

The diagram illustrates a complex network of protein interactions centered around MYC. MYC is the central node, with numerous blue arrows pointing outwards to other proteins. Red lines represent other interactions between proteins in the network. The proteins are arranged in a circular fashion around MYC, with some clusters like the TAF proteins on the right and the GTF2 proteins at the bottom.

Proteins shown include: POLR2A, POLR2G, POLR2B, POLR2D, POLR2C, POLR2E, POLR2I, POLR2F, POLR2H, POLR2L, POLR2J, POLR2K, POLR2L, POLR2M, POLR2N, POLR2O, POLR2P, POLR2Q, POLR2R, POLR2S, POLR2T, POLR2U, POLR2V, POLR2W, POLR2X, POLR2Y, POLR2Z, POLR2AA, POLR2AB, POLR2AC, POLR2AD, POLR2AE, POLR2AF, POLR2AG, POLR2AH, POLR2AI, POLR2AJ, POLR2AK, POLR2AL, POLR2AM, POLR2AN, POLR2AO, POLR2AP, POLR2AQ, POLR2AR, POLR2AS, POLR2AT, POLR2AU, POLR2AV, POLR2AW, POLR2AX, POLR2AY, POLR2AZ, POLR2BA, POLR2BB, POLR2BC, POLR2BD, POLR2BE, POLR2BF, POLR2BG, POLR2BH, POLR2BI, POLR2BJ, POLR2BK, POLR2BL, POLR2BM, POLR2BN, POLR2BO, POLR2BP, POLR2BQ, POLR2BR, POLR2BS, POLR2BT, POLR2BU, POLR2BV, POLR2BW, POLR2BX, POLR2BY, POLR2BZ, POLR2CA, POLR2CB, POLR2CC, POLR2CD, POLR2CE, POLR2CF, POLR2CG, POLR2CH, POLR2CI, POLR2CJ, POLR2CK, POLR2CL, POLR2CM, POLR2CN, POLR2CO, POLR2CP, POLR2CQ, POLR2CR, POLR2CS, POLR2CT, POLR2CU, POLR2CV, POLR2CW, POLR2CX, POLR2CY, POLR2CZ, POLR2DA, POLR2DB, POLR2DC, POLR2DD, POLR2DE, POLR2DF, POLR2DG, POLR2DH, POLR2DI, POLR2DJ, POLR2DK, POLR2DL, POLR2DM, POLR2DN, POLR2DO, POLR2DP, POLR2DQ, POLR2DR, POLR2DS, POLR2DT, POLR2DU, POLR2DV, POLR2DW, POLR2DX, POLR2DY, POLR2DZ, POLR2EA, POLR2EB, POLR2EC, POLR2ED, POLR2EE, POLR2EF, POLR2EG, POLR2EH, POLR2EI, POLR2EJ, POLR2EK, POLR2EL, POLR2EM, POLR2EN, POLR2EO, POLR2EP, POLR2EQ, POLR2ER, POLR2ES, POLR2ET, POLR2EU, POLR2EV, POLR2EW, POLR2EX, POLR2EY, POLR2EZ, POLR2FA, POLR2FB, POLR2FC, POLR2FD, POLR2FE, POLR2FF, POLR2FG, POLR2FH, POLR2FI, POLR2FJ, POLR2FK, POLR2FL, POLR2FM, POLR2FN, POLR2FO, POLR2FP, POLR2FQ, POLR2FR, POLR2FS, POLR2FT, POLR2FU, POLR2FV, POLR2FW, POLR2FX, POLR2FY, POLR2FZ, POLR2GA, POLR2GB, POLR2GC, POLR2GD, POLR2GE, POLR2GF, POLR2GG, POLR2GH, POLR2GI, POLR2GJ, POLR2GK, POLR2GL, POLR2GM, POLR2GN, POLR2GO, POLR2GP, POLR2GQ, POLR2GR, POLR2GS, POLR2GT, POLR2GU, POLR2GV, POLR2GW, POLR2GX, POLR2GY, POLR2GZ, POLR2HA, POLR2HB, POLR2HC, POLR2HD, POLR2HE, POLR2HF, POLR2HG, POLR2HH, POLR2HI, POLR2HJ, POLR2HK, POLR2HL, POLR2HM, POLR2HN, POLR2HO, POLR2HP, POLR2HQ, POLR2HR, POLR2HS, POLR2HT, POLR2HU, POLR2HV, POLR2HW, POLR2HX, POLR2HY, POLR2HZ, POLR2IA, POLR2IB, POLR2IC, POLR2ID, POLR2IE, POLR2IF, POLR2IG, POLR2IH, POLR2II, POLR2IJ, POLR2IK, POLR2IL, POLR2IM, POLR2IN, POLR2IO, POLR2IP, POLR2IQ, POLR2IR, POLR2IS, POLR2IT, POLR2IU, POLR2IV, POLR2IW, POLR2IX, POLR2IY, POLR2IZ, POLR2JA, POLR2JB, POLR2JC, POLR2JD, POLR2JE, POLR2JF, POLR2JG, POLR2JH, POLR2JI, POLR2JJ, POLR2JK, POLR2JL, POLR2JM, POLR2JN, POLR2JO, POLR2JP, POLR2JQ, POLR2JR, POLR2JS, POLR2JT, POLR2JU, POLR2JV, POLR2JW, POLR2JX, POLR2JY, POLR2JZ, POLR2KA, POLR2KB, POLR2KC, POLR2KD, POLR2KE, POLR2KF, POLR2KG, POLR2KH, POLR2KI, POLR2KJ, POLR2KK, POLR2KL, POLR2KM, POLR2KN, POLR2KO, POLR2KP, POLR2KQ, POLR2KR, POLR2KS, POLR2KT, POLR2KU, POLR2KV, POLR2KW, POLR2KX, POLR2KY, POLR2KZ, POLR2LA, POLR2LB, POLR2LC, POLR2LD, POLR2LE, POLR2LF, POLR2LG, POLR2LH, POLR2LI, POLR2LJ, POLR2LK, POLR2LL, POLR2LM, POLR2LN, POLR2LO, POLR2LP, POLR