

Supplement Table 1. The sequencing primers of variants in *PTPN22*, *IRF5* and *TYK2* genes

Gene	variants	sequencing primers(5'-3')
<i>PTPN22</i>	rs2470601	CATCTGCTATCCGGTACTCGA
	rs1217414	GAAATTACACGGGGTGACTGC
	rs1217418	GCTATTTCAAGTCCACAAGTCA
	rs1746853	AATTGCATTGCACTTGTAGATC
	rs1970559	ATTTTGTGACATTTTGGATAGCA
	rs3765598	ATAAGGATTTGGGAACATTTGG
	rs3811021	TCAGGTGGATTCTTTGTAAAATC
<i>IRF5</i>	exon6(de/in)	TGGGAGGCAGTTCGTGGAG
	rs2070197	TCTGGGTTTCCTGGAAGTAGAT
	rs10954213	CTCACTTCCTCATCTCCCTGTC
	rs2004640	ATGAAGACTGGAGTAGGGCGG
<i>TYK2</i>	rs280500	CAACTCAAGCAAGCCACTTA
	rs280519	CGCATGATGATGAGATTGGAGG
	rs2304256	GCTCCCTGGAAGGTGGTC
	rs8108236	CCTGACATCTGGAAGTTCCGAG
	rs12720253	ATGGGGGCTCCTCAACGG