

Table S1

Table S1. Primers applied for integration specific PCR and RT-PCR

Vector	Name	Gene	Vector orientation to gene	Vector primers (RT-PCR/semi-nested)	integration specific primer	Exon fw primer (upstream of integrationsite)	Exon rev primer (downstream of integrationsite)
Alpha	A1	MYB	+		GGGATCCCAGAGTTCTAGGCATGTG	GTCTGAATACCCAACTGTTACAGC	GGCTCGCCAGGGACCTGTT
	A2	UBAC2	+	aDWSA1 / aDWSA2	GGCCCAGACATTTATCCATTCCCTCC	GCTCTTTGTGTATGACCTTCACGC	GATGCAGAGCACCTGATGCACC
	A3	MAML3	+		CGTTTGTCAATTTGTACTGCTGAG	GGACACCGTGAGCCTCTACC	CATCACAAGCACCATTTCTGTGGT
	A4	ZKSCAN2	+		TGGTCCTGAGACACGTCAAAGATGTC	TCCTACAGAAAGAGTGTGCATCAG	GCAGACCTAGAGTCCATGGCTCC
	A5	ADAMTS17	-	aUPSAr1 / aUPSAr2	GCATGGTGGTGCATGCCTG	GTGCTTGCCGAAGACAATGGTCTC	CGTTGGCACTGTAGTGCATGCC
LV	L1	PSMD14	-	UPLVSD1 / UPLVSD2	GCAGCAGACTGTGAAGTTGCAGAA	GGAAAGTTGTACCTGCCAGAATTAG	CTGCAGGAGCATCTGTAGGTGG
	L2	ZFAND2A	-		TTCCCAGCCCGTGTACTTTGTC	CCATACGCTGCACATAAGTGTCCG	CAGAGTGGGCATACTGGGACG
	L3	HNRNPR	+	DWLVA1 / DWLVA2 (a) and	CCGCCAAATCCTAACATCCATTTCCC	GGCTAATCAGGTGAATGGTAATGCGG	GAACTGCTGTAGTACAGACAGAGCTCC
	L4	ZNF655	+	DWcrypSA1 /	ATGTGGAACACATGAGGCCAAGAG	AGGAAGCAGCAGGGTCACCAAGG	CAGCTTGTCTCTTCTCTGGTCTCTCC
	L5	ZFR	+	DWcrypSA2 (b')	TGCCAACCAAGCAATCCACAAC	CAGCCTCCCAAACCACCACAG	GAGTCCCACGAGTAGAACTGTTC

Abbreviations: aDWSA1: CCGACCAAAGACGTGCCTGG; aDWSA2: GGTCGTCGGGCTCACTCTCC; aUPSAr1: GGTGACCCCGACGTGATAGTTAGGG; aUPSAr2: ATAGTGGTCGGCCACAGA CGG; UPLVSD1, UPLVSD2, DWLVA1, DWLVA2, DWcrypSA1, DWcrypSA2 have been published previously by *Cesana et al. 2012*. For integration specific PCR vector specific primers were aSINfor (TCCGTGGTGTGTCGAAT) for Alpha and LVfor (TGGAAGGGCTAATCACTCCCAAC) for LV. All primers are listed in 5'-3' orientation.