

**Table S1.** Primers and probes for detection of Xenotropic murine leukemia virus-related virus (XMRV) and MLV-related virus.

Primer (F/R/P) <sup>1</sup>	Sequence (5' - 3')	Location <sup>2</sup>	Method, Template	Refs. <sup>6</sup>
XMRV4552F (F) XMRV4572MGB (P) XMRV4653R (R)	CGAGAGGCAGCCATGAAGG 6FAM-AGTTCTAGAAACCTCTACACTC-MGBNFQ GAGATCTGTTTCGGTGTAAATGGAAA	4547-4565 4567-4588 4624-4648	qPCR gDNA, cDNA viral amp. <sup>4</sup>	Schlaberg
XMRV4552F (F) XMRV4572MGB (P) XMRV4673R (R)	CGAGAGGCAGCCATGAAGG 6FAM-AGTTCTAGAAACCTCTACACTC-MGBNFQ CCCAGTCCCGTAGTCTTTTGAG	4547-4565 4567-4588 4646-4668	qPCR gDNA, cDNA viral amp. <sup>4</sup>	Schlaberg
XMRV_F36 (F) XMRV04-P (P) XMRV_B42 (R)	CCCAAATCCTGGACCCCTAAG 6FAM-GTATCGCTGGACCACGGA-BHQ1 CATACTCTGAAGGCAACCTCTACC	2325-2346 2389-2406 2725-2749	qPCR gDNA, cDNA	in house
XMRV_04F (F) XMRV_04P (P) XMRV_04R (R)	CTAAGTGACAAGTCTGCC 6FAM-GTATCGCTGGACCACGGA-BHQ1 CGCAAAGTACATCTGGCT	2342-2359 2389-2406 2408-2425	qPCR gDNA, cDNA viral amp. <sup>4</sup>	in house
gag 419F (F) gag 1154R (R)	ATCAGTTAACCTACCCGAGTCGGAC GCCGCCTCTTCTTCATTGTTCTC	419-443 1127-1149	PCR gDNA	Lombardi
env 5922F (F) env 6273R (R)	GCTAATGTACCTCCCTCTGG GGAGCCCACTGAGGAATCAAAACAGG	5917-5938 6242-6267	PCR gDNA	Lombardi
gag 419F (F) gag 1154R (R) GAG-I-F (F) GAG-I-R (R)	ATCAGTTAACCTACCCGAGTCGGAC GCCGCCTCTTCTTCATTGTTCTC TCTCGAGATCATGGGACAGA AGAGGGTAAGGGCAGGGTAA	419-443 1127-1149 598-617 991-1012	Nested PCR gDNA	Lombardi Urisman
419F (F) 1154R (R) NP116F (F) NP117R (R)	ATCAGTTAACCTACCCGAGTCGGAC GCCGCCTCTTCTTCATTGTTCTC CATGGGACAGACCGTAACTACC GCAGATCGGGACGGAGGTTG	419-443 1127-1149 607-628 968-987	Nested PCR gDNA, cDNA viral amp. <sup>4</sup>	Lombardi Lo
XMRV_F36 (F) XMRV_B42 (R) XMRV_04F (F) XMRV_04R (R)	CCCAAATCCTGGACCCCTAAG CATACTCTGAAGGCAACCTCTACC CTAAGTGACAAGTCTGCC CGCAAAGTACATCTGGCT	2325-2346 2725-2749 2342-2359 2408-2425	Nested PCR gDNA	in house in house
GAG-O-F (F) GAG-O-R (R) GAG-I-F (F) GAG-I-R (R)	CGCGTCTGATTTGTTTGT CCGCCTCTTCTTCATTGTTCTC TCTCGAGATCATGGGACAGA AGAGGGTAAGGGCAGGGTAA	537-556 1129-1148 598-617 991-1012	Nested PCR gDNA, cDNA,	Urisman Urisman
PMP22ex3F (F) PMP22ex3P (P) PMP22Ex3R (R)	GGGCAATGGACACGCAACT 6FAM-CTGGCAGAACTGTAGCACCTCTCC-BHQ1 TGATGAGAAACAGTGGTGGACA	11146-11164 <sup>3</sup> 11170-11194 <sup>3</sup> 11203-11224 <sup>3</sup>	qPCR gDNA	in house

<sup>1</sup>: F; forward primer, R; reverse primer, P; taqman probe.

<sup>2</sup>: XMRV sequence according to GenBank accession number EF185282.

<sup>3</sup>: According to GenBank accession number NG\_007949.1. Peripheral myelin protein 22 (PMP22, a single copy gene) was used to normalize for PCR using gDNA as input.  $\beta$ -actin (assay ID Hs99999903\_m1) was used as internal control for RT-PCR.

<sup>4</sup>: Coculture of patient peripheral blood mononuclear cells with LNCaP prostate carcinoma cells for viral amplification prior to PCR, using the primer setups indicated and both gDNA and cDNA as templates. Performed for nine patients.

<sup>6</sup>: References

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