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| Table S1. Semen parameters of the individual family 1(Ⅱ-2) with a homozygous mutation in *MAD2L1BP* | | |
| Item | **Values** | **Normal value rangea** |
| Semen volume (ml) | 1.0 | ≥ 1.4 |
| Sperm concentration (106 per ml) | 0.8 | ≥ 15 |
| Total sperm number (106 per ejaculate) | 0.8 | ≥ 39 |
| Total motility (PR+NP, %) | 11.1 | ≥ 40 |
| Progressive motility (PR, %) | 11.1 | ≥ 32 |
| Non-progressive motility (NP, %) | 0 |  |
| Immotile spermatozoa (IM, %) | 88.9 |  |
| a. Semen parameters were evaluated according to the World Health Organization 2010 guidelines. | | |