LIN-54 binding and Motif 1 are under-represented on the X chromosome

### A Distribution of LIN-54 ChIP-peaks across the genome

| Chr   | LIN-54 ChIP peaks (per Mb) | Promoter-associated LIN-54 ChIP peaks (%) |
|-------|---------------------------|------------------------------------------|
| chr I | 400 (27)                  | 322 (10)                                 |
| chr II| 291 (19)                  | 262 (7)                                  |
| chr III| 429 (31)                | 372 (13)                                 |
| chr IV| 325 (19)                  | 264 (7)                                  |
| chr V | 402 (19)                  | 288 (5)                                  |
| chr X | 145 (8)                   | 64 (2)                                   |
| Autosome (average) | 369 (23) | 302 (8)                                  |

### B Distribution of gene promoters containing various motifs across the genome

| Chr   | Motif 1 (%) | EFL-1 (%) | HLH-27 (%) | FLH-1 (%) | NFL-1 (%) |
|-------|-------------|-----------|------------|-----------|-----------|
| chr I | 105 (3.9)   | 226 (8.3) | 90 (3.3)   | 29 (1.1)  | 28 (1.0)  |
| chr II| 90 (2.7)    | 179 (5.4) | 87 (2.6)   | 27 (0.8)  | 54 (1.6)  |
| chr III| 91 (3.7)    | 179 (7.2) | 83 (3.3)   | 32 (1.3)  | 35 (1.4)  |
| chr IV| 82 (2.6)    | 163 (5.2) | 101 (3.2)  | 33 (1.1)  | 28 (0.9)  |
| chr V | 125 (2.6)   | 261 (5.3) | 149 (3.1)  | 51 (1.0)  | 64 (1.3)  |
| chr X | 17 (0.6)    | 166 (6.2) | 63 (2.4)   | 23 (0.9)  | 20 (0.7)  |
| Autosome (average) | 99 (3.0) | 202 (6.1) | 102 (3.1) | 34 (1.0) | 42 (1.3) |

### C Distribution of LIN-54 responsive genes across the genome

| Chr   | lin-54(n2990) embryo up (%) | lin-54(n2990) embryo down (%) | lin-54(n3423) germline up (%) | lin-54(n3423) germline down (%) |
|-------|-----------------------------|--------------------------------|-------------------------------|---------------------------------|
| chr I | 128 (5.0)                   | 35 (1.4)                       | 19 (0.74)                     | 28 (1.1)                       |
| chr II| 152 (4.9)                   | 57 (1.8)                       | 14 (0.45)                     | 41 (1.3)                       |
| chr III| 135 (5.8)                  | 41 (1.8)                       | 17 (0.73)                     | 27 (1.2)                       |
| chr IV| 108 (3.9)                   | 50 (1.8)                       | 11 (0.39)                     | 51 (1.8)                       |
| chr V | 110 (2.5)                   | 61 (1.4)                       | 15 (0.34)                     | 40 (0.9)                       |
| chr X | 45 (1.8)                    | 55 (2.2)                       | 1 (0.04)                      | 64 (2.6)                       |
| Autosome (average) | 127 (4.2) | 49 (1.6) | 15 (0.50) | 37 (1.2) |