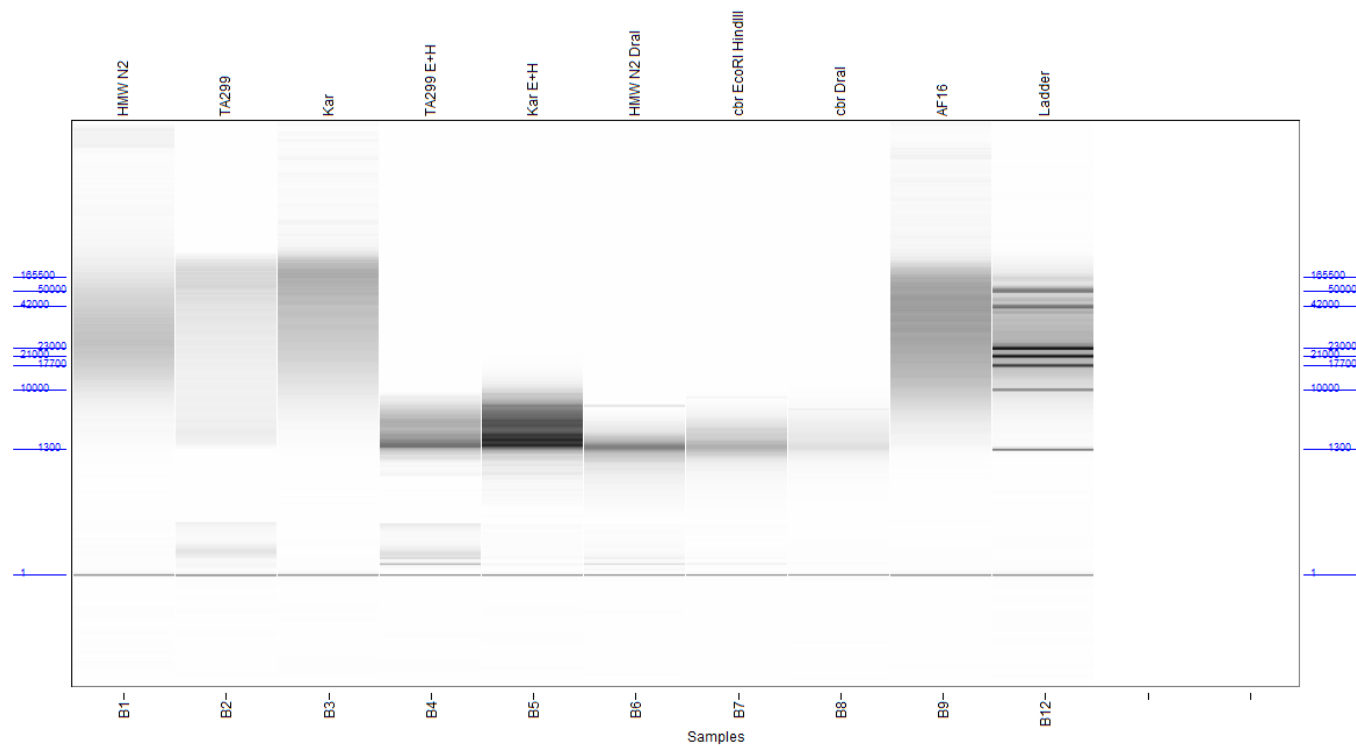


***FEMTO Pulse Run Summary:*****Filename and Data Path:** C:\AATI\Data\2024 01 23\Tray-1 14-54-31\2024 01 23 14H 54M.raw**Created:** 1/23/2024 3:11 PM**# of Capillaries:** 10**Array Serial #:** 070222-47USFP**Effect Length:** 22 cm**Array Usage Count:** 272**FEMTO Pulse Version #:** 1.0.0.32**Device Serial #:** F12204**METHOD INFORMATION****Method Name:** FP-1002-22 - gDNA 165Kb.mthds**Gel Prime:** No**Full Conditioning:** Yes**Gel Prime to Buffer:** No**Gel Selection:** Gel 1**Perform Prerun:** -5.0 kV, 60 sec.**Rinse:** No**Marker 1:** No**Rinse:** Tray: 3, Row: A, # Dips: 1**Sample Injection:** -5.0 kV, 30 sec.**Separation:** 70.0 min.**Tray Name:** Tray-1**Analysis Mode:** gDNA**NOTES**

