**TABLE S1: ECM genes**

All of the six selected genes (*Col3a1, Col1a2, Col1a1, Fbn1, Lama4, Lama2*) are significantly higher in cluster 4 than in the remainder of the dataset. *Col1a2* is significantly higher in all of cluster 2, 3, 4, 5, and 7.

| **Gene** | **Significant marker for clusters** |
| --- | --- |
| *Col3a1* | 2, 4, 7 |
| *Col1a2* | 2, 3, 4, 5, 7 |
| *Col1a1* | 2, 4, 5, 7 |
| *Fbn1* | 3, 4, 7 |
| *Lama4* | 4 |
| *Lama2* | 4 |