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| **Figure 1-source data 1.** Quantification of neuronal migration and axon projection phenotypes in cultured embryos | | | | |
| **siRNA-treated embryos (*Actb-gfp* labeled, Figure 1)** | | | | |
| siRNA | | N (embryos) | N (sections) | % Sections with normal neuronal migration and axon projection |
| Control siRNA | | 6 | 42 | 100 |
| Pan-*Nova* siRNA | | 7 | 43 | 0 |
| **Knockout embryos (*Actb-gfp* labeled, Figure 1)** | | | | |
| Genotype | | N (embryos) | N (sections) | % Sections with normal neuronal migration and axon projection |
| WT | | 7 | 49 | 100 |
| *Nova* dKO | | 3 | 32 | 0 |
| *Dcc* KO | | 4 | 26 | 0 |
| **Rescue of *Nova* dKO embryos (*Actb-gfp* labeled, Figure 8)** | | | | |
| Plasmid | Rescue | N (embryos) | N (sections) | % Sections with restored neuronal migration and axon projection\* |
| *gfp* | No | 3 | 32 | 0 |
| *Dcclong* | Yes | 5 | 55 | 100 |
| *Dccshort* | No | 3 | 36 | 0 |
| *Robo3A.1* | No | 3 | 30 | 0 |
| **Knockout embryos (*Atoh1-gfp* labeled, Figure 1-figure supplement 2)** | | | | |
| Genotype | | N (embryos) | N (sections) | % Sections with axons reaching the ventral midline |
| WT | | 7 | 42 | 100 |
| *Nova* dKO | | 3 | 20 | 0 |
| *Dcc* KO | | 3 | 18 | 0 |
| **Rescue of *Nova* dKO embryos (*Atoh1-gfp* labeled, Figure 8-figure supplement 1)** | | | | |
| Plasmid | Rescue | N (embryos) | N (sections) | % Sections with axons reaching the ventral midline |
| *gfp* | No | 3 | 20 | 0 |
| *Dcclong* | Yes | 3 | 24 | 96 |
| *Dccshort* | No | 3 | 21 | 0 |
| In every case, the phenotype was consistently seen in all embryos examined. All the sections (20m thick) were collected around the forelimbs. \*The rescue of the defects was not 100% complete in individual sections, but was observed in all sections and to comparable levels. WT, wildtype. KO, knockout. dKO, double knockout. | | | | |