**Table S1. Number of embryos expressing *Otx* in designated blastomeres of control and morphant embryos.**

|  |  |  |
| --- | --- | --- |
| Expression \*1 | Control | Morphants |
| a6.5 | a6.6 | a6.7 | a6.8 | *Fgf9/16/20* | *EphrinA-d*  | *Admp*  | *Gdf1/3-like*  | *Admp* &*Gdf*  | *Admp/Gdf /Fgf9/16/20* |
| + | - | - | - | 172 | (53%) |  |  | 8 | (19%) | 4 | (22%) | 10 | (67%) | 6 | (14%) |  |  |
| + | - | + | - | 114 | (35%) |  |  | 10 | (23%) | 14 | (78%) | 5 | (33%) | 5 | (11%) |  |  |
| + | + | + | - |  |  |  |  | 3 | (7%) |  |  |  |  | 9 | (20%) |  |  |
| + | + | + | + |  |  |  |  | 2 | (5%) |  |  |  |  | 15 | (34%) |  |  |
| - | - | - | - | 41 | (13%) | 55 | (100%) | 20 | (47%) |  |  | 　 | 　 | 9 | (20%) | 89 | (100%) |
| 　Total \*2 | 327 | 　 | 55 |  | 43 | 　 | 18 | 　 | 15 | 　 | 44 | 　 | 89 | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Expression \*1 | Control | Morphants |
| b6.5 | b6.6 | b6.7 | b6.8 | *Fgf9/16/20* | *EphrinA-d*  | *Admp* | *Gdf1/3-like*  | *Admp* &*Gdf*  | *Admp/Gdf /Fgf9/16/20* |
| + | - | - | - | 299 | (91%) |  |  | 10 | (23%) | 18 | (100%) | 15 | (100%) | 10 | (23%) |  |  |
| + | + | - | - |  |  |  |  | 11 | (26%) |  |  |  |  | 1 | (2%) |  |  |
| + | + | + | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| + | + | + | + |  |  |  |  | 4 | (9%) |  |  |  |  | 25 | (57%) |  |  |
| - | - | - | - | 28 | (9%) | 55 | (100%) | 18 | (42%) |  |  | 　 | 　 | 8 | (18%) | 89 | (100%) |
| 　Total \*2 | 327 | 　 | 55 | 　 | 43 | 　 | 18 | 　 | 15 | 　 | 44 | 　 | 89 | 　 |

\*1 Note that *Otx* was not expressed in combinations of cells not shown in this table; ‘+’ indicates the expression of *Otx*.

\*2 The expression in the a- and b-line blastomeres of the same embryos was count separately.