



MIAME Compliance Information for LRGC Affymetrix Experiments

(Note: The following documents the LRGC portion of the MIAME compliant information required. For more information on the complete requirements, please visit <http://www.mged.org/Workgroups/MIAME/miame.html>.)

1. Sample Description

| MIAME Guideline | Description | Documentation |
|------------------------|---|---|
| Labelling Protocol | How the RNA was labelled | http://www.affymetrix.com/support/downloads/manuals/expression_analysis_technical_manual.pdf |
| Hybridization Protocol | How the hybridization performed | http://www.affymetrix.com/support/downloads/manuals/expression_analysis_technical_manual.pdf |
| QC – Starting RNA | Agilent 2100 Bioanalyzer Electropherogram | Attach image or gel from file on ftp site. |
| QC - Test3 Array | GAPDH 3'/5' Ratio | Ratios < 3.0 |
| | B-Actin 3'/5' Value | Ratios < 3.0 |
| | BIOB | Present or absent (should be present) |
| | BIOC | Present or absent (should be present) |
| | BIOD | Present or absent (should be present) |
| | CREX | Present or absent (should be present) |
| | Are the values ascending | Ascending order |
| QC – Genome Array | GAPDH 3'/5' Ratio | Ratios < 3.0 |
| | B-Actin 3'/5' Value | Ratios < 3.0 |
| | BIOB | Present or absent (should be present) |
| | BIOC | Present or absent (should be present) |
| | BIOD | Present or absent (should be present) |
| | CREX | Present or absent (should be present) |
| | Are the values ascending | Ascending order |

2. Data

| MIAME Guideline | Description | Documentation |
|-------------------------|---------------------------|--|
| Generation | Hardware | Affymetrix Hybridization Oven 640 Affymetrix Fluidics Station 450 Affymetrix GeneChip Scanner 3000 |
| | Image Analysis Software | GCOS1.4 – absolute analysis https://www.affymetrix.com/support/file_download.affx?onloadforward=/support/downloads/manuals/gcos_manual.zip (GCOS User's Guide, Version 1.2) User Defined Target Value: 150 All Probes Normalization: 1 Or AGCC v1.1 http://www.affymetrix.com/products_services/software/specific/command_console_software.affx#1_1 |
| Normalization QC | Scaling Factors | Within 3 fold of each other |
| | % of genes called present | Similar |
| Background and Q | Average Background | < 150.0 |
| | Raw Q | Similar |
| Image Visual Inspection | Bubbles/scratches/other | Anything of note |
| | Grid Corners Aligned | Yes or No |

3. Array Design

| MIAME Guideline | Description | |
|-----------------|-----------------------|---|
| Name of array | Name of GeneChip used | Found in report and experiment files |
| Description | URL to Affymetrix | http://www.affymetrix.com/products/arrays/index.affx |