Time Shift: Using configured: slope=0.00025, intercept=0.0

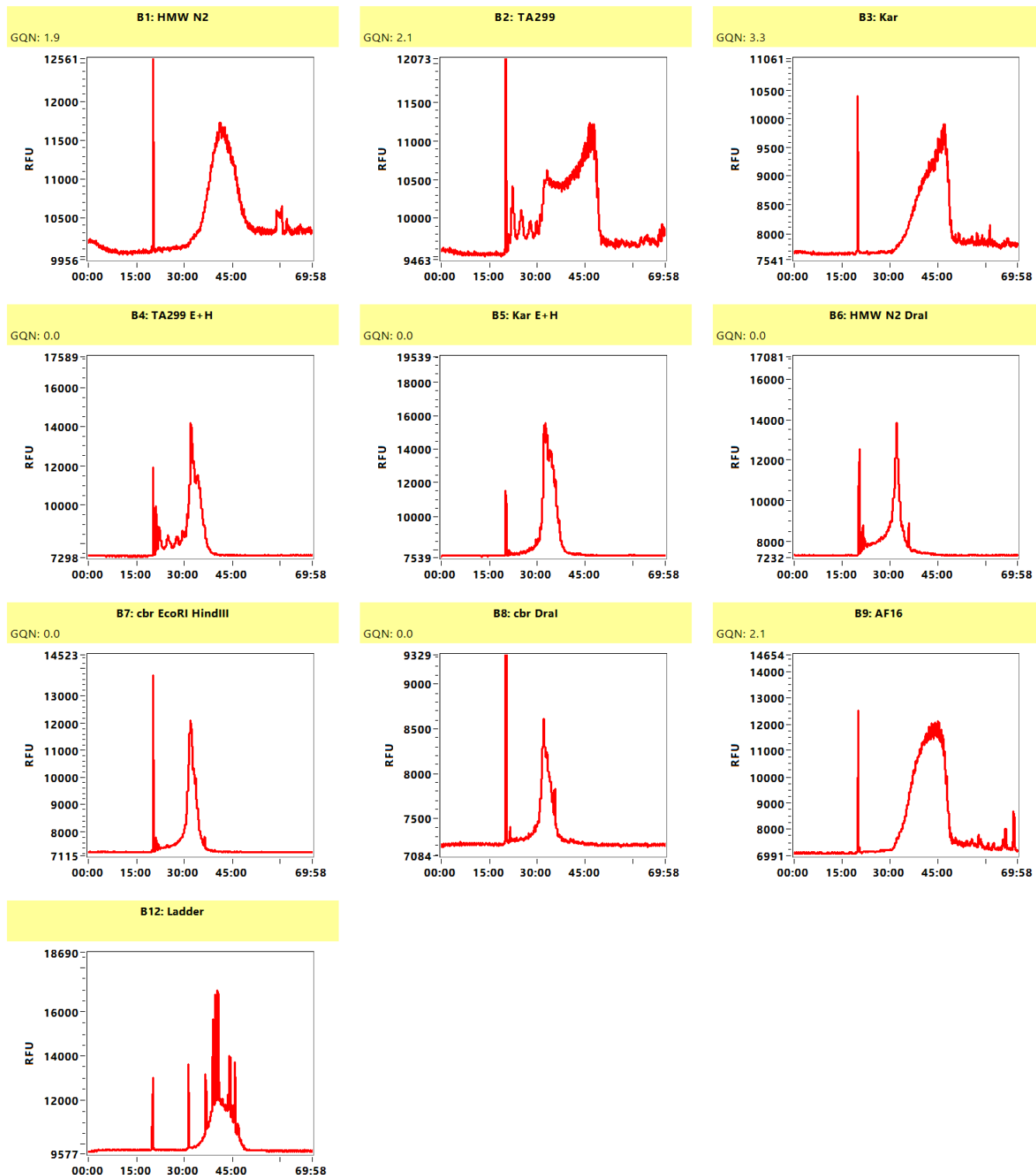
## Gel Image



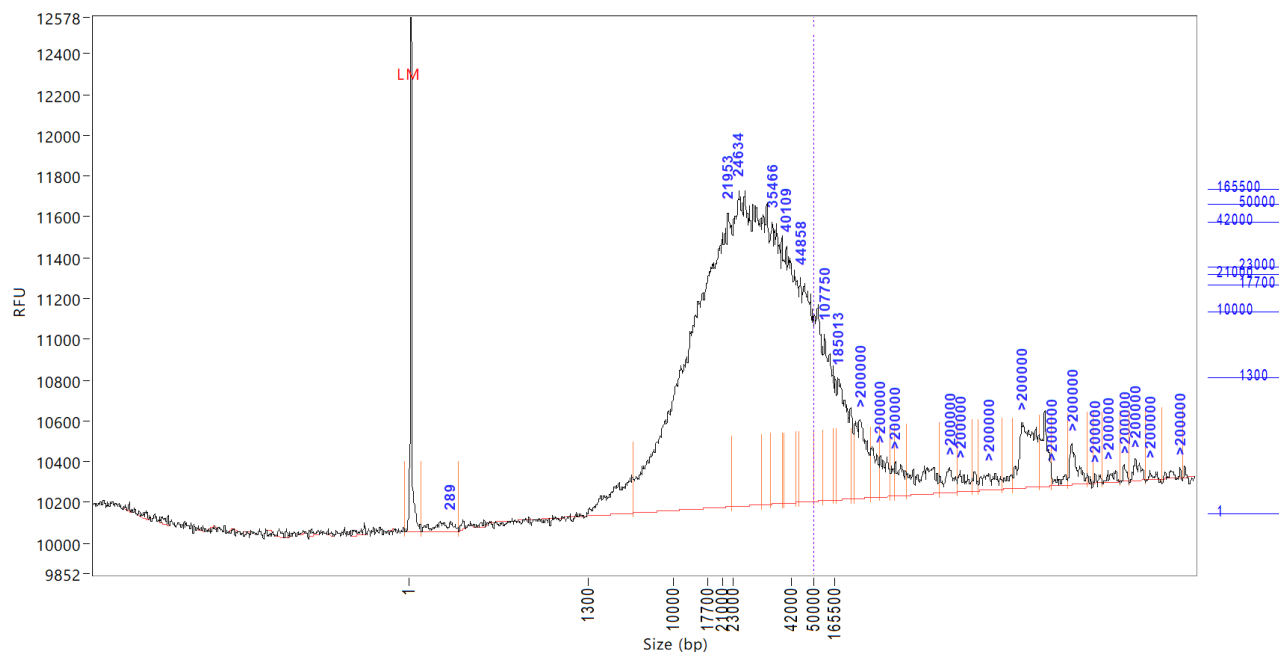
## GQN Summary

| Well | Sample ID         | GQN | Size Threshold<br>(bp) | Total Conc.<br>(ng/uL) |
|------|-------------------|-----|------------------------|------------------------|
| B1   | HMW N2            | 1.9 | 50000                  | 0.1347                 |
| B2   | TA299             | 2.1 | 50000                  | 0.0946                 |
| B3   | Kar               | 3.3 | 50000                  | 0.1629                 |
| B4   | TA299 E+H         | 0.0 | 50000                  | 0.1929                 |
| B5   | Kar E+H           | 0.0 | 50000                  | 0.3271                 |
| B6   | HMW N2 DraI       | 0.0 | 50000                  | 0.1198                 |
| B7   | cbr EcoRI HindIII | 0.0 | 50000                  | 0.1034                 |
| B8   | cbr DraI          | 0.0 | 50000                  | 0.0413                 |
| B9   | AF16              | 2.1 | 50000                  | 0.2778                 |
| B12  | Ladder            |     |                        |                        |

Filename and Data Path: C:\AATI\Data\2024 01 23\Tray-1 14-54-31\2024 01 23 14H 54M.raw



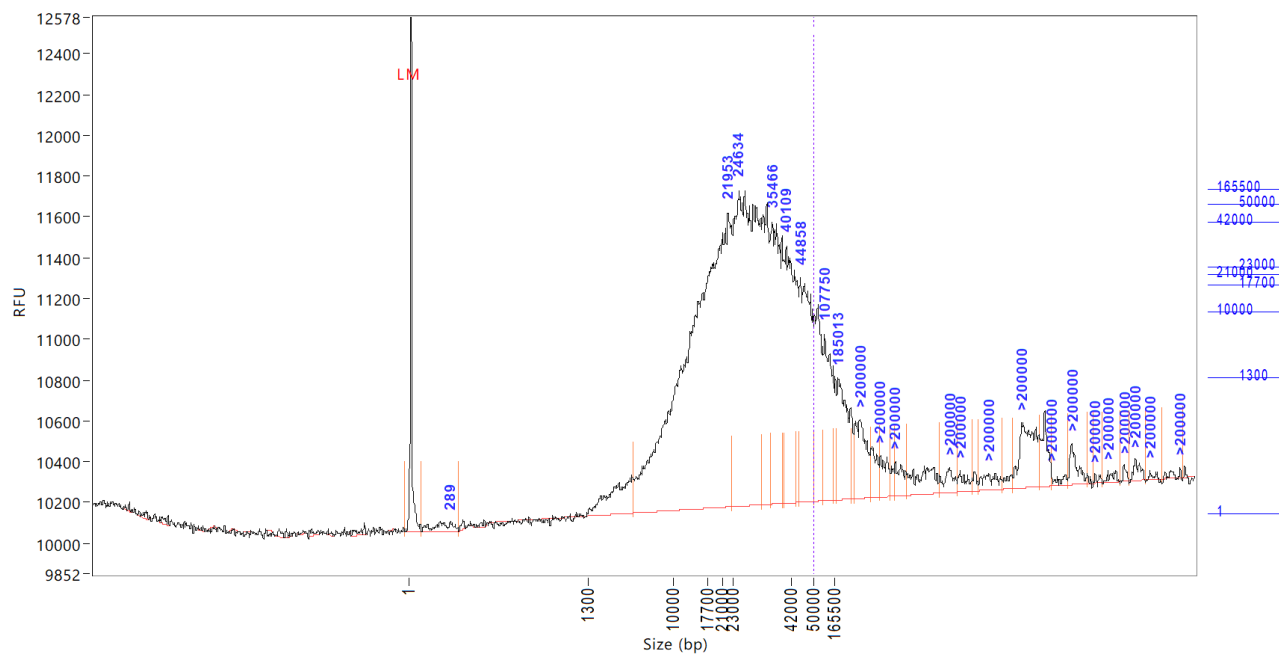
**Sample:** HMW N2  
**Well Location:** B1  
**Created:** 1/23/2024 3:11 PM



| Peak | Size (bp) | Conc. (ng/uL) | Rel. Conc. % (ng/uL) | Molarity (nmole/L) | From (bp) | To (bp) | CV%    | RFU  |
|------|-----------|---------------|----------------------|--------------------|-----------|---------|--------|------|
| 1    | 1 (LM)    | 0.0006        |                      | 0.3178             | 0         | 80      | 421.41 | 2730 |
| 2    | 289       | 0.0010        | 0.9                  | 0.0079             | 80        | 347     | 33.05  | 49   |
| 3    | 21953     | 0.0457        | 40.1                 | 0.0048             | 5894      | 22810   | 31.16  | 1439 |
| 4    | 24634     | 0.0248        | 21.8                 | 0.0015             | 22810     | 32286   | 10.23  | 1543 |
| 5    | 35466     | 0.0093        | 8.2                  | 0.0004             | 34865     | 39077   | 3.35   | 1381 |
| 6    | 40109     | 0.0074        | 6.5                  | 0.0003             | 39679     | 43525   | 2.69   | 1258 |
| 7    | 44858     | 0.0082        | 7.2                  | 0.0003             | 44382     | 49905   | 3.42   | 1097 |
| 8    | 107750    | 0.0039        | 3.4                  | 0.0000             | 101672    | 163980  | 13.98  | 816  |
| 9    | 185013    | 0.0038        | 3.3                  | 0.0000             | 176007    | >200000 | 11.63  | 594  |
| 10   | >200000   | 0.0026        | 2.3                  | 0.0000             | >200000   | >200000 | 8.54   | 388  |
| 11   | >200000   | 0.0009        | 0.8                  | 0.0000             | >200000   | >200000 | 4.28   | 203  |
| 12   | >200000   | 0.0007        | 0.7                  | 0.0000             | >200000   | >200000 | 4.06   | 167  |
| 13   | >200000   | 0.0006        | 0.5                  | 0.0000             | >200000   | >200000 | 3.23   | 124  |
| 14   | >200000   | 0.0004        | 0.3                  | 0.0000             | >200000   | >200000 | 2.69   | 108  |
| 15   | >200000   | 0.0006        | 0.5                  | 0.0000             | >200000   | >200000 | 3.57   | 83   |
| 16   | >200000   | 0.0025        | 2.2                  | 0.0000             | >200000   | >200000 | 3.15   | 319  |
| 17   | >200000   | 0.0002        | 0.1                  | 0.0000             | >200000   | >200000 | 1.88   | 66   |
| 18   | >200000   | 0.0006        | 0.6                  | 0.0000             | >200000   | >200000 | 1.71   | 198  |
| 19   | >200000   | 0.0001        | 0.1                  | 0.0000             | >200000   | >200000 | 0.80   | 45   |
| 20   | >200000   | 0.0001        | 0.1                  | 0.0000             | >200000   | >200000 | 1.18   | 54   |
| 21   | >200000   | 0.0001        | 0.1                  | 0.0000             | >200000   | >200000 | 0.45   | 79   |
| 22   | >200000   | 0.0003        | 0.2                  | 0.0000             | >200000   | >200000 | 1.02   | 104  |
| 23   | >200000   | 0.0001        | 0.1                  | 0.0000             | >200000   | >200000 | 0.93   | 48   |
| 24   | >200000   | 0.0001        | 0.1                  | 0.0000             | >200000   | >200000 | 1.38   | 50   |

Sample Peak Width (sec): 20    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
 Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 70  
 Manual Baseline Start (min): 25    Manual Baseline End (min): 70  
 Marker Peak Width (sec): 8    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
 Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
 Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
 Quantification Using: Ladder    Final Concentration (ng/uL): 0.0200    Dilution Factor: 10.0  
 Min. RFU for Data Processing: 1    Size Threshold (b.p.): 50000

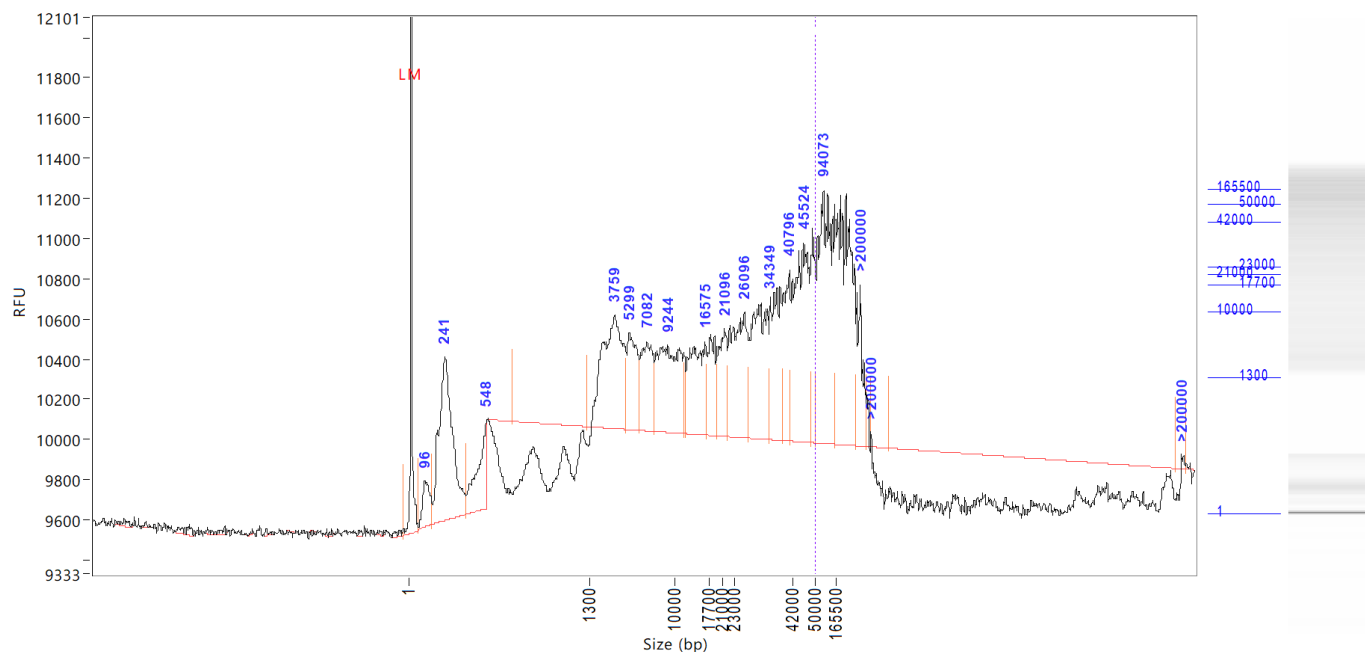
**Sample:** HMW N2  
**Well Location:** B1  
**Created:** 1/23/2024 3:11 PM



