Appendix 1. Primers used in Sanger sequencing.

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| Primer name | Primer 5'- 3' | Amplicon (bp) | Detected variants |
| *COL2A1*-E1-F | cggggagaagacgcagag | 398 | c.85C>T |
| *COL2A1*-E1-R | tgtcctgtgcctaagtcgg |
| *COL2A1*-E26-F | ccttggcttcagaccctcag | 823 | c.1693C>T |
| *COL2A1*-E26-R | cactcatcactgtccctggt |
| *COL2A1*-E41-F | cagtccctcgccctttcc | 375 | c.2710C>T |
| *COL2A1*-E41-R | agccacccattgctgaca |
| *COL2A1*-E48-F | tgagtatccaagtgtcctgca | 455 | c.3356delG, c.3401delG |
| *COL2A1*-E48-R | ttatgtcccagccccattcc |