

Table 2: Enrich house-keeping genes in TAD boundaries

| Boundary | HK | no-HK | sum | Pearson's Chi-squared test | vs. Random |
|------------|-----|-------|------|----------------------------|------------|
| Disrupted | 293 | 668 | 961 | 2.20E-16 | **** |
| Maintained | 66 | 287 | 353 | 6.18E-08 | *** |
| Appeared | 2 | 30 | 32 | 0.5773 | NS |
| Random/100 | 182 | 1818 | 2000 | | |

* HK: housekeeping genes