

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...r\2100 expert\data\2016-06-10\2016-06-10\_001\_HK-2\_QCPCR.xad

Created: 6/10/2016 9:25:47 AM  
Modified: 6/10/2016 10:09:01 AM

**Electrophoresis File Run Summary**

Instrument Information:

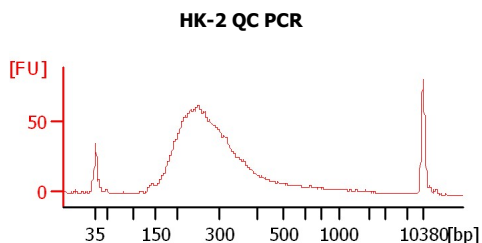
Instrument Name: DE13701086                      Firmware: C.01.069  
Serial#: DE13701086                                Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
  
Assay Class: High Sensitivity DNA Assay  
Version: 1.03  
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:  
Reagent Kit Lot #:  
Chip Comments:



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**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| HK-2 QC PCR |                | <input type="checkbox"/> | ✓      |             |              |              |
| Ladder      |                | <input type="checkbox"/> | ✓      |             |              |              |

**Chip Lot #****Reagent Kit Lot #****Chip Comments :**

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**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 32  
Maximum Visible Range [s] : 138  
Start Analysis Time Range [s] : 33  
End Analysis Time Range [s] : 137.5  
Ladder Concentration [pg/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

Integration Start Time [s] : 33.05  
Integration End Time [s] : 137  
Slope Threshold : 0.8  
Height Threshold [FU] : 5  
Area Threshold : 0.1  
Width Threshold [s] : 0.6  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

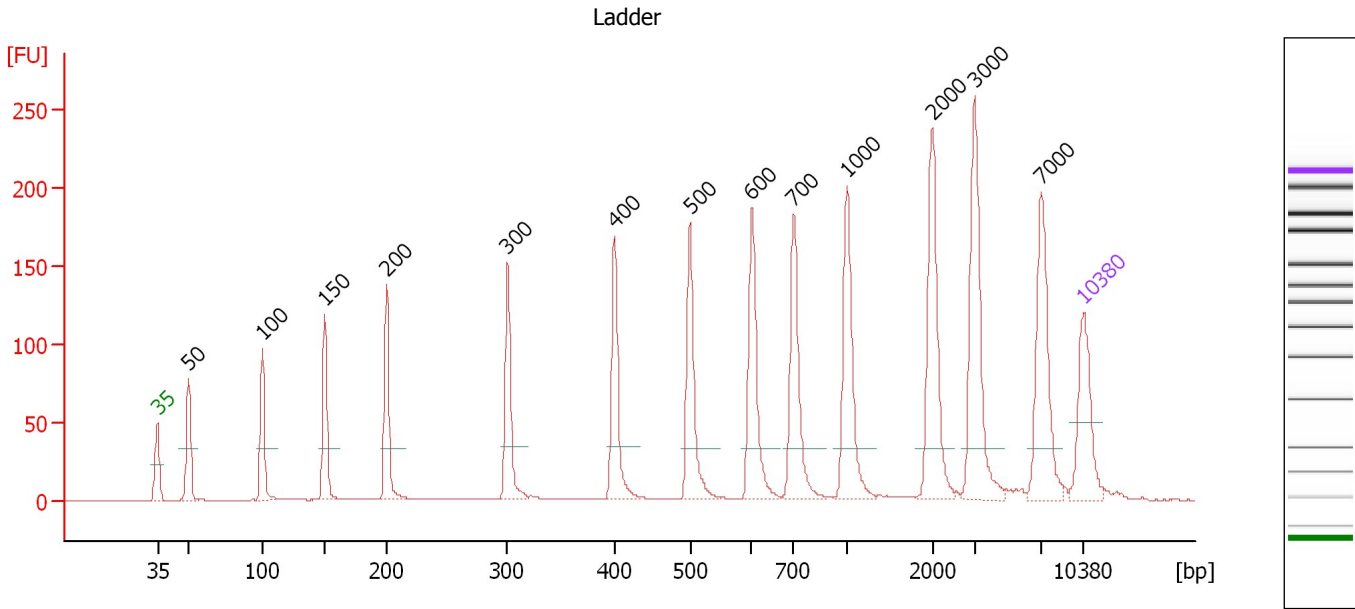
**Ladder**

| Ladder Peak | Size  | Area |
|-------------|-------|------|
| 1           | 35    | 160  |
| 2           | 50    | 210  |
| 3           | 100   | 208  |
| 4           | 150   | 221  |
| 5           | 200   | 242  |
| 6           | 300   | 270  |
| 7           | 400   | 305  |
| 8           | 500   | 306  |
| 9           | 600   | 336  |
| 10          | 700   | 321  |
| 11          | 1000  | 366  |
| 12          | 2000  | 413  |
| 13          | 3000  | 411  |
| 14          | 7000  | 400  |
| 15          | 10380 | 214  |

