

Table S5. Informations about mate-pairs reads with one mapped on the sequence flanking the 3' or 5' side of the insertion and the other carrying the protective mutation (in red).

Read Name	Library size	Mapping Quality	Mate Position	Sequence
ERR169319.205847.1	2900	60	5' flanking sequence	AAATATGGGACATAGGATATGCTGCTGATGTTGTTGCGATATGTTATCTGTAATGTTAAAGATGGGGCAATFAGTGTTFETAGACATAATYATCAATF
ERR169317.120576.6	8020	60	3' flanking sequence	TGTTTGTGATATGTTATCTGTAATGTTAAAGATGGGGCAATFAGTGTTFCTAAAGCTAAATYATCAATTTCTTTCATTCATGAGGAAGCTTGGCC
ERR169327.1422824	8020	60	3' flanking sequence	TGTTTGTGATATGTTATCTGTAATGTTAAAGATGGGGCAATFAGTGTTFCTAAAGCTAAATYATCAATTTCTTTCATTCATGAGGAAGCTTGGCC
ERR169327.1096925	8020	60	3' flanking sequence	TGTTTGTGATATGTTATCTGTAATGTTAAAGATGGGGCAATFAGTGTTFCTAAAGCTAAATYATCAATTTCTTTCATTCATGAGGAAGCTTGGCC
ERR169327.1313124	8020	60	3' flanking sequence	TGTTTGTGATATGTTATCTGTAATGTTAAAGATGGGGCAATFAGTGTTFCTAAAGCTAAATYATCAATTTCTTTCATTCATGAGGAAGCTTGGCC
ERR169317.4373880	8020	60	3' flanking sequence	GTTTGTGATATGTTATCTGTAATGTTAAAGATGGGGCAATFAGTGTTFCTAAAGCTAAATYATCAATTTCTTTCATTCATGAGGAAGCTTGGCC