| Peak         | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV% | RFU |
|--------------|--------------|------------------|-------------------------|-----------------------|--------------|------------|-----|-----|
| TIC:         |              | 0.1139           |                         | ng/uL                 |              |            |     |     |
| TIM:         |              | 0.0154           |                         | nmole/L               |              |            |     |     |
| Total Conc.: |              | 0.1347           |                         | ng/uL                 |              |            |     |     |
| GQN:         |              | 1.9              |                         |                       |              |            |     |     |
| Threshold:   |              | 50000            |                         |                       |              |            |     |     |

Sample Peak Width (sec): 20    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 70  
Manual Baseline Start (min): 25    Manual Baseline End (min): 70  
Marker Peak Width (sec): 8    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder    Final Concentration (ng/uL): 0.0200    Dilution Factor: 10.0  
Min. RFU for Data Processing: 1    Size Threshold (b.p.): 50000

**Sample:** TA299  
**Well Location:** B2  
**Created:** 1/23/2024 3:11 PM

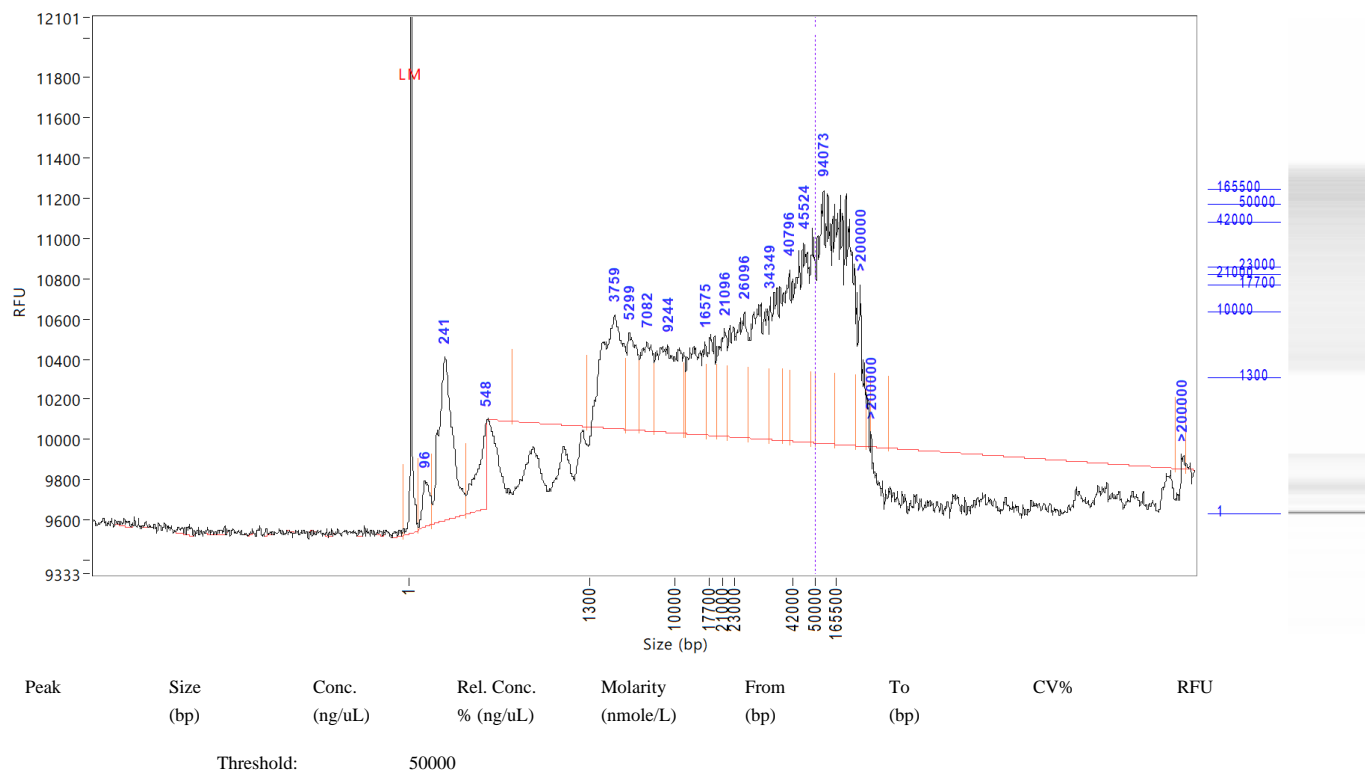


| Peak | Size (bp) | Conc. (ng/uL) | Rel. Conc. % (ng/uL) | Molarity (nmole/L) | From (bp) | To (bp) | CV%      | RFU  |
|------|-----------|---------------|----------------------|--------------------|-----------|---------|----------|------|
| 1    | 1 (LM)    | 0.0006        |                      | 3.9854             | 0         | 54      | -7731.90 | 3344 |
| 2    | 96        | 0.0019        | 2.4                  | 0.0281             | 54        | 153     | 21.11    | 232  |
| 3    | 241       | 0.0115        | 14.9                 | 0.0743             | 153       | 400     | 20.43    | 811  |
| 4    | 548       | 0.0037        | 4.8                  | 0.0124             | 400       | 739     | 8.65     | 443  |
| 5    | 3759      | 0.0081        | 10.5                 | 0.0039             | 1285      | 5002    | 26.07    | 563  |
| 6    | 5299      | 0.0031        | 4.1                  | 0.0009             | 5002      | 6299    | 6.64     | 480  |
| 7    | 7082      | 0.0035        | 4.5                  | 0.0008             | 6299      | 7839    | 6.23     | 444  |
| 8    | 9244      | 0.0064        | 8.3                  | 0.0011             | 7839      | 12015   | 11.94    | 433  |
| 9    | 16575     | 0.0043        | 5.6                  | 0.0005             | 12488     | 17108   | 9.11     | 465  |
| 10   | 21096     | 0.0024        | 3.1                  | 0.0002             | 19416     | 21667   | 3.20     | 533  |
| 11   | 26096     | 0.0056        | 7.2                  | 0.0004             | 21667     | 27557   | 7.28     | 624  |
| 12   | 34349     | 0.0060        | 7.8                  | 0.0003             | 27557     | 34435   | 6.38     | 682  |
| 13   | 40796     | 0.0027        | 3.4                  | 0.0001             | 38819     | 41312   | 1.83     | 849  |
| 14   | 45524     | 0.0074        | 9.6                  | 0.0003             | 41312     | 48191   | 4.48     | 991  |
| 15   | 94073     | 0.0083        | 10.7                 | 0.0001             | 53040     | 157901  | 28.67    | 1255 |
| 16   | >200000   | 0.0022        | 2.9                  | 0.0000             | >200000   | >200000 | 5.59     | 801  |
| 17   | >200000   | 0.0000        | 0.0                  | 0.0000             | >200000   | >200000 | 0.00     | 72   |
| 18   | >200000   | 0.0001        | 0.1                  | 0.0000             | >200000   | >200000 | 0.38     | 75   |

TIC: 0.0773 ng/uL  
TIM: 0.1234 nmole/L  
Total Conc.: 0.0946 ng/uL  
GQN: 2.1

Sample Peak Width (sec): 20    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 70  
Manual Baseline Start (min): 25    Manual Baseline End (min): 70  
Marker Peak Width (sec): 8    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder    Final Concentration (ng/uL): 0.0200    Dilution Factor: 10.0  
Min. RFU for Data Processing: 1    Size Threshold (b.p.): 50000

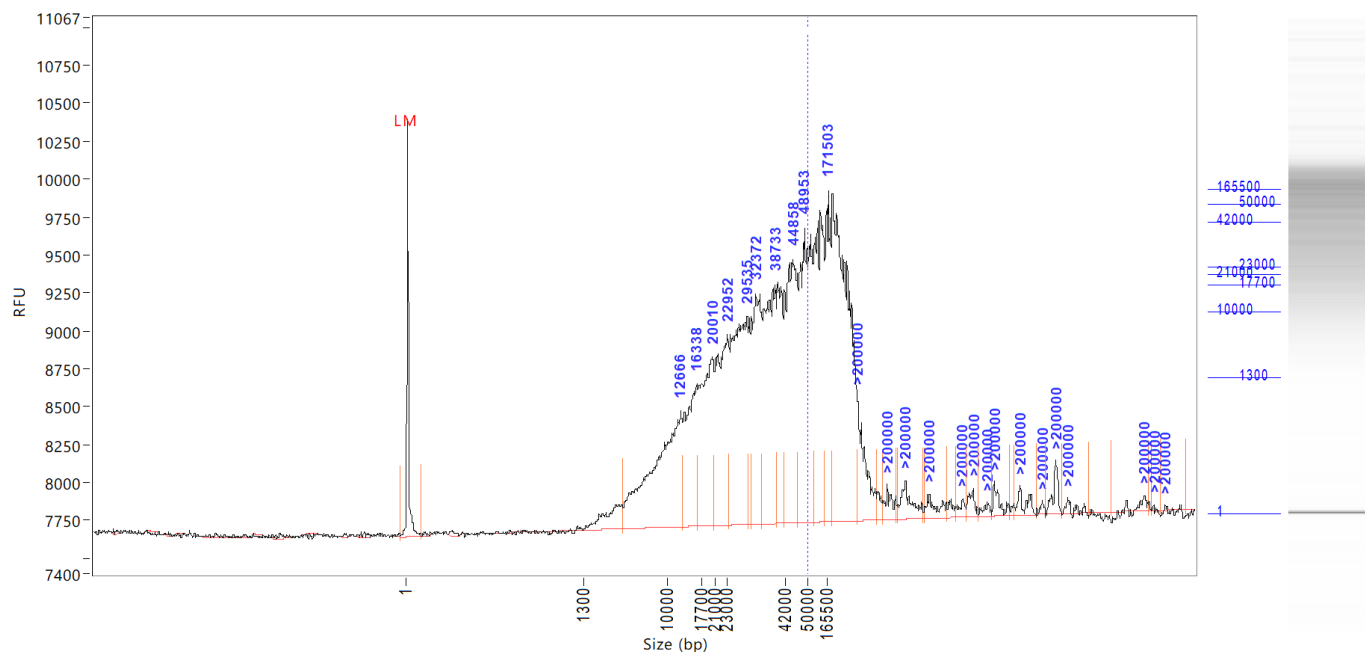
**Sample:** TA299  
**Well Location:** B2  
**Created:** 1/23/2024 3:11 PM



