

## Supplementary Tables 4, 5, 9

Table 4

|                      | <b>All peaks</b> |       | <b>Wt only</b> |      | <b>WT vs RER 0.1-0.8</b> |       | <b>WT vs RER 0.8-1.8</b> |       | <b>ChIPSEQ/μarray</b> |      |
|----------------------|------------------|-------|----------------|------|--------------------------|-------|--------------------------|-------|-----------------------|------|
|                      | 2994 peaks       |       | 2400 peaks     |      | 457 peaks                |       | 137 peaks                |       | 138 peaks             |      |
| <b>peak position</b> | no. of peaks     | %     | no. of peaks   | %    | no. of peaks             | %     | no. of peaks             | %     | no. of peaks          | %    |
| 3' of tscpt end      | 478              | 16    | 376            | 15.6 | 66                       | 14.2  | 34                       | 24.8  | 17                    | 12.3 |
| exon (UTR), 1+2      | 115              | 3.8   | 105            | 4.4  | 9                        | 2     | 1                        | 0.73  | 4                     | 2.9  |
| exon 1               | 72               | 2.4   | 62             | 2.5  | 5                        | 0.87  | 6                        | 4.38  | 0                     | 0    |
| exons >1             | 55               | 1.86  | 50             | 2.1  | 6                        | 1.31  | 0                        | 0     | 0                     | 0    |
| intron 1             | 540              | 18    | 433            | 18   | 85                       | 19.12 | 21                       | 15.3  | 31                    | 22.5 |
| introns>1            | 504              | 16.8  | 398            | 16.5 | 85                       | 18.6  | 22                       | 16.06 | 27                    | 19.5 |
| 5' of tscpt start    |                  |       |                |      |                          |       |                          |       |                       |      |
| up tp 5kb            | 463              | 15.45 | 377            | 15.7 | 77                       | 16.8  | 9                        | 6.57  | 23                    | 16.7 |
| >5kb                 | 767              | 25.5  | 599            | 24.9 | 124                      | 27.1  | 44                       | 32.1  | 36                    | 26.7 |

Table 5

| <b>Processes for all genes (2037)</b> | no. of genes | %     |
|---------------------------------------|--------------|-------|
| adhesion migration                    | 82           | 4.03  |
| apoptosis                             | 46           | 2.26  |
| cell cycle                            | 58           | 2.85  |
| DNA repair/replication                | 24           | 1.18  |
| cytoskeleton                          | 74           | 3.63  |
| actin-bound                           | 41           |       |
| immune response                       | 12           | 0.59  |
| metabolism                            | 286          | 14.04 |
| heme catabolic process                | 9            |       |
| redox processes                       | 64           | 3.14  |
| cell proliferation                    | 14           | 0.69  |
| protein folding                       | 17           | 0.83  |
| signaling                             | 323          | 15.86 |
| nucleosome assembly                   | 50           | 2.45  |
| transcription                         | 343          | 16.84 |
| chromatin modification                | 30           |       |
| elongation                            | 4            |       |
| initiation                            | 7            |       |
| mRNA processing                       | 12           |       |
| mRNA splicing                         | 23           |       |
| regulation                            | 257          |       |
| translation                           | 57           | 2.80  |
| elongation/initiation                 | 16           |       |
| ribosome biogenesis                   | 6            |       |
| ribosome constituent                  | 9            |       |
| rRNA, tRNA processing                 | 7            |       |
| transport                             | 228          | 11.19 |
| ion/water channels                    | 29           |       |
| solute carrier                        | 44           |       |
| ubiquitination                        | 47           | 2.31  |
| other                                 | 10           | 0.49  |
| unknown                               | 302          | 14.83 |

Table 9

| <b>Processes for 83 regulated genes</b> | no. of genes | %     |
|-----------------------------------------|--------------|-------|
| adhesion migration                      | 6            | 7.23  |
| apoptosis                               | 3            | 3.61  |
| cell cycle                              | 1            | 1.20  |
| DNA repair/replication                  | 2            | 2.41  |
| cytoskeleton                            | 2            | 2.41  |
| metabolism                              | 19           | 22.89 |
| redox processes                         | 5            | 6.02  |
| cell proliferation                      | 1            | 1.20  |
| signaling                               | 20           | 24.10 |
| transcription                           | 8            | 9.64  |
| translation                             | 2            | 2.41  |
| transport                               | 10           | 12.05 |
| unknown                                 | 4            | 4.82  |

