	Standard	ST-8	ERG13	---	2253	1599,136	3,488	500,000	7	20	25,82	+	1,00e-008
D12	Standard	ST-8	ERG13	---	2309	1721,029	4,044	500,000	7	20	25,71	+	1,00e-008

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12

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

Run Date: 13 Mar 2024 19:47:33

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))
4,45e-008	2,53e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,45e-008	2,53e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,45e-008	2,53e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,72e-008	1,10e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,72e-008	1,10e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,72e-008	1,10e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,61e-008	1,04e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,61e-008	1,04e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,61e-008	1,04e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-007	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-007	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-007	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,98e-008	1,42e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,98e-008	1,42e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,98e-008	1,42e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,03e-007	8,23e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,03e-007	8,23e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,03e-007	8,23e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,63e-009	4,02e-010	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,63e-009	4,02e-010	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,63e-009	4,02e-010	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-008	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-008	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-008	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12

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

Run Date: 13 Mar 2024 19:47:33

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	ERG13	5	1903	1331,960	3,473	500,000	2	17	23,47	+	4,99e-008
E2	Unknown	4A1	ERG13	5	2096	1498,927	3,743	500,000	7	17	23,12	+	6,30e-008
E3	Unknown	4A1	ERG13	5	2258	1601,145	3,702	500,000	7	17	22,90	+	7,26e-008
E4	Unknown	4A2	ERG13	11	2210	1558,036	3,553	500,000	7	17	23,02	+	6,68e-008
E5	Unknown	4A2	ERG13	11	2116	1554,000	3,661	500,000	2	17	22,97	+	6,91e-008
E6	Unknown	4A2	ERG13	11	2359	1773,012	3,848	500,000	2	17	22,73	+	8,08e-008
E7	Unknown	4A3	ERG13	17	2348	1758,859	3,980	500,000	7	18	23,42	+	5,15e-008
E8	Unknown	4A3	ERG13	17	2281	1684,859	3,758	500,000	7	18	23,52	+	4,84e-008
E9	Unknown	4A3	ERG13	17	2315	1716,995	3,891	500,000	3	17	23,52	+	4,84e-008
E10	Standard	ST-9	ERG13	---	2532	1910,497	4,137	500,000	2	24	29,17	+	1,00e-009
E11	Standard	ST-9	ERG13	---	2207	1605,231	3,747	500,000	7	24	29,56	+	1,00e-009
E12	Standard	ST-9	ERG13	---	2328	1743,471	4,150	500,000	7	24	29,69	+	1,00e-009
F1	Unknown	4A2	ERG13	6	1971	1407,162	3,684	500,000	2	18	24,92	+	1,94e-008
F2	Unknown	4A2	ERG13	6	2218	1626,897	3,989	500,000	7	18	24,58	+	2,42e-008
F3	Unknown	4A2	ERG13	6	2208	1592,269	3,880	500,000	7	18	24,62	+	2,36e-008
F4	Unknown	4B2	ERG13	12	2342	1728,182	4,145	500,000	7	20	25,72	+	1,15e-008
F5	Unknown	4B2	ERG13	12	2227	1664,449	4,020	500,000	2	20	25,71	+	1,16e-008
F6	Unknown	4B2	ERG13	12	2238	1655,789	3,813	500,000	2	20	25,69	+	1,17e-008
F7	Unknown	4B3	ERG13	18	2297	1684,145	3,687	500,000	7	20	26,57	+	6,63e-009
F8	Unknown	4B3	ERG13	18	2249	1665,007	3,844	500,000	7	21	26,50	+	6,93e-009
F9	Unknown	4B3	ERG13	18	2298	1740,081	4,232	500,000	7	21	26,44	+	7,18e-009
F10	Standard	ST-10	ERG13	---	2220	1634,550	3,861	500,000	2	27	32,57	+	1,00e-010
F11	Standard	ST-10	ERG13	---	1942	1386,090	3,637	500,000	7	27	33,03	+	1,00e-010
F12	Standard	ST-10	ERG13	---	2051	1482,113	3,791	500,000	7	28	33,50	+	1,00e-010