Sample Peak Width (sec): 20    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 70  
Manual Baseline Start (min): 25    Manual Baseline End (min): 70  
Marker Peak Width (sec): 8    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder    Final Concentration (ng/uL): 0.0200    Dilution Factor: 10.0  
Min. RFU for Data Processing: 1    Size Threshold (b.p.): 50000

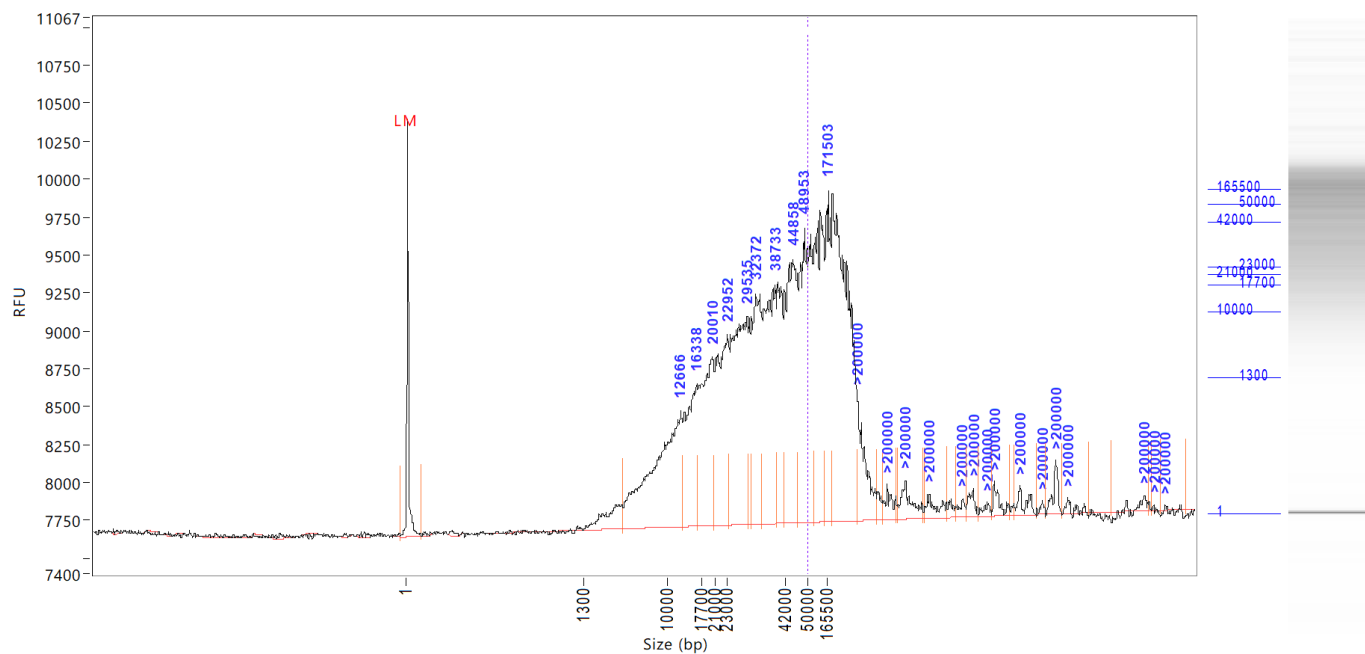


Sample: Kar  
Well Location: B3  
Created: 1/23/2024 3:11 PM



| Peak | Size (bp) | Conc. (ng/uL) | Rel. Conc. % (ng/uL) | Molarity (nmole/L) | From (bp) | To (bp) | CV%    | RFU  |
|------|-----------|---------------|----------------------|--------------------|-----------|---------|--------|------|
| 1    | 1 (LM)    | 0.0006        |                      | 0.3178             | 0         | 103     | 575.80 | 2750 |
| 2    | 12666     | 0.0162        | 13.2                 | 0.0029             | 5272      | 13199   | 22.48  | 762  |
| 3    | 16338     | 0.0076        | 6.1                  | 0.0008             | 13199     | 16575   | 6.62   | 937  |
| 4    | 20010     | 0.0100        | 8.1                  | 0.0009             | 16575     | 20604   | 6.40   | 1112 |
| 5    | 22952     | 0.0102        | 8.3                  | 0.0008             | 20604     | 23689   | 3.80   | 1256 |
| 6    | 29535     | 0.0138        | 11.2                 | 0.0008             | 23689     | 29878   | 6.74   | 1370 |
| 7    | 32372     | 0.0085        | 6.9                  | 0.0004             | 30996     | 34435   | 3.05   | 1518 |
| 8    | 38733     | 0.0118        | 9.6                  | 0.0005             | 34435     | 39249   | 3.84   | 1572 |
| 9    | 44858     | 0.0127        | 10.3                 | 0.0005             | 41570     | 46762   | 3.45   | 1732 |
| 10   | 48953     | 0.0144        | 11.7                 | 0.0004             | 46762     | 87994   | 22.02  | 1937 |
| 11   | 171503    | 0.0076        | 6.2                  | 0.0001             | 148783    | 192518  | 7.55   | 2178 |
| 12   | >200000   | 0.0035        | 2.9                  | 0.0000             | >200000   | >200000 | 8.20   | 814  |
| 13   | >200000   | 0.0008        | 0.7                  | 0.0000             | >200000   | >200000 | 4.17   | 233  |
| 14   | >200000   | 0.0013        | 1.1                  | 0.0000             | >200000   | >200000 | 5.92   | 253  |
| 15   | >200000   | 0.0008        | 0.7                  | 0.0000             | >200000   | >200000 | 4.97   | 157  |
| 16   | >200000   | 0.0003        | 0.3                  | 0.0000             | >200000   | >200000 | 1.69   | 120  |
| 17   | >200000   | 0.0005        | 0.4                  | 0.0000             | >200000   | >200000 | 1.74   | 185  |
| 18   | >200000   | 0.0003        | 0.2                  | 0.0000             | >200000   | >200000 | 1.81   | 92   |
| 19   | >200000   | 0.0006        | 0.5                  | 0.0000             | >200000   | >200000 | 2.53   | 229  |
| 20   | >200000   | 0.0006        | 0.5                  | 0.0000             | >200000   | >200000 | 2.40   | 192  |
| 21   | >200000   | 0.0001        | 0.1                  | 0.0000             | >200000   | >200000 | 0.88   | 89   |
| 22   | >200000   | 0.0007        | 0.6                  | 0.0000             | >200000   | >200000 | 1.24   | 352  |
| 23   | >200000   | 0.0003        | 0.2                  | 0.0000             | >200000   | >200000 | 2.45   | 102  |
| 24   | >200000   | 0.0003        | 0.2                  | 0.0000             | >200000   | >200000 | 2.22   | 101  |
| 25   | >200000   | 0.0000        | 0.0                  | 0.0000             | >200000   | >200000 | 0.37   | 41   |

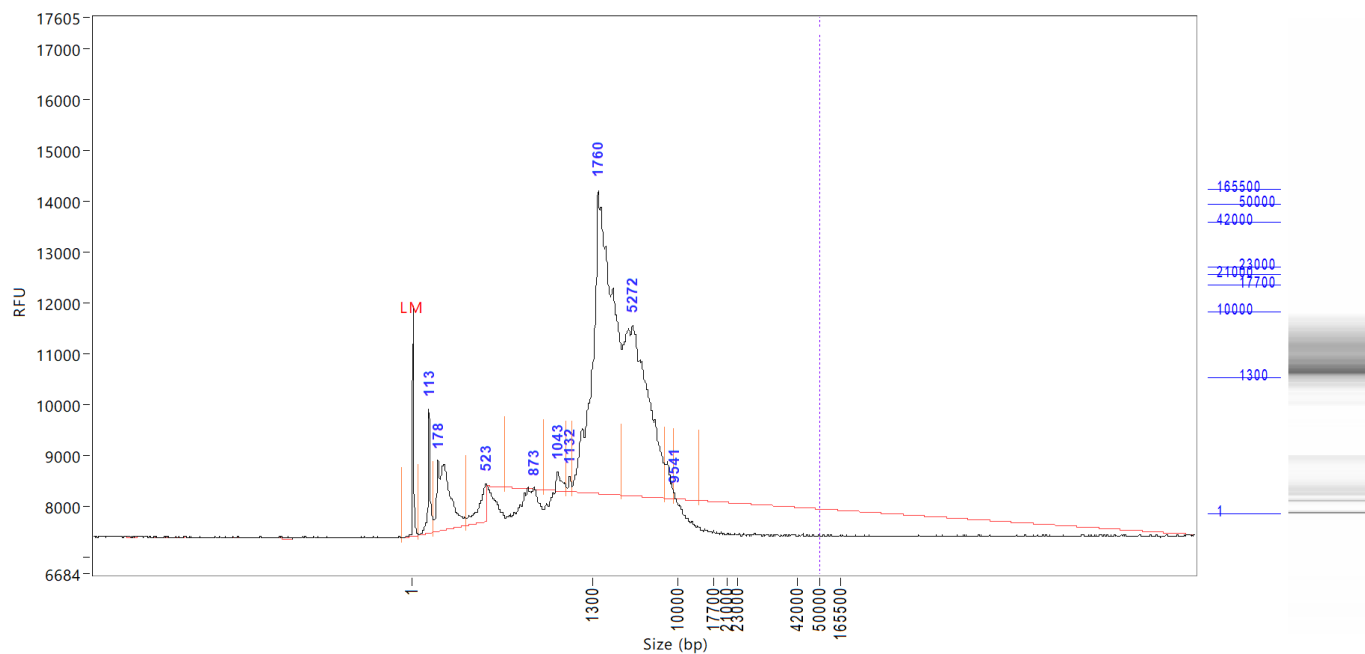
Sample Peak Width (sec): 20    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
 Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 70  
 Manual Baseline Start (min): 25    Manual Baseline End (min): 70  
 Marker Peak Width (sec): 8    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
 Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
 Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
 Quantification Using: Ladder    Final Concentration (ng/uL): 0.0200    Dilution Factor: 10.0  
 Min. RFU for Data Processing: 1    Size Threshold (b.p.): 50000

