**Supporting Table 1**

Correlation of timing of birth and dystocia phenotypes per genotype. Dystocia is most likely to occur at term. Dystocia and delayed labor onset (after embryonic day 21) do not occur simultaneously, while dystocia and preterm birth do occur simultaneously in the *Bgn+/-Dcn-/-* and *Bgn-/-Dcn-/-* genotypes.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Genotype | Dystocia | Preterm birth | Delayed labor onset | Dystocia plus preterm birth | Dystocia plus delayed labor onset |  |
| *Bgn+/+Dcn+/+* | 0% | 0% | 0% | 0% | 0% |  |
| *Bgn-/-Dcn+/+* | 0% | 0% | 0% | 0% | 0% |  |
| *Bgn+/+Dcn-/-* | 9% | 0% | 0% | 0% | 0% |  |
| *Bgn+/-Dcn+/-* | 8% | 0% | 0% | 0% | 0% |  |
| *Bgn-/-Dcn+/-* | 5% | 10% | 0% | 0% | 0% |  |
| *Bgn+/-Dcn-/-* | 14% | 0% | 21% | 7% | 0% |  |
| *Bgn-/-Dcn-/-* | 29% | 29% | 0% | 14% | 0% |  |

*Bgn* = biglycan. *Dcn* = decorin