# Supplementary material

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| **PIG1**  chr2:4983945..4984030A screenshot of a video game  Description generated with high confidence  chr4:81209310..81209395  A picture containing screenshot, computer  Description generated with very high confidence |

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| **PIG2**  chr6:27901287..27901372A screenshot of a video game  Description generated with high confidence  chr8:1266555..1266640  A picture containing screenshot  Description generated with very high confidence |

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| **PIG3**  chr2:4983945..4984030A screenshot of a video game  Description generated with high confidence  chr4:81209310..81209395  A picture containing screenshot  Description generated with very high confidence |

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| **PIG4**  chr2:4983945..4984030A screenshot of a video game  Description generated with high confidence  chr4: 81209310..81209395  A picture containing screenshot  Description generated with very high confidence |

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| **PIG5**  chr7:118889926..118890011A screenshot of a video game  Description generated with high confidence  chr14:49733328..49733412  A screenshot of a computer  Description generated with very high confidence |

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| **PIG6**  chr2:4983945..4984030A screenshot of a computer  Description generated with high confidence  chr 4:81209310..81209395  A screenshot of a computer  Description generated with very high confidence |

**Supplementary Figure 1.** JBrowse images of the aligned reads at the breakends on both chromosomes involved in the reciprocal translocation of each detected RT in 6 of the 7 carriers. In addition, an Ensemble gene spans track (gene positions indicated with blue bars) and RepeatMasker track (repetitive elements indicated with grey and blue striped pattern bars) are given at the top. Red reads are forward reads, blue reads are reverse reads, grey reads are reverse reads of a discordant pairs (its forward mate maps to another chromosome), and the black reads are forward reads of discordant pairs (its reverse mate maps to another chromosome).