**Sample:** Kar**Well Location:** B3**Created:** 1/23/2024 3:11 PM

| Peak | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV%     | RFU     |
|------|--------------|------------------|-------------------------|-----------------------|--------------|------------|---------|---------|
| 26   | >200000      | 0.0000           | 0.0000                  | 0.0                   | 0.0000       |            | >200000 | >200000 |
|      | TIC:         | 0.1232           |                         | ng/uL                 |              |            |         |         |
|      | TIM:         | 0.0081           |                         | nmole/L               |              |            |         |         |
|      | Total Conc.: | 0.1629           |                         | ng/uL                 |              |            |         |         |
|      | GQN:         | 3.3              |                         |                       |              |            |         |         |
|      | Threshold:   | 50000            |                         |                       |              |            |         |         |

Sample Peak Width (sec): 20    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 70  
Manual Baseline Start (min): 25    Manual Baseline End (min): 70  
Marker Peak Width (sec): 8    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder    Final Concentration (ng/uL): 0.0200    Dilution Factor: 10.0  
Min. RFU for Data Processing: 1    Size Threshold (b.p.): 50000

**Sample:** TA299 E+H  
**Well Location:** B4  
**Created:** 1/23/2024 3:11 PM



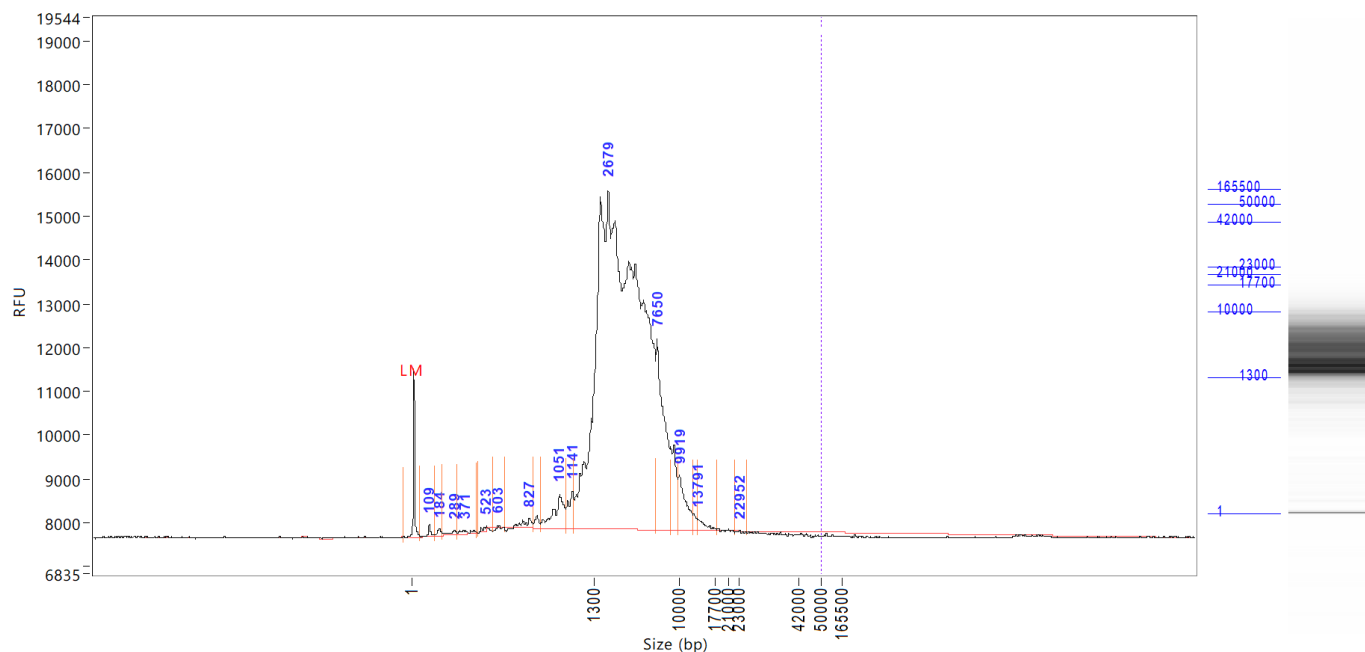
| Peak | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV%     | RFU  |
|------|--------------|------------------|-------------------------|-----------------------|--------------|------------|---------|------|
| 1    | 1 (LM)       | 0.0006           |                         | 3.9854                | 0            | 40         | -685.72 | 4509 |
| 2    | 113          | 0.0062           | 3.2                     | 0.0907                | 40           | 147        | 14.13   | 2447 |
| 3    | 178          | 0.0197           | 10.3                    | 0.1388                | 147          | 389        | 22.50   | 1395 |
| 4    | 523          | 0.0060           | 3.2                     | 0.0206                | 389          | 666        | 8.12    | 750  |
| 5    | 873          | 0.0000           | 0.0                     | 0.0001                | 666          | 944        | 2.54    | 33   |
| 6    | 1043         | 0.0018           | 0.9                     | 0.0028                | 944          | 1114       | 2.15    | 379  |
| 7    | 1132         | 0.0006           | 0.3                     | 0.0009                | 1114         | 1149       | 0.74    | 311  |
| 8    | 1760         | 0.0964           | 50.4                    | 0.0663                | 1149         | 4219       | 37.62   | 5936 |
| 9    | 5272         | 0.0603           | 31.6                    | 0.0168                | 4219         | 8595       | 18.95   | 3343 |
| 10   | 9541         | 0.0000           | 0.0                     | 0.0000                | 9541         | 14502      | 0.16    | 77   |

TIC: 0.1911 ng/uL  
TIM: 0.3370 nmole/L  
Total Conc.: 0.1929 ng/uL

GQN: 0.0  
Threshold: 50000

Sample Peak Width (sec): 20    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 70  
Manual Baseline Start (min): 25    Manual Baseline End (min): 70  
Marker Peak Width (sec): 8    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder    Final Concentration (ng/uL): 0.0200    Dilution Factor: 10.0  
Min. RFU for Data Processing: 1    Size Threshold (b.p.): 50000

