

TABLE. S2. The frequency of variations of each genes in detail

CODE	SEX	AGE	WBC	CLASS	RISK GRROUP	RELAPSE	DEATH	EBF1	IKZF1	CDKN2A/B	PAX5	ETV6	BTG1	RB1	XP22	
62	M	3.5	1.4	PRE	STANDARD			DEL.EBF1(10,14,16)								DUP.XP22(CRLF2, IL3RA,CSF2RA),
65	F	3	37	COM	S	+		DUP.EBF1(10,14)	DEL.IKZF1(2,3),							DUP.RB1(14,24,26)
107	F	6	80	COM	HIGH						DEL.PAX5(1,5)					
101	F	11	42	N	H				DEL.IKZF1(1)			DEL.ETV6(1a,1b, 2)	DUP.BTG1(3,4)	DEL.RB1(24,24,26),		
125	M	14	66	COM	H	+	+		DEL.IKZF1(1-8)	DEL.CDKN2A/B(2A,4A)	DEL.PAX5(2,5)					DUP.XP22(SHOX area, IL3RA)
52	M	2.5	137	N	H					DEL.CDKN2A/B(2A,4A)	DEL.PAX5(7,8,10)	DEL.ETV6(1a,1b)				DEL.XP22(CSF2RA, IL3RA, P2RY8),
122	F	1	622	PRO	H	+	+					DEL.ETV6(1a,1b)		DEL.RB1(14)		DUP.XP22(CRLF2, CSF2RA,IL3RA,P2RY8)
46	F	13	9.6	PRE	H				DEL.IKZF1(2-8)	DEL.CDKN2A/B(2A,4A)		DEL.ETV6(1a,1b)				Dup.XP22(IL3RA,P2RY8)
118	M	12	46	N	H(T)						DEL.PAX5(1,10)			DEL.RB1(14,19,24,26)		
58	F	8	178	N	H(T)	+	+			DEL.CDKN2A/B(2A,4A)						
44	M	4.5	161	N	H	+	+			DUP.CDKN2A/B(2A,4A),	DUP.PAX5(2,6,7,8)	DUP.ETV6(1-8)	DUP.BTG1(1,3)	DUP.RB1(6,19,24,26)		DUP.XP22(P2RY8,CRLF2)
81	F	4.5	4.4	PRO	S	+				DEL.CDKN2A/B(2A,2B,4A)	DUP.PAX5(8,10)	DUP.ETV6(1a,1b,5)	DUP.BTG1(1)			DUP.XP22(CRLF2,P2RY8)
63	M	8	89	N		+	+		DEL.IKZF1(1-8)							
82	M	3	9	COM	S	+	+		DEL.IKZF1(4-7)	DEL.CDKN2A/B(2A,4A)	DEL.PAX5(2,5,7)					DEL.XP22(CRLF2,P2RY8)
50	M	4	103	PRO	H				DEL.IKZ1(2,3)	DEL.CDKN2A/B(2A,4A)	DEL.PAX5(2,5)	DEL.ETV6(1a,1b,8),	DUP.BTG1(2,3)			
38	F	7.5	1.4	PRO	S					DEL.CDKN2A/B(2A,4A)						DEL.XP22(P2RY8)
105	F	10	24	COM	H	+	+	Whole gene(triplicate)	Whole gene(triplicate)	Whole gene(triplicate)	Whole gene(triplicate)	Whole gene(triplicate)	Whole gene(triplicate)	Whole gene(triplicate)	Whole gene(triplicate)	Whole gene(triplicate)
89	M	12	9.8	COM	H	-		DEL.EBF1(1,16)			DEL.PAX5(1,5,6),					
88	M	12	117	COM	H	+		DUP.EBF1(WHOLE)								DEL.XP22CRLF2,SHOXarea)
47	M	9	93	N	H		+			DEL.CDKN2A/B(4A),						DUP.XP22(IL3RA,P2RY8)
15	M	5	78	PRE	H(T)					DEL.CDKN2A/B(2A,2B,4A)						
111	M	5	205	N	H(T)	+	+					DEL.ETV6(5,8),	DUP.BTG1(1,2)	DUP.RB1(24,26)		DUP.XP22(CRLF2,P2RY8)
49	M	8	9.8	PRO	S	+	+	DUP.EBF1(1,14,16),				DEL.ETV6(1,3,5),	DUP.BTG1(1,2)			DUP.XP22(CRLF2)
45	M	1	11.2	COM	H				DEL.IKZF1(WHOLE),		DEL.PAX5(2,6,7,8),	DEL.ETV6(1a,1b,5,8),	DEL.BTG1(1)			
								3del 4 dup	B del 1 dup	10 del 2 dup	8del 3 dup	8del 3dup	7dup 1del	4dup 2del		10dup 3del