

B cell subtype	Genes
Memory B cells	H2-Ea,H2-Eb1,B7-1,Entpd1,Cd19,Cr2,Cd40,Fas,Pdcd1lg2,Pax5,Spib,Cd84,Cd86,Sell,Pml,Ccr6,Zeb2,Notch2,Tcf4,Cd59,Cxcr5,Itga4,Ikzf3,Runx3
Plasma B cells	Tnfrsf17,Cc27,Cc93,Cxcr4,Ly6K,Sdc1,Cd9,Cd19,Ilg6,Cd320,Prdm1,Irf4,Xbp1,Jchain,Igha1,Igkc,Slpi,Txndc5,Xbp1,Hsp90b1,Ssr4,Manf,Mzb1,Pdia4,Fkbp11,Edem1,Sec11c,Hspa5,Igfc2,Rexo2,Sdf211,Igkv2-28,Derl3,Tnfrsf17,Edem2,Ly6h,Pscdbp
Regulatory B cell	Cd1d,Cd5,Cd19,Cr2,Cd24,Cd40,Ighd,Ighm,Havcr1,Fcrl5,Ptpn22,Ccdc28b,Zbtb20,Cd9,Cd300lf,Ccr1,Csf2rb,S100a6,Plac8,Ccnd2,Rilpl2,Apoe,Sp140,Slc7a7,Rplp0,Pdia4,Ccdc28b,Mzb1
B1	Itgam,Ighm,Cd5,Sdc1,Spn,Bhlhe41,Zbtb32,S100a6,Plac8,Crip1,Ass1,Ahnak,Anxa2,Vim,Itgb1,Mrpl52,Fxyd5,Eef1b2,S100a4,Rassf4,Ptpn1,Lsp1,Napsa,Ptpn22,Zbtb20
Marginal Zone B cells	Cd1d,Cd9,Cd19,Cr2,Cd22,Cr1,Ighm,Fcer2,Has1,Pax5,Ebfl,Tcf3,S1pr3,Mfhas1,Dph5,Dtx1,Pik3r4,Tm6sf1,Ackr3,Marcks,Ahr
Follicular B cell	Cd19,Cr2,Cd22,Fcer2,Cd38,Cxcr5,Ighd,H2-Ea,H2-Eb1,Sell,Pax5,Ly6d,Klf2,Rpl30,Fcmmr,Cd55,Fchsd2,H2-Ab1,Stat4,Irf8,Cytip,Traf5,Tnfaip3,Hhex,Ill10ra,Cxcr4,Ahnak,
Transitional B cells	Cd93,Cd24,Ighm,Tnfrsf13c,Tnfrsf13b,Pax5,Ebfl,Tcd3,Cd19,Cr2,Cd22,Fcer2,Ighd,Has1
Germinal Center B cells	Bcl6,Rgs13,Cd86,Lpp,Cdkn2c,Ccnh,Pclaf,Stmn1,Ube2c,Hmgb2,Gapdh,Dut,Blvrb,H2az1,Top2a,Tgfb1,Cdc20

Supplementary Table 3. Mouse gene symbols for B cell subtype classification.