**Sample:** Kar E+H  
**Well Location:** B5  
**Created:** 1/23/2024 3:11 PM

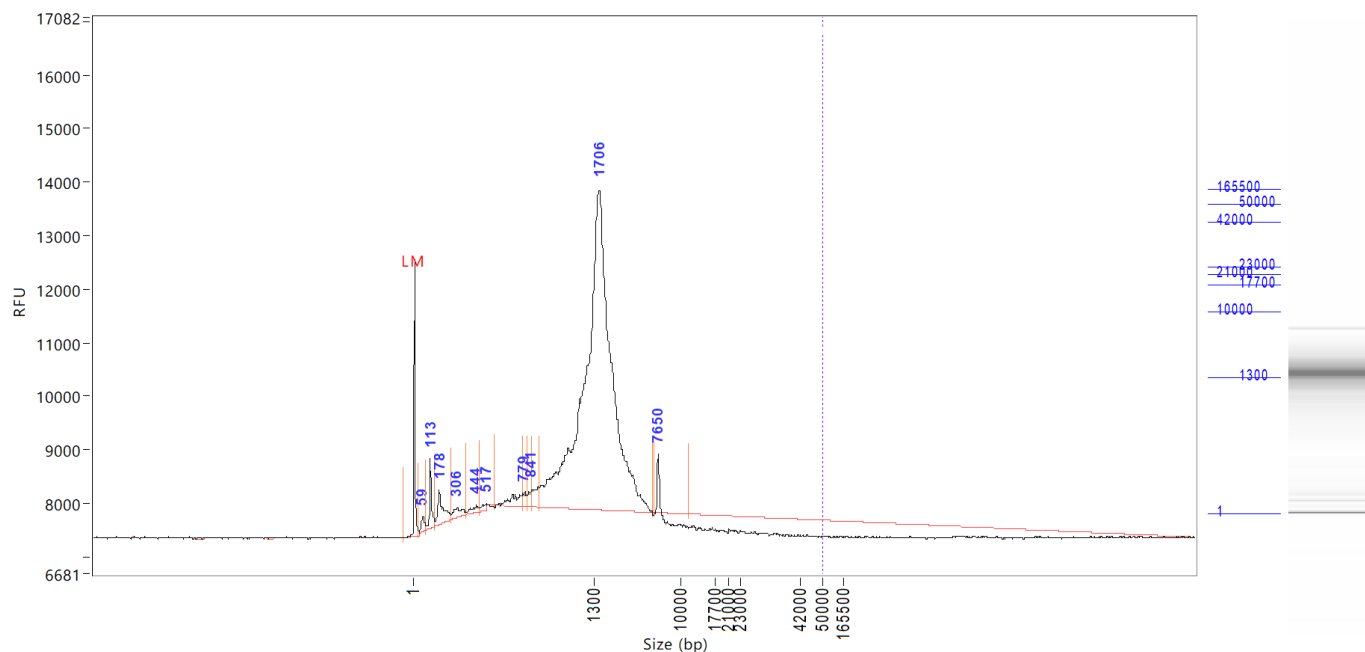


| Peak | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV%      | RFU  |
|------|--------------|------------------|-------------------------|-----------------------|--------------|------------|----------|------|
| 1    | 1 (LM)       | 0.0006           |                         | 3.9854                | 0            | 50         | -1132.39 | 3845 |
| 2    | 109          | 0.0008           | 0.3                     | 0.0122                | 50           | 155        | 14.45    | 280  |
| 3    | 184          | 0.0007           | 0.2                     | 0.0064                | 155          | 213        | 7.15     | 155  |
| 4    | 289          | 0.0008           | 0.2                     | 0.0049                | 213          | 318        | 10.98    | 103  |
| 5    | 371          | 0.0010           | 0.3                     | 0.0042                | 318          | 458        | 10.16    | 90   |
| 6    | 523          | 0.0005           | 0.2                     | 0.0016                | 471          | 569        | 2.92     | 128  |
| 7    | 603          | 0.0001           | 0.0                     | 0.0002                | 569          | 662        | 1.99     | 49   |
| 8    | 827          | 0.0018           | 0.6                     | 0.0038                | 662          | 867        | 5.03     | 219  |
| 9    | 1051         | 0.0073           | 2.3                     | 0.0118                | 919          | 1095       | 4.49     | 779  |
| 10   | 1141         | 0.0041           | 1.3                     | 0.0060                | 1095         | 1155       | 1.55     | 855  |
| 11   | 2679         | 0.2661           | 83.4                    | 0.1125                | 1155         | 7515       | 47.44    | 7719 |
| 12   | 7650         | 0.0275           | 8.6                     | 0.0056                | 7515         | 9027       | 5.38     | 4358 |
| 13   | 9919         | 0.0069           | 2.2                     | 0.0011                | 9784         | 12903      | 8.48     | 1246 |
| 14   | 13791        | 0.0014           | 0.4                     | 0.0002                | 13732        | 18295      | 7.78     | 277  |
| 15   | 22952        | 0.0000           | 0.0                     | 0.0000                | 22143        | 25150      | 0.09     | 6    |

TIC: 0.3191 ng/uL  
TIM: 0.1703 nmole/L  
Total Conc.: 0.3271 ng/uL

GQN: 0.0  
Threshold: 50000

Sample Peak Width (sec): 20 Sample Min Peak Height: 50 Sample Baseline V to V?: Y Sample Baseline V to V pts: 3  
Sample Filter: Binomial # of Pts for Filter: 3 Sample Start Region (min): 0 Sample End Region (min): 70  
Manual Baseline Start (min): 25 Manual Baseline End (min): 70  
Marker Peak Width (sec): 8 Marker Min Peak Height: 500 Marker Baseline V to V?: N Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder Final Concentration (ng/uL): 0.0200 Dilution Factor: 10.0  
Min. RFU for Data Processing: 1 Size Threshold (b.p.): 50000

**Sample:** HMW N2 DraI**Well Location:** B6**Created:** 1/23/2024 3:11 PM

| Peak | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV%      | RFU  |
|------|--------------|------------------|-------------------------|-----------------------|--------------|------------|----------|------|
| 1    | 1 (LM)       | 0.0006           |                         | 3.9854                | 0            | 35         | -2406.98 | 5175 |
| 2    | 59           | 0.0010           | 0.8                     | 0.0259                | 35           | 86         | 19.07    | 263  |
| 3    | 113          | 0.0025           | 2.1                     | 0.0357                | 86           | 149        | 9.97     | 1292 |
| 4    | 178          | 0.0033           | 2.8                     | 0.0278                | 149          | 266        | 14.51    | 635  |
| 5    | 306          | 0.0014           | 1.2                     | 0.0075                | 266          | 377        | 9.25     | 180  |
| 6    | 444          | 0.0008           | 0.7                     | 0.0032                | 377          | 471        | 6.19     | 134  |
| 7    | 517          | 0.0005           | 0.4                     | 0.0016                | 471          | 576        | 2.97     | 116  |
| 8    | 779          | 0.0021           | 1.8                     | 0.0048                | 576          | 787        | 6.25     | 246  |
| 9    | 841          | 0.0010           | 0.8                     | 0.0019                | 814          | 850        | 1.31     | 328  |
| 10   | 1706         | 0.1040           | 88.2                    | 0.0871                | 900          | 7136       | 55.74    | 5960 |
| 11   | 7650         | 0.0013           | 1.1                     | 0.0003                | 7352         | 11541      | 1.29     | 1086 |

TIC: 0.1179 ng/uL  
TIM: 0.1958 nmole/L  
Total Conc.: 0.1198 ng/uL

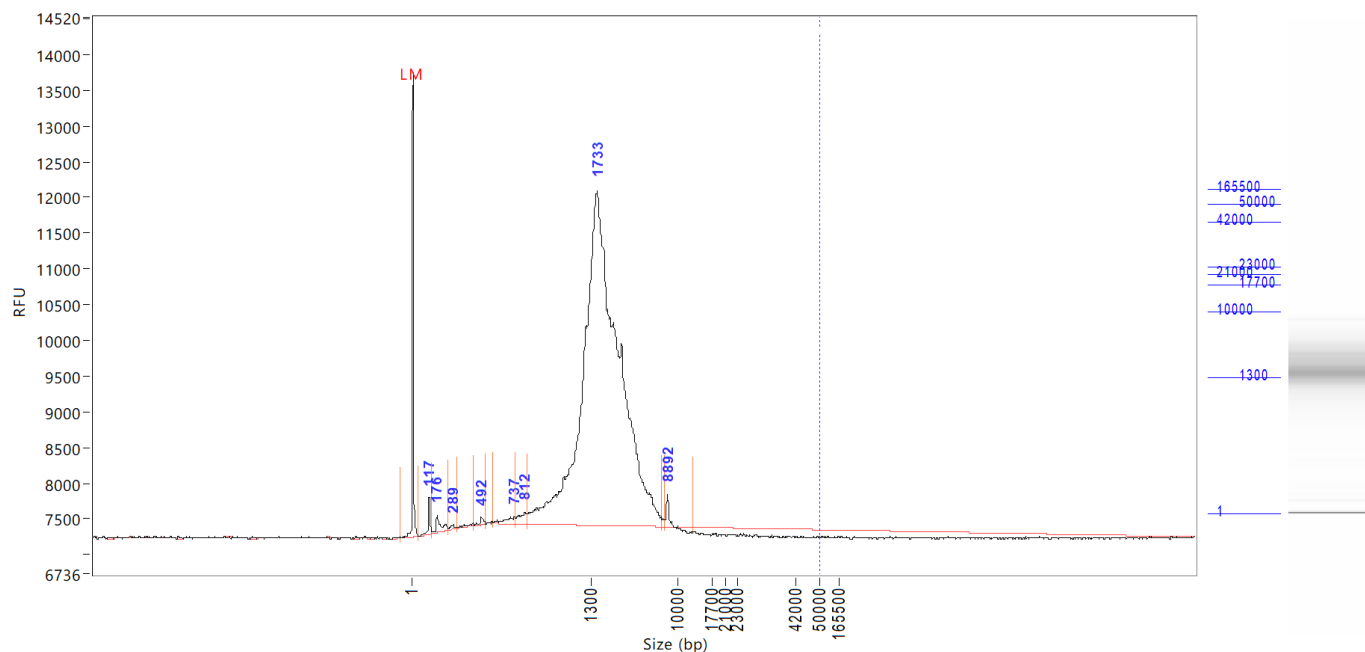
GQN: 0.0  
Threshold: 50000

Sample Peak Width (sec): 20 Sample Min Peak Height: 50 Sample Baseline V to V?: Y Sample Baseline V to V pts: 3  
Sample Filter: Binomial # of Pts for Filter: 3 Sample Start Region (min): 0 Sample End Region (min): 70  
Manual Baseline Start (min): 25 Manual Baseline End (min): 70  
Marker Peak Width (sec): 8 Marker Min Peak Height: 500 Marker Baseline V to V?: N Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder Final Concentration (ng/uL): 0.0200 Dilution Factor: 10.0  
Min. RFU for Data Processing: 1 Size Threshold (b.p.): 50000

Sample: cbr EcoRI HindIII

Well Location: B7

Created: 1/23/2024 3:11 PM



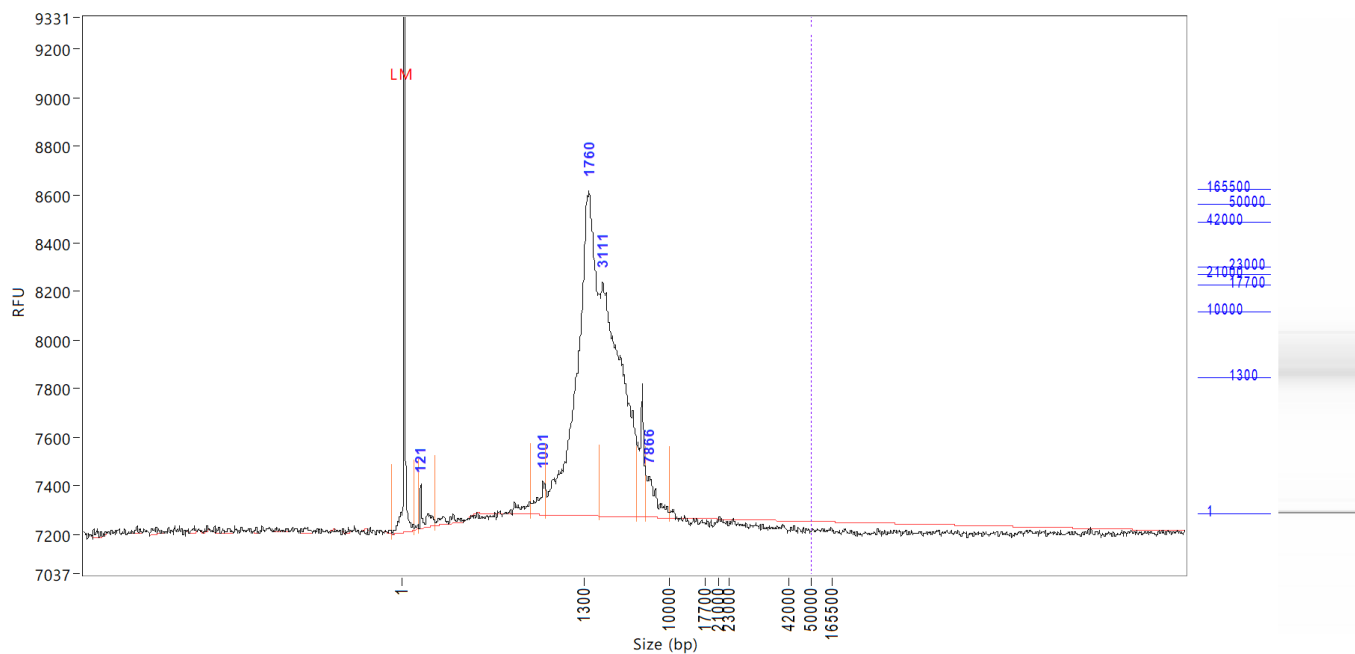
| Peak | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV%     | RFU  |
|------|--------------|------------------|-------------------------|-----------------------|--------------|------------|---------|------|
| 1    | 1 (LM)       | 0.0006           |                         | 3.9854                | 0            | 46         | -586.48 | 6506 |
| 2    | 117          | 0.0008           | 0.8                     | 0.0118                | 46           | 140        | 12.77   | 514  |
| 3    | 176          | 0.0010           | 1.0                     | 0.0084                | 140          | 259        | 14.11   | 248  |
| 4    | 289          | 0.0002           | 0.2                     | 0.0013                | 259          | 326        | 5.84    | 60   |
| 5    | 492          | 0.0003           | 0.3                     | 0.0011                | 444          | 530        | 3.79    | 111  |
| 6    | 737          | 0.0007           | 0.7                     | 0.0018                | 584          | 745        | 6.59    | 104  |
| 7    | 812          | 0.0009           | 0.9                     | 0.0019                | 745          | 831        | 3.17    | 170  |
| 8    | 1733         | 0.0985           | 95.5                    | 0.0627                | 831          | 8379       | 61.82   | 4676 |
| 9    | 8892         | 0.0007           | 0.6                     | 0.0001                | 8595         | 13140      | 2.07    | 455  |