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12

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

Run Date: 13 Mar 2024 19:47:33

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))
6,18e-008	1,14e-008	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
6,18e-008	1,14e-008	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
6,18e-008	1,14e-008	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
7,23e-008	7,51e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
7,23e-008	7,51e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
7,23e-008	7,51e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,94e-008	1,79e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,94e-008	1,79e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,94e-008	1,79e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-009	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-009	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-009	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,24e-008	2,59e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,24e-008	2,59e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,24e-008	2,59e-009	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,16e-008	9,14e-011	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,16e-008	9,14e-011	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,16e-008	9,14e-011	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
6,91e-009	2,74e-010	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
6,91e-009	2,74e-010	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
6,91e-009	2,74e-010	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-010	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-010	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-010	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12

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

Run Date: 13 Mar 2024 19:47:33

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	ERG13	---	1905	1285,774	3,218	500,000	2	24	30,13	+	6,47e-010
G2	No RT	3A1	ERG13	---	1832	1228,080	3,142	500,000	2	26	32,07	+	1,83e-010
G3	No RT	4A1	ERG13	---	2105	1459,677	3,412	500,000	7	24	30,23	+	6,05e-010
G4	No RT	2A2	ERG13	---	2115	1473,612	3,384	500,000	7	24	30,73	+	4,38e-010
G5	No RT	3A2	ERG13	---	2065	1433,062	3,363	500,000	6	26	31,91	+	2,02e-010
G6	No RT	4A2	ERG13	---	2212	1579,647	3,528	500,000	2	25	30,85	+	4,04e-010
G7	No RT	2A3	ERG13	---	2129	1459,953	3,260	500,000	7	26	31,53	+	2,60e-010
G8	No RT	3A3	ERG13	---	2123	1482,073	3,375	500,000	7	26	31,53	+	2,60e-010
G9	No RT	4A3	ERG13	---	2350	1685,962	3,627	500,000	2	25	30,47	+	5,20e-010
G11	Standard	ST-11	ERG13	---	1698	1088,939	2,830	500,000	7	30	36,61	+	1,00e-011
G12	Standard	ST-11	ERG13	---	1609	1014,287	2,803	500,000	7	30	36,79	+	1,00e-011
H1	No RT	2B1	ERG13	---	1870	1257,541	3,101	500,000	2	27	33,11	+	9,26e-011
H2	No RT	3B1	ERG13	---	1815	1224,435	3,129	500,000	7	27	32,87	+	1,08e-010
H3	No RT	4B1	ERG13	---	1965	1338,920	3,206	500,000	7	26	32,31	+	1,56e-010
H4	No RT	2B2	ERG13	---	1991	1366,189	3,248	500,000	7	25	32,22	+	1,66e-010
H5	No RT	3B2	ERG13	---	1987	1356,580	3,179	500,000	2	26	31,76	+	2,24e-010
H6	No RT	4B2	ERG13	---	1987	1357,680	3,134	500,000	2	26	32,01	+	1,90e-010
H7	No RT	2B3	ERG13	---	1901	1290,340	3,132	500,000	7	27	33,28	+	8,28e-011
H8	No RT	3B3	ERG13	---	1859	1239,453	2,974	500,000	7	27	33,83	+	5,80e-011
H9	No RT	4B3	ERG13	---	1935	1318,457	3,157	500,000	2	27	33,34	+	7,99e-011
H10	NTC	NTC	ERG13	---	582	2,399	1,028	500,000	2	40	No Cq	-	No Cq
H11	NTC	NTC	ERG13	---	590	8,398	1,044	500,000	7	40	No Cq	-	No Cq
H12	NTC	NTC	ERG13	---	588	9,126	1,067	500,000	7	40	No Cq	-	No Cq



Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12

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

Run Date: 13 Mar 2024 19:47:33

Tabular Results (8 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))
6,47e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,83e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
6,05e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,38e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,02e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
4,04e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,60e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,60e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
5,20e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-011	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,00e-011	0,00e+000	0,999	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
9,26e-011	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,08e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,56e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,66e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
2,24e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
1,90e-010	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
8,28e-011	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
5,80e-011	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
7,99e-011	N/A	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
No Cq	No Cq	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
No Cq	No Cq	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>
No Cq	No Cq	No Cq for ERG13 Standards	No Cq for ERG13 Standards	No Cq for ERG13 Standards	9	Off	No T <sub>m</sub>

Instrument Name: New\_Instrument

Instrument Type: AriaMx

Experiment Name: bcar-r-erg13-24-03-12

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

Run Date: 13 Mar 2024 19:47:33

---

### Experiment Notes

< no experiment notes >