**Table S9. The normalized FISH distances between six probe pairs.**

|  |  |
| --- | --- |
|  |  |
| Probe pairs | Normalized FISH distances1 |
| Lnp-GCR | 0.0027 |
| Hoxd3-Evx2 | 0.0015 |
| Rcn1-1550J22 | 0.0038 |
| Hbq-Il9r | 0.0019 |
| Hoxb1-Calcoco2 | 0.0028 |
| Hoxb1-Hoxb9 | 0.0006 |

1The normalized FISH distances are defined as the spatial distances obtained from the FISH experiment normalized by the radius of each cell.