

# **Customers Product Feedback**

Product name: FastGene<sup>TM</sup> RNA Basic Kit (FG-80050, FG-80250) Manufacturer: Nippon Genetics Co. Ltd Application: Nippon Genetics Co. Ltd RNA isolation of Neuro 2a cells (mouse derived neuroblastoma) Analysis of purified RNA by Real Time PCR (qPCR)

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## Method



20 µl of 1 reaction) QPCR reagent: THUNDERBIRD SYBR qPCR Mix (TOYOBO) QPCR Instrument: Applied Biosystems 7300 Real-Time PCR System

#### Result

Yield and purity

|            |   | yie     | eld       | purity   |          |  |
|------------|---|---------|-----------|----------|----------|--|
| RNA sample |   | (μg)    | Mean (µg) | A260/280 | A260/230 |  |
| Qiagen     | 1 | 17.6625 | 18.7547   | 2.05     | 2.31     |  |
|            | 2 | 18.4535 |           | 2.05     | 2.47     |  |
|            | 3 | 20.1480 |           | 2.04     | 2.50     |  |
| FastGene™  | 1 | 18.9745 | 19.8202   | 2.08     | 2.33     |  |
|            | 2 | 21.4340 |           | 2.06     | 2.49     |  |
|            | 3 | 19.0520 |           | 2.07     | 2.42     |  |

Conclusion: There is just a little difference between both kits in regard to yield and purity



## qPCR result 1: actin

| Sample    |   | Ct      | Mean    | Mean Ct | StdDev Ct | P value |
|-----------|---|---------|---------|---------|-----------|---------|
| Qiagen    | 1 | 16.1606 | 16.1369 | 16.3551 | 0.29728   | 0.11140 |
|           |   | 16.2475 |         |         |           |         |
|           |   | 16.0027 |         |         |           |         |
|           | 2 | 16.2128 | 16.2347 |         |           |         |
|           |   | 16.3102 |         |         |           |         |
|           |   | 16.1810 |         |         |           |         |
|           | 3 | 16.7193 | 16.6937 |         |           |         |
|           |   | 16.5803 |         |         |           |         |
|           |   | 16.7815 |         |         |           |         |
| FastGene™ | 1 | 15.9163 | 15.8943 | 15.8970 | 0.05795   |         |
|           |   | 15.8641 |         |         |           |         |
|           |   | 15.9024 |         |         |           |         |
|           | 2 | 15.9028 | 15.9563 |         |           |         |
|           |   | 15.8711 |         |         |           |         |
|           |   | 16.0950 |         |         |           |         |
|           | S | 15.9139 | 15.8405 |         |           |         |
|           |   | 15.8597 |         |         |           |         |
|           |   | 15.7479 |         |         |           |         |

### qPCR result 2: Gene A

| Sample    |   | Ct      | Mean    | Mean Ct | StdDev Ct | P value |
|-----------|---|---------|---------|---------|-----------|---------|
| Qiagen    |   | 21.7528 | 21.7298 | 21.9913 | 0.34464   | 0.17405 |
|           | 1 | 21.5308 |         |         |           |         |
|           |   | 21.9058 |         |         |           |         |
|           |   | 22.3860 | 22.3819 |         |           |         |
|           | 2 | 22.5230 |         |         |           |         |
|           |   | 22.2366 |         |         |           |         |
|           |   | 21.5057 | 21.8623 |         |           |         |
|           | 3 | 22.2444 |         |         |           |         |
|           |   | 21.8369 |         |         |           |         |
| FastGene™ | 1 | 21.4406 | 21.4551 | 21.5940 | 0.13235   |         |
|           |   | 21.5040 |         |         |           |         |
|           |   | 21.4208 |         |         |           |         |
|           | 2 | 21.2879 | 21.6081 |         |           |         |
|           |   | 21.8181 |         |         |           |         |
|           |   | 21.7182 |         |         |           |         |
|           | 3 | 21.9397 | 21.7187 |         |           |         |
|           |   | 21.5256 |         |         |           |         |
|           |   | 21.6908 |         |         |           |         |

Conclusion: In comparison with the Qiagen RNeasy kit, the results of qPCR show little difference (P> 0.05).

#### <Customers comment>

We have used Qiagen kits so far, but the FastGene<sup>™</sup> RNA Basic Kit from Nippon Genetics is very convenient to use and yield and puritiy are even a little bit better.



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