

Table S9. Effectiveness of myocardial contribution of donor-derived cells

| Session | Donor/host genotypes | Transplants with myocardial contribution | Myocardial contribution frequency |
|---------|----------------------|--|-----------------------------------|
| 1 | WT/WT | 6/30 | 20% |
| | <i>MZsmo</i> /WT | 2/18 | 11% |
| 2 | WT/WT | 3/21 | 14% |
| | <i>MZsmo</i> /WT | 0/15 | 0% |
| 3 | WT/WT | 4/46 | 9% |
| | <i>MZsmo</i> /WT | 2/31 | 6% |
| 4 | WT/WT | 4/17 | 24% |
| | <i>MZsmo</i> /WT | 4/26 | 15% |
| 5 | WT/WT | 7/28 | 25% |
| | <i>MZsmo</i> /WT | 3/31 | 10% |
| 6 | WT/WT | 5/31 | 16% |
| | <i>MZsmo</i> /WT | 2/27 | 7% |

In six independent transplantation sessions, donor embryos were derived from clutches that contained both wild-type and *MZsmo* mutant embryos (see Materials and methods), and myocardial contribution was assessed at 48 hpf.