TIC: 0.1031 ng/uL  
TIM: 0.0891 nmole/L  
Total Conc.: 0.1034 ng/uL

GQN: 0.0  
Threshold: 50000

Sample Peak Width (sec): 20 Sample Min Peak Height: 50 Sample Baseline V to V?: Y Sample Baseline V to V pts: 3  
Sample Filter: Binomial # of Pts for Filter: 3 Sample Start Region (min): 0 Sample End Region (min): 70  
Manual Baseline Start (min): 25 Manual Baseline End (min): 70  
Marker Peak Width (sec): 8 Marker Min Peak Height: 500 Marker Baseline V to V?: N Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder Final Concentration (ng/uL): 0.0200 Dilution Factor: 10.0  
Min. RFU for Data Processing: 1 Size Threshold (b.p.): 50000

Sample: cbr DraI  
Well Location: B8  
Created: 1/23/2024 3:11 PM



| Peak | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV%      | RFU  |
|------|--------------|------------------|-------------------------|-----------------------|--------------|------------|----------|------|
| 1    | 1 (LM)       | 0.0006           |                         | 3.9854                | 0            | 73         | -6059.59 | 4595 |
| 2    | 121          | 0.0007           | 1.7                     | 0.0071                | 109          | 228        | 21.97    | 180  |
| 3    | 1001         | 0.0009           | 2.2                     | 0.0014                | 919          | 1030       | 3.17     | 138  |
| 4    | 1760         | 0.0209           | 53.7                    | 0.0206                | 1030         | 2895       | 31.79    | 1338 |
| 5    | 3111         | 0.0153           | 39.3                    | 0.0057                | 2895         | 6704       | 23.62    | 963  |
| 6    | 7866         | 0.0012           | 3.0                     | 0.0002                | 7569         | 10060      | 7.68     | 170  |

TIC: 0.0389 ng/uL  
TIM: 0.0350 nmole/L  
Total Conc.: 0.0413 ng/uL

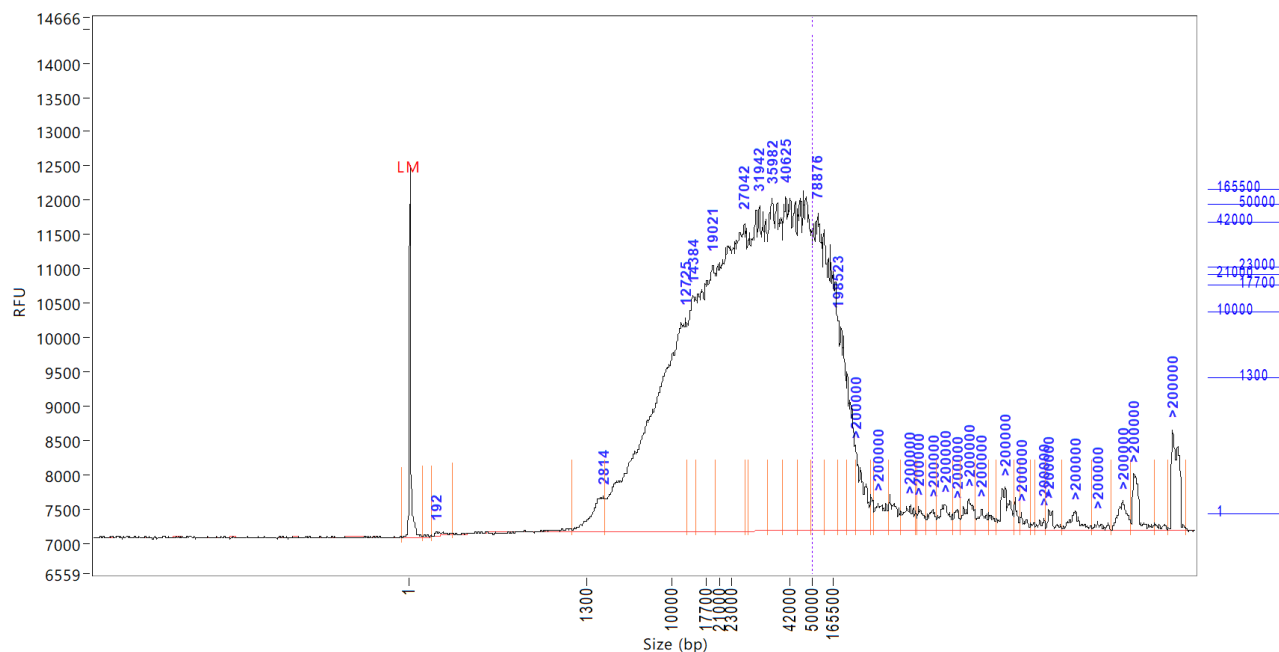
GQN: 0.0  
Threshold: 50000

Sample Peak Width (sec): 20 Sample Min Peak Height: 50 Sample Baseline V to V?: Y Sample Baseline V to V pts: 3  
Sample Filter: Binomial # of Pts for Filter: 3 Sample Start Region (min): 0 Sample End Region (min): 70  
Manual Baseline Start (min): 25 Manual Baseline End (min): 70  
Marker Peak Width (sec): 8 Marker Min Peak Height: 500 Marker Baseline V to V?: N Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder Final Concentration (ng/uL): 0.0200 Dilution Factor: 10.0  
Min. RFU for Data Processing: 1 Size Threshold (b.p.): 50000

