

**High frequency of cryptic chromosomal rearrangements involving the *LMO2* gene in T-cell acute leukemia**

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Supplementary Table 1 Genomic characteristics of 24 patients with LMO2 rearrangement

Case	No	Age	Sex	Karyotype results	FISH result of LMO2,TCRA/D,TCRB translocation			LMO2 deletion	The translocation found by WGS	Final cytogenetic results
					LMO2	TCRA/D	TCRB			
case 1	14	M	46,XY,t(11;14)(p13;q11)[10]	translocation	Yes	No	NA	NA	46,XY,t(11;14)(p13;q11)[10]	
case 2	34	M	46,XY,t(11;14)(p13;q11)[10]	translocation	Yes	No	NA	NA	46,XY,t(11;14)(p13;q11)[10]	
case 3	25	M	unanalyzable	deletion	Yes	No	NA	NA	46,XY,t(11;14)(p13;q11)[10]	
case 4	11	M	46,XY[20]	translocation	Yes	No	NA	NA	46,XY,t(11;14)(p13;q11)[10]	
case 5	7	F	46,XX,t(11;14)(p13;q11)[10]	translocation	Yes	No	NA	NA	46,XX,t(11;14)(p13;q11)[10]	
case 6	15	M	46,XY[20]	translocation	No	Yes	NA	t(7;11)(q34;p13)	46,XY,t(7;11)(q34;p13)[10]	
case 7	11	M	46,XY[20]	translocation	Yes	No	NA	NA	46,XY,t(11;14)(p13;q11)[10]	
case 8	25	F	46,XX,t(11;14)(p13;q11)[5]/ 46,idem,t(1;8)(q32;q24)[5]	translocation	Yes	No	NA	NA	46,XX,t(11;14)(p13;q11)[5]/ 46,idem,t(1;8)(q32;q24)[5]	
case 9	18	M	46,XY[20]	translocation	Yes	No	No	NA	46,XY,t(11;14)(p13;q11)[10]	
case 10	37	M	46,XY,t(2;14)(p15;q32),t(3;3)(q21;p26), der(11),?del(16)[8]/46,XY[1]	translocation	No	No	NA	t(11;14)(p13;q32)	46,XY,t(2;14)(p15;q32),t(3;3)(q21;p26), t(11;14)(p13;q32),der(11),?del(16)[8]/46,XY[1]	
case 11	17	M	46,XY,add(9)(p23),t(11;14)(p13;q11)[7]/46,XY[3]	translocation	Yes	No	NA	NA	46,XY,add(9)(p23),t(11;14)(p13;q11)[7]/46,XY[3]	
case 12	17	M	44,XY,der(4)t(4;?)(p11;?),del(11)(p12) [inc CP5]/46,XY[15]	deletion	No	No	NA	NA	44,XY,der(4)t(4;?)(p11;?),del(11)(p12) [inc CP5]/46,XY[15]	
case 13	14	M	46,XY,t(11;14)(p13;q11)[10]	translocation	Yes	No	NA	NA	46,XY,t(11;14)(p13;q11)[10]	
case 14	60	M	46,XY,+4,der(9)t(9;11)(p21;q12),-11[10]/46,XY[2]	deletion	No	No	NA	NA	46,XY,+4,der(9)t(9;11)(p21;q12),-11[10]/46,XY[2]	
case 15	18	M	47,XY,t(1;1)(p33;q41),t(2;11)(p15;p13), i(7q),+12[10]	translocation	No	No	NA	NA	47,XY,t(1;1)(p33;q41),t(2;11)(p15;p13), i(7q),+12[10]	
case 16	38	M	46-47,XY,t(3;10)(p22;p15),del(11)(p12),+19 [inc CP3]/46, XY[17]	deletion	No	No	NA	NA	46-47,XY,t(3;10)(p22;p15),del(11)(p12),+19 [inc CP3]/46, XY[17]	
case 17	7	M	46,XY,t(8;14)(q24;q11),7q+,19p-[6]/46,XY[5]	translocation	Yes	Yes	NA	NA	46,XY,t(7;11)(q34;p13),t(8;14)(q24;q11),7q+,19p-[6]/46,XY[5]	
case 18	21	M	46,XY,t(11;14)(p13;q11)[10]	translocation	Yes	No	Yes	NA	46,XY,t(11;14)(p13;q11)[10]	
case 19	11	M	46,XY,t(11;14)(p13;q11)[9]/46,XY[1]	translocation	Yes	No	NA	NA	46,XY,t(11;14)(p13;q11)[9]/46,XY[1]	
case 20	15	M	46,XY,t(11;14)(p13;q11)[10]	translocation	Yes	No	No	NA	46,XY,t(11;14)(p13;q11)[10]	
case 21	23	M	46,XY,t(2;5;10)(q13;q35;p12)[10]	deletion	No	No	Yes	NA	46,XY,t(2;5;10)(q13;q35;p12),del(11)(p13)[10]	
case 22	25	M	46,Y,?(X;8)(q13;p21),?der(5),-8,der(9)t(8;9)(q11; p13),t(11;14)(p13;q11),+mar[inc CP3]/46,XY[5]	translocation	Yes	No	NA	NA	46,Y,?(X;8)(q13;p21),?der(5),-8,der(9)t(8;9)(q11; p13),t(11;14)(p13;q11),+mar[inc CP3]/46,XY[5]	
case 23	23	M	46,XY[4]	deletion	No	No	NA	NA	46,XY,del(11)(p13)[10]	
case 24	13	F	46,XX[20]	deletion	No	No	NA	NA	46,XX,del(11)(p13)[10]	