2LQ, POLR2LR, POLR2LS, POLR2LT, POLR2LU, POLR2LV, POLR2LW, POLR2LX, POLR2LY, POLR2LZ, POLR2MA, POLR2MB, POLR2MC, POLR2MD, POLR2ME, POLR2MF, POLR2MG, POLR2MH, POLR2MI, POLR2MJ, POLR2MK, POLR2ML, POLR2MM, POLR2MN, POLR2MO, POLR2MP, POLR2MQ, POLR2MR, POLR2MS, POLR2MT, POLR2MU, POLR2MV, POLR2MW, POLR2MX, POLR2MY, POLR2MZ, POLR2NA, POLR2NB, POLR2NC, POLR2ND, POLR2NE, POLR2NF, POLR2NG, POLR2NH, POLR2NI, POLR2NJ, POLR2NK, POLR2NL, POLR2NM, POLR2NN, POLR2NO, POLR2NP, POLR2NQ, POLR2NR, POLR2NS, POLR2NT, POLR2NU, POLR2NV, POLR2NW, POLR2NX, POLR2NY, POLR2NZ, POLR2OA, POLR2OB, POLR2OC, POLR2OD, POLR2OE, POLR2OF, POLR2OG, POLR2OH, POLR2OI, POLR2OJ, POLR2OK, POLR2OL, POLR2OM, POLR2ON, POLR2OO, POLR2OP, POLR2OQ, POLR2OR, POLR2OS, POLR2OT, POLR2OU, POLR2OV, POLR2OW, POLR2OX, POLR2OY, POLR2OZ, POLR2PA, POLR2PB, POLR2PC, POLR2PD, POLR2PE, POLR2PF, POLR2PG, POLR2PH, POLR2PI, POLR2PJ, POLR2PK, POLR2PL, POLR2PM, POLR2PN, POLR2PO, POLR2PP, POLR2PQ, POLR2PR, POLR2PS, POLR2PT, POLR2PU, POLR2PV, POLR2PW, POLR2PX, POLR2PY, POLR2PZ, POLR2QA, POLR2QB, POLR2QC, POLR2QD, POLR2QE, POLR2QF, POLR2QG, POLR2QH, POLR2QI, POLR2QJ, POLR2QK, POLR2QL, POLR2QM, POLR2QN, POLR2QO, POLR2QP, POLR2QQ, POLR2QR, POLR2QS, POLR2QT, POLR2QU, POLR2QV, POLR2QW, POLR2QX, POLR2QY, POLR2QZ, POLR2RA, POLR2RB, POLR2RC, POLR2RD, POLR2RE, POLR2RF, POLR2RG, POLR2RH, POLR2RI, POLR2RJ, POLR2RK, POLR2RL, POLR2RM, POLR2RN, POLR2RO, POLR2RP, POLR2RQ, POLR2RR, POLR2RS, POLR2RT, POLR2RU, POLR2RV, POLR2RW, POLR2RX, POLR2RY, POLR2RZ, POLR2SA, POLR2SB, POLR2SC, POLR2SD, POLR2SE, POLR2SF, POLR2SG, POLR2SH, POLR2SI, POLR2SJ, POLR2SK, POLR2SL, POLR2SM, POLR2SN, POLR2SO, POLR2SP, POLR2SQ, POLR2SR, POLR2SS, POLR2ST, POLR2SU, POLR2SV, POLR2SW, POLR2SX, POLR2SY, POLR2SZ, POLR2TA, POLR2TB, POLR2TC, POLR2TD, POLR2TE, POLR2TF, POLR2TG, POLR2TH, POLR2TI, POLR2TJ, POLR2TK, POLR2TL, POLR2TM, POLR2TN, POLR2TO, POLR2TP, POLR2TQ, POLR2TR, POLR2TS, POLR2TT, POLR2TU, POLR2TV, POLR2TW, POLR2TX, POLR2TY, POLR2TZ, POLR2UA, POLR2UB, POLR2UC, POLR2UD, POLR2UE, POLR2UF, POLR2UG, POLR2UH, POLR2UI, POLR2UJ, POLR2UK, POLR2UL, POLR2UM, POLR2UN, POLR2UO, POLR2UP, POLR2UQ, POLR2UR, POLR2US, POLR2UT, POLR2UU, POLR2UV, POLR2UW, POLR2UX, POLR2UY, POLR2UZ, POLR2VA, POLR2VB, POLR2VC, POLR2VD, POLR2VE, POLR2VF, POLR2VG, POLR2VH, POLR2VI, POLR2VJ, POLR2VK, POLR2VL, POLR2VM, POLR2VN, POLR2VO, POLR2VP, POLR2VQ, POLR2VR, POLR2VS, POLR2VT, POLR2VU, POLR2VV, POLR2VW, POLR2VX, POLR2VY, POLR2VZ, POLR2WA, POLR2WB, POLR2WC, POLR2WD, POLR2WE, POLR2WF, POLR2WG, POLR2WH, POLR2WI, POLR2WJ, POLR2WK, POLR2WL, POLR2WM, POLR2WN, POLR2WO, POLR2WP, POLR2WQ, POLR2WR, POLR2WS, POLR2WT, POLR2WU, POLR2WV, POLR2WW, POLR2WX, POLR2WY, POLR2WZ, POLR2XA, POLR2XB, POLR2XC, POLR2XD, POLR2XE, POLR2XF, POLR2XG, POLR2XH, POLR2XI, POLR2XJ, POLR2XK, POLR2XL, POLR2XM, POLR2XN, POLR2XO, POLR2XP, POLR2XQ, POLR2XR, POLR2XS, POLR2XT, POLR2XU, POLR2XV, POLR2XW, POLR2XX, POLR2XY, POLR2XZ, POLR2YA, POLR2YB, POLR2YC, POLR2YD, POLR2YE, POLR2YF, POLR2YG, POLR2YH, POLR2YI, POLR2YJ, POLR2YK, POLR2YL, POLR2YM, POLR2YN, POLR2YO, POLR2YP, POLR2YQ, POLR2YR, POLR2YS, POLR2YT, POLR2YU, POLR2YV, POLR2YW, POLR2YX, POLR2YY, POLR2YZ, POLR2ZA, POLR2ZB, POLR2ZC, POLR2ZD, POLR2ZE, POLR2ZF, POLR2ZG, POLR2ZH, POLR2ZI, POLR2ZJ, POLR2ZK, POLR2ZL, POLR2ZM, POLR2ZN, POLR2ZO, POLR2ZP, POLR2ZQ, POLR2ZR, POLR2ZS, POLR2ZT, POLR2ZU, POLR2ZV, POLR2ZW, POLR2ZX, POLR2ZY, POLR2ZZ.