Sample: AF16

Well Location: B9

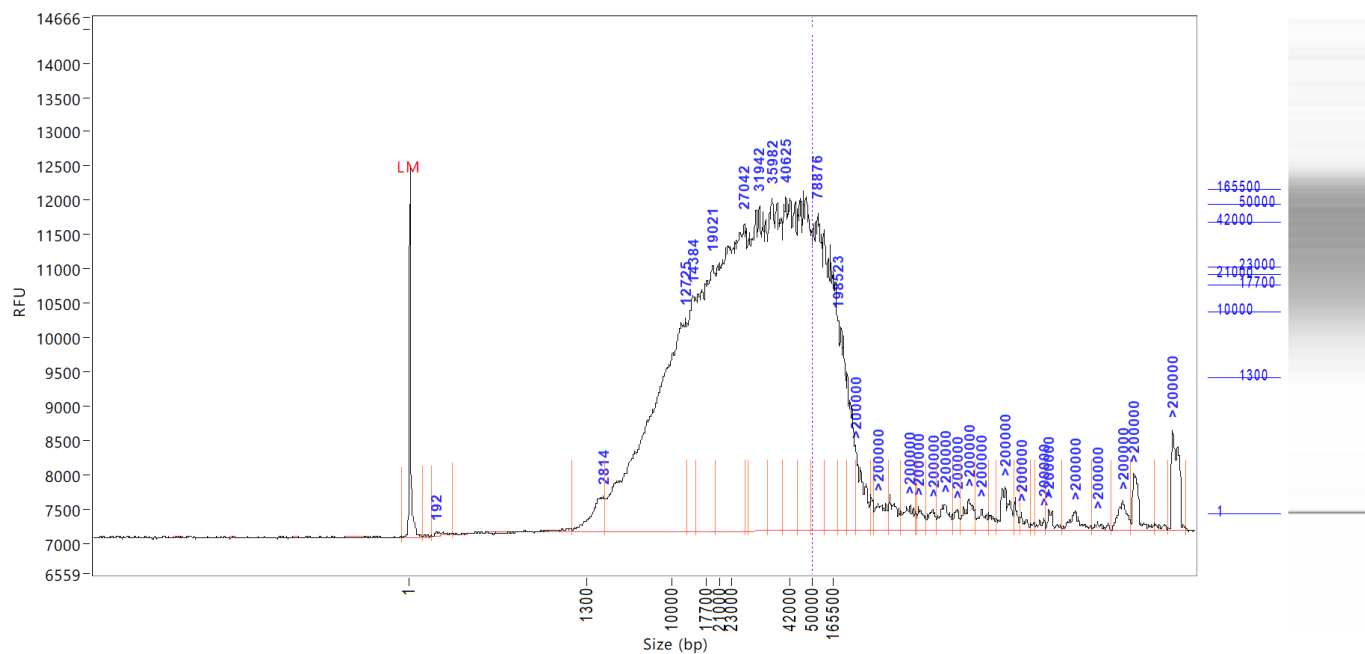
Created: 1/23/2024 3:11 PM



| Peak | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV%    | RFU  |
|------|--------------|------------------|-------------------------|-----------------------|--------------|------------|--------|------|
| 1    | 1 (LM)       | 0.0006           |                         | 0.4584                | 0            | 94         | 654.34 | 5415 |
| 2    | 192          | 0.0003           | 0.1                     | 0.0024                | 169          | 320        | 15.12  | 61   |
| 3    | 2814         | 0.0034           | 1.4                     | 0.0026                | 1187         | 3084       | 28.38  | 508  |
| 4    | 12725        | 0.0488           | 20.4                    | 0.0093                | 3084         | 13081      | 29.17  | 3107 |
| 5    | 14384        | 0.0116           | 4.8                     | 0.0013                | 13081        | 15331      | 4.64   | 3429 |
| 6    | 19021        | 0.0239           | 10.0                    | 0.0022                | 15331        | 19878      | 7.50   | 3874 |
| 7    | 27042        | 0.0400           | 16.7                    | 0.0028                | 19878        | 27471      | 9.24   | 4485 |
| 8    | 31942        | 0.0259           | 10.8                    | 0.0014                | 28417        | 34521      | 5.63   | 4741 |
| 9    | 35982        | 0.0211           | 8.8                     | 0.0009                | 34521        | 39421      | 3.86   | 4857 |
| 10   | 40625        | 0.0221           | 9.2                     | 0.0009                | 39421        | 44763      | 3.68   | 4877 |
| 11   | 78876        | 0.0185           | 7.7                     | 0.0004                | 49333        | 122948     | 29.12  | 4620 |
| 12   | 198523       | 0.0065           | 2.7                     | 0.0000                | 198523       | >200000    | 6.54   | 3048 |
| 13   | >200000      | 0.0028           | 1.2                     | 0.0000                | >200000      | >200000    | 7.25   | 1177 |
| 14   | >200000      | 0.0014           | 0.6                     | 0.0000                | >200000      | >200000    | 5.95   | 402  |
| 15   | >200000      | 0.0010           | 0.4                     | 0.0000                | >200000      | >200000    | 3.69   | 371  |
| 16   | >200000      | 0.0006           | 0.2                     | 0.0000                | >200000      | >200000    | 2.25   | 348  |
| 17   | >200000      | 0.0006           | 0.3                     | 0.0000                | >200000      | >200000    | 2.20   | 314  |
| 18   | >200000      | 0.0011           | 0.4                     | 0.0000                | >200000      | >200000    | 3.03   | 384  |
| 19   | >200000      | 0.0004           | 0.2                     | 0.0000                | >200000      | >200000    | 1.31   | 310  |
| 20   | >200000      | 0.0011           | 0.5                     | 0.0000                | >200000      | >200000    | 2.52   | 471  |
| 21   | >200000      | 0.0006           | 0.3                     | 0.0000                | >200000      | >200000    | 1.99   | 315  |
| 22   | >200000      | 0.0015           | 0.6                     | 0.0000                | >200000      | >200000    | 2.20   | 625  |
| 23   | >200000      | 0.0003           | 0.1                     | 0.0000                | >200000      | >200000    | 1.32   | 266  |
| 24   | >200000      | 0.0002           | 0.1                     | 0.0000                | >200000      | >200000    | 1.22   | 182  |
| 25   | >200000      | 0.0004           | 0.2                     | 0.0000                | >200000      | >200000    | 1.59   | 304  |

Sample Peak Width (sec): 20    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
 Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 70  
 Manual Baseline Start (min): 25    Manual Baseline End (min): 70  
 Marker Peak Width (sec): 8    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
 Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
 Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
 Quantification Using: Ladder    Final Concentration (ng/uL): 0.0200    Dilution Factor: 10.0  
 Min. RFU for Data Processing: 1    Size Threshold (b.p.): 50000



**Sample:** AF16**Well Location:** B9**Created:** 1/23/2024 3:11 PM

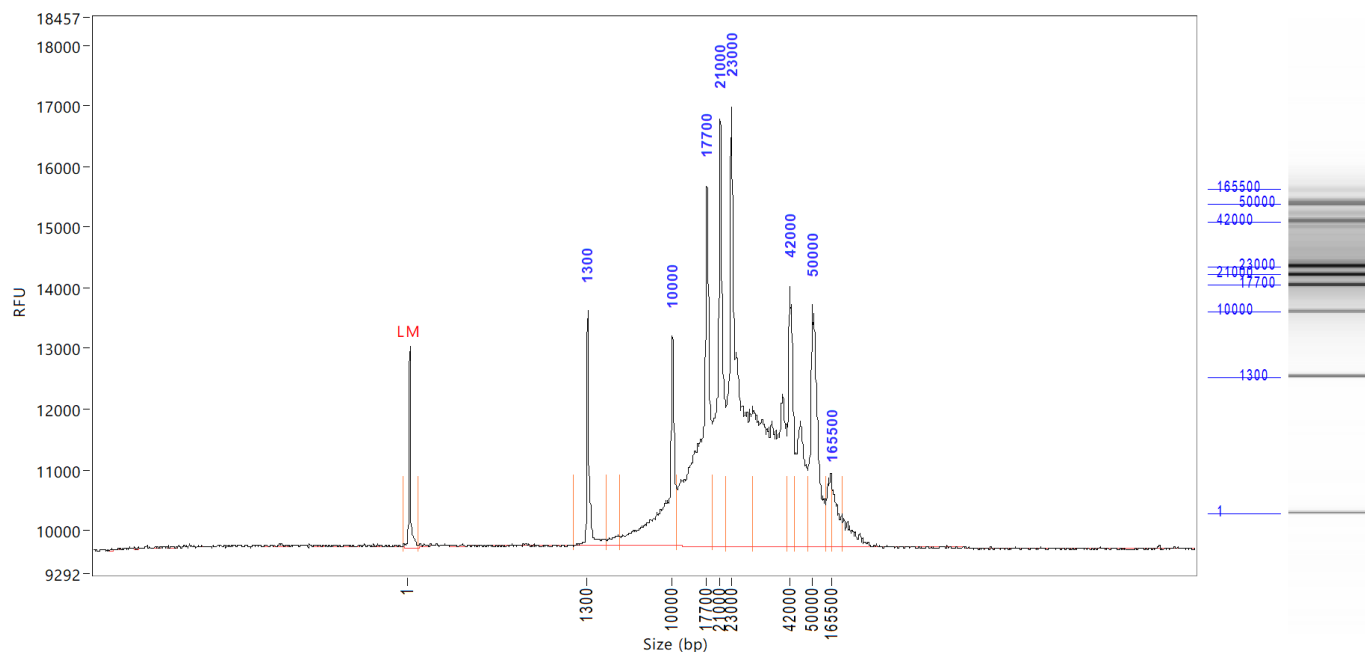
| Peak | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV%     | RFU  |
|------|--------------|------------------|-------------------------|-----------------------|--------------|------------|---------|------|
| 26   | >200000      | 0.0007           |                         | 0.3                   | 0.0000       |            | >200000 | 2.39 |
| 27   | >200000      | 0.0002           |                         | 0.1                   | 0.0000       |            | >200000 | 1.70 |
| 28   | >200000      | 0.0009           |                         | 0.4                   | 0.0000       |            | >200000 | 1.41 |
| 29   | >200000      | 0.0012           |                         | 0.5                   | 0.0000       |            | >200000 | 1.54 |
| 30   | >200000      | 0.0023           |                         | 0.9                   | 0.0000       |            | >200000 | 0.83 |

TIC: 0.2395 ng/uL  
 TIM: 0.0244 nmole/L  
 Total Conc.: 0.2778 ng/uL

GQN: 2.1  
 Threshold: 50000

Sample Peak Width (sec): 20    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
 Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 70  
 Manual Baseline Start (min): 25    Manual Baseline End (min): 70  
 Marker Peak Width (sec): 8    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
 Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
 Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
 Quantification Using: Ladder    Final Concentration (ng/uL): 0.0200    Dilution Factor: 10.0  
 Min. RFU for Data Processing: 1    Size Threshold (b.p.): 50000

**Sample:** Ladder  
**Well Location:** B12  
**Created:** 1/23/2024 3:11 PM



| Peak | Size<br>(bp) | Conc.<br>(ng/uL) | Rel. Conc.<br>% (ng/uL) | Molarity<br>(nmole/L) | From<br>(bp) | To<br>(bp) | CV%    | RFU  |
|------|--------------|------------------|-------------------------|-----------------------|--------------|------------|--------|------|
| 1    | 1 (LM)       | 0.0006           |                         | 0.4584                | 0            | 67         | 653.86 | 3308 |
| 2    | 1300         | 0.0073           | 4.7                     | 0.0081                | 1197         | 3192       | 27.70  | 3860 |
| 3    | 10000        | 0.0185           | 11.9                    | 0.0035                | 4678         | 11008      | 17.75  | 3454 |
| 4    | 17700        | 0.0350           | 22.5                    | 0.0036                | 11008        | 19021      | 13.93  | 5924 |
| 5    | 21000        | 0.0234           | 15.1                    | 0.0019                | 19021        | 22000      | 3.63   | 7045 |
| 6    | 23000        | 0.0411           | 26.4                    | 0.0027                | 22000        | 30136      | 9.61   | 7247 |
| 7    | 42000        | 0.0114           | 7.3                     | 0.0004                | 41140        | 43906      | 1.67   | 4290 |
| 8    | 50000        | 0.0155           | 10.0                    | 0.0004                | 48572        | 129027     | 31.13  | 3977 |
| 9    | 165500       | 0.0030           | 1.9                     | 0.0000                | 165500       | >200000    | 9.26   | 949  |

TIC: 0.1553 ng/uL  
TIM: 0.0206 nmole/L  
Total Conc.: 0.2000 ng/uL

Sample Peak Width (sec): 20 Sample Min Peak Height: 2000 Sample Baseline V to V?: Y Sample Baseline V to V pts: 3  
Sample Filter: Binomial # of Pts for Filter: 3 Sample Start Region (min): 0 Sample End Region (min): 70  
Manual Baseline Start (min): 25 Manual Baseline End (min): 70  
Marker Peak Width (sec): 8 Marker Min Peak Height: 500 Marker Baseline V to V?: N Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 1300, 10000, 17700, 21000, 23000, 42000, 50000, 165500  
Quantification Using: Ladder Final Concentration (ng/uL): 0.0200 Dilution Factor: 10.0  
Min. RFU for Data Processing: 1 Size Threshold (b.p.): 50000

**Sample:** Ladder  
**Well Location:** B12  
**Created:** 1/23/2024 3:11 PM  
**Fit Type:** Point to Point

Calibration Curve

