

**Table S8. Association between gene mutations and patients' clinical course**

Gene		NRG	RG	P.value
MYD88 L265P	mutant	4	4	0.678
	wild type	8	14	
MYD88	mutant	2	2	1
	wild type	10	16	
CD79B Y196X	mutant	7	10	1
	wild type	5	8	
CD79B	mutant	7	7	0.457
	wild type	5	11	
PIM1	mutant	2	6	0.419
	wild type	10	12	
BTG2	mutant	6	13	0.266
	wild type	6	5	
TBL1XR1	mutant	10	15	1
	wild type	2	3	
TOX	mutant	8	17	0.128
	wild type	4	1	
B2M	mutant	10	17	0.548
	wild type	2	1	
CARD11	mutant	10	15	1
	wild type	2	3	
PRDM1	mutant	10	17	0.548
	wild type	2	1	
TNFAIP3	mutant	11	16	1
	wild type	1	2	
TMEM30A	mutant	11	17	1
	wild type	1	1	
PRKCD	mutant	11	18	0.4
	wild type	1	0	

RG: recurrence group; NRG: non-recurrence group