The diagram illustrates a complex signaling pathway involving numerous proteins. The nodes are represented by yellow rounded rectangles with black text. The edges are colored red or blue, with some having arrowheads indicating direction. The diagram shows a dense network of interactions, particularly around central nodes like STAT5A, STAT5B, and SYK. Red edges are more numerous than blue edges. Some nodes have self-loops, such as STAT5B and LCK.

Key nodes and their interactions include:

- STAT5A** and **STAT5B**: Central nodes with multiple incoming and outgoing edges, including self-loops. They interact with **STAT6**, **SYK**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**, **IL6**, **IL7**, **IFNG**, **HLA-DMA**, **TRAF6**, **MAP3K7**, **TNFRSF4**, **TRAF2**, **BCL10**, **MALT1**, **TGFB1**, **TGFB2**, **RARA**, **CDKN1A**, **AP3B1**, **BCL6**, **CD5**, **CD27**, **CD47**, **ZAP70**, **PTPRC**, **LCK**, **CD3E**, **CD4**, **CD38**, **CD86**, **NCK1**, **ICOSLG**, **NCK2**, **CD80**, **THY1**, **VCAM1**, **IL1B**, **IL18**, **IL2RG**

Diagram illustrating a metabolic network centered on MYC. MYC is shown as a central node, with numerous other metabolites (represented by yellow boxes) connected to it via blue arrows, indicating activation. A cluster of metabolites on the left (PGM, GAPDH, DHB, DH2, OGDH, MDH1, GPD1, TPI1, ALDOA, PDK2, DLAT, PDK1, PGK1, PDK3) is interconnected by red arrows, indicating inhibition. MYC also has direct red arrows pointing to TPI1, ALDOA, and PFKM. Other metabolites like UGP2, LDHA, LDHB, AKR1A1, GPI, NISCH, ALDOC, ENO2, RPIA, PFKP, ATF4, ALDH5A1, PCK2, IGF2, PPARD, PKM2, H6PD, SERP1, WDTC1, ENO1, SORD, PFKL, and MDH1 are also shown with blue arrows pointing towards MYC.