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

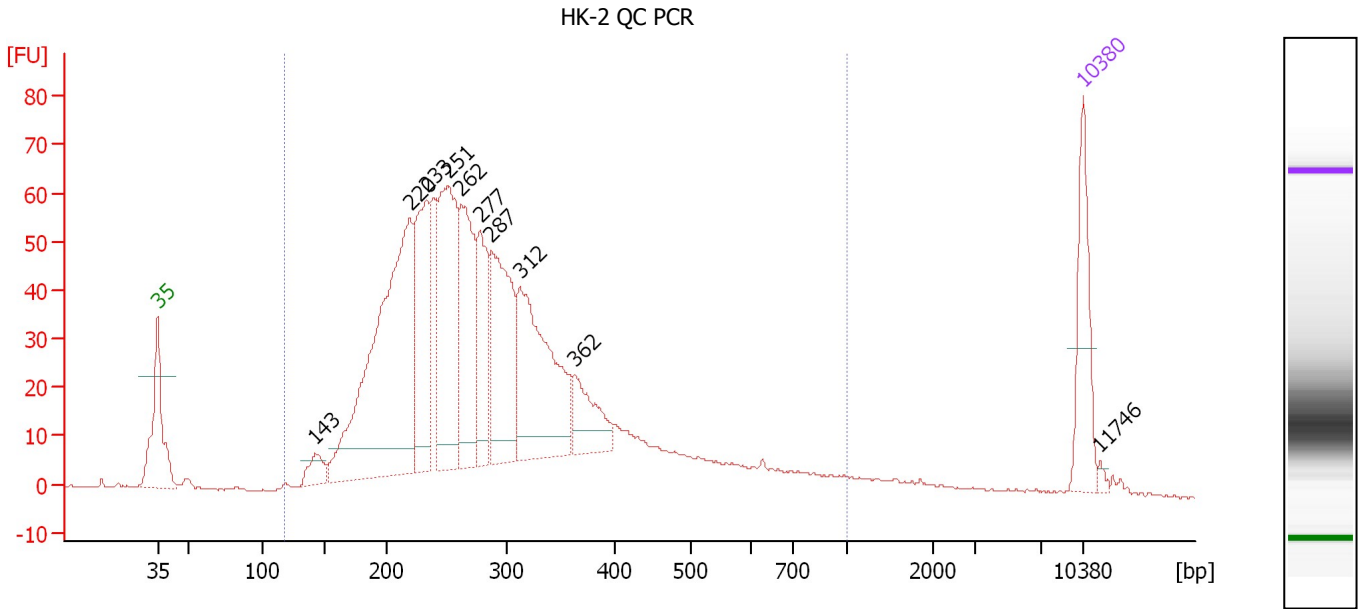
**Peak table for Ladder**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 50        | 150.00        | 4,545.5           | Ladder Peak  | 45.34                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 50.93                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 55.64                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 60.32                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 69.48                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 77.54                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 83.27                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 87.94                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 91.10                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 95.13                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 101.59                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.80                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.84                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : HK-2 QC PCR**

Number of peaks found: 10                      Corr. Area 1: 1,342.7  
 Noise: 0.2

**Peak table for sample 11 : HK-2 QC PCR**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 143       | 32.37         | 344.2             |              | 54.94                      |
| 3    | 220       | 545.41        | 3,763.8           |              | 62.11                      |
| 4    | 233       | 190.06        | 1,236.1           |              | 63.34                      |
| 5    | 251       | 260.73        | 1,576.0           |              | 64.96                      |
| 6    | 262       | 187.75        | 1,086.1           |              | 65.99                      |
| 7    | 277       | 120.56        | 659.6             |              | 67.36                      |
| 8    | 287       | 198.91        | 1,051.7           |              | 68.25                      |
| 9    | 312       | 252.75        | 1,229.2           |              | 70.41                      |
| 10   | 362       | 68.94         | 288.5             |              | 74.49                      |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 12   | 11,746    | 0.00          | 0.0               |              | 114.28                     |

**Region table for sample 11 : HK-2 QC PCR**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 117       | 1,000   | 302               | 1,342.7    | 14,384.4          | 2,474.19             | 97         | 39.8                        |

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**Gel Image**

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**Run Logbook**

| Description  | Number | Source     | Category | Sub Category | Time                  | Time Zone                           | User     | Host     |
|--|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 12)   |        | Instrument | Run      |              | 6/10/2016 10:07:06 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-10\2016-06-10_001.xad) |        | Instrument | Run      |              | 6/10/2016 9:25:52 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B  |        | Instrument | Run      |              | 6/10/2016 9:25:52 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :   |        | Instrument | Run      |              | 6/10/2016 9:25:52 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies  |        | Instrument | Run      |              | 6/10/2016 9:25:52 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086   |        | Instrument | Run      |              | 6/10/2016 9:25:52 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069  |        | Instrument | Run      |              | 6/10/2016 9:25:52 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode  |        | Instrument | Run      |              | 6/10/2016 9:25:52 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |