

Supplementary Material

Identification of specific biomarkers and pathways in the treatment response of infliximab for inflammatory bowel disease: *In-silico* analysis

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Table S1 Criteria for selection of DEGs in this study (w/o = without)

(A) IBD vs Control:

Dataset	Criteria	Total number of probes	Total DEGs	Up regulated in IBD	Down regulated in IBD
GSE14580	P ≤ 0.05 and logFC = ±1.5	3090	2848 (2133 w/o duplicates)	2007 (1468 w/o duplicates)	841 (670 w/o duplicates)
GSE73661	P ≤ 0.05 and logFC = ±1.5	221	213 (197 w/o duplicates)	126 (112 w/o duplicates)	87 (85 w/o duplicates)

(B) RE vs NRE: (RE= responders; NRE= non-responders)

Dataset	Criteria	Total number of probes	Total DEGs	Up regulated in RE	Down regulated in RE
GSE14580	logFC = ±1.5	586	491 (437 w/o duplicates)	98	393 (339 w/o duplicates)
GSE73661	P ≤ 0.05 and logFC = ±1.5	175	151 (138 w/o duplicates)	30 (28 w/o duplicates)	121 (110 w/out duplicates)
GSE12251	P ≤ 0.05 and logFC = ±1.5	114	110 (88 w/o duplicates)	7	103 (81 w/o duplicates)

GSE23597 (for intersection)	P ≤ 0.05 and logFC = ±1.5	50	50 (43 w/o duplicates)	8 (7 w/o duplicates)	42 (36 w/o duplicates)
GSE23597 (for Metascape analysis)	P ≤ 0.05 and logFC = ±1.5	156	148 (129 w/o duplicates)	19 (16 w/o duplicates)	129 (113 w/o duplicates)
GSE111761	P ≤ 0.05 and logFC = ±1.5	3545	3211 (2789 w/o duplicates)	1483 (1282 w/o duplicates)	1728 (1512 w/o duplicates)

Table S2: List of genes that are differently expressed in GSE14580 and GSE73661 (IBD vs control).

Dataset	Condition	List of genes	
GSE14580	IBD	Upregulated (1468)	Downregulated (670)

		SLC15A3, S100A8, DPY19L1, PML, XAF1, RTEL1-TNFRSF6B, RTEL1, IFITM2, FKBP11, CDH3, NFKBIZ, ANXA5, PIM3, IFITM2, IFITM1, CDC25B, NCF4, SLA, RTEL1, SERPINA3, IFI16, UBD, GABBR1, MCUB, ASPHD2, FBXO16, MMP10, APOL1, LCN2, BAG3, CHI3L1, CCDC167, SERPINA1, ADAM15, LAMP3, SDR16C5, SERPINB5, PIKFYVE, FAM26F, KCND3, MAFF, F3, SBNO2, S100P, RRM2, LILRB2, TGM2, SRGN, TRIM69, CARD16, CASP1, SGMS1, PKIA, ERO1A, CREB3L2, IFI30, PIK3R2, GBP1, PHC1, MMP3, TAP2, MTHFD2, PCSK1, BHLHA15, QKI, CALU, STAT1, CARD6, ZBP1, CIITA, CD274, AQP9, GRK5, SOCS3, CCL24, HLA-DMB, THBD, PHLDA2, VSIG1, MLKL, RGS2, SNN, S100A2, MUC5AC, TMC5, WARS, BTN3A3, CLCN4, OSBPL3, SLC41A1, STXBP1, SERPINB7, WISP1, CXCL5, S100A11, PMEPA1, CXCL8, GLCCI1, CENPW, B2M, CLDN1, MCTP1, FCRL5, IGKC, VNN1, PKM, SLFN5, GRHL1, C8orf4, IQSEC1, PTAFR, PDE4B, IFITM1, BICD1, IGK, IGKC, IL1B, GJA4, MLIP, FAM83A, LOC100129518, SOD2, PARP8, ART3, FCGR3B, FCGR3A, OSMR, STRIP2, CXCL6, LIPG, MIR1908, FADS1, RPL22L1, DUSP7, LPGAT1, ST3GAL1, FXYD5, KLHL29, ELL2, PLAU, RAC2, NCOA7, TMEM92, PCDH17, RAB31, ASPH, AQP3, RILPL2, RHOQ, TRIM22, MME, BHLHE40, DNAJB9, RHOH, PF4, IER3, ITGB2, TMEM106A, GPX8, CEP112, AIF1, KCNE3, CD93, SEC24D, FOXQ1, ABCA12, GM2A, GJA1, ADA, TRIM29, DNAJC10, PLAUR, PLA2G7, RASGRP3, GIMAP2, HGF, BAG2, CYAT1, IGLV1-44, IGLC1, UNC5CL, MSN, REG1A, LOC101928916, NNMT, PECAM1, FFAR2, SEC14L1, TSPAN5, AGPAT4, LY96, ZAK, CASP5, LOC401317, CREB5, IGHV4-31,IGHM,IGHG3,IGHG1,IGHA1, CBR3,LYSMD2,TGFBI,PMAIP1, FAM92A1,DRAM1,DERL3,SEMA4D, LINC00888,CSF2RB,XBP1,EHBP1L1, MXRA5,IL1A,MAFB,ARHGDI, LOC643733,MMP1,KLF7,CDC42EP2, IGLV1-44,IGLC1,PRDM1,ELOVL5, DEFB1, WDR78, ANK3, PHLPP2, BSG, MIR4680, PDCD4, PIWIL2, FGFR2, TMEM38B, RETSAT, MT1E, RUNDC3B, ABCG2, NAAA, SETD9, APPL2, TSPAN7, GUCA2B, CDKN2B, C15orf38-AP3S2, AP3S2, LOC286052, TMEM37, NEURL1B, SLC35G1, FCGRT, ATP23, ACSF2, HSD3B2, CYP2B7P, CYP2B6, PDK4, AGFG2, METTL7B, SAMD13, LOC101929340, C2orf88, MT1H, PHYH, LEAP2, SLC4A4, EPB41L4B, RRAS2, HSD17B2, SELENBP1, RAVER2, PLA2G12B, SLC36A1, LOC100506558, MATN2, SLC38A4, PRKG2, P2RY1, DPP10-AS1, LOC102724250, LOC101930059, NBPF15, NBPF11, NBPF1, SLC51B, DEPDC7, SLC39A5, EXPH5, SYTL2, CLYBL, RAB40B, PXMP2, SLC19A3, MCOLN2, FAM162A, MPND, ADGRA3, TP53TG1, MYO1D, ADIRF, PKIB, PDLM2, FMO5, LRRC31, LOC101927157, NIPAL1, OSBPL1A, PMM1, SLC16A1, ADH1A, TMEM56, CPT1A, TMEM98, MT2A, ZNF91, HNMT, HMOX1, PBLD, FAM47E-STBD1, FAM47E, STBD1, ARHGEF37, ETFDH, EPHX1, CES2, CLCN2, PDE6A, GALNT12, OAF, SLC20A2, LRRC19, MT1HL1, UGT2A3, MT1X, PTPRR, LRRN2, ACADS, MAOA, ABAT, PSD3, METTL7A, LOC101928274, VSIG10,
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GSE73661	IBD	Upregulated (112) SLC6A14, C8orf4, S100P, CD55, REG4, EPHA2, C2, AREG, PHLDA1, LPCAT1, DAPP1, TRIM29, NR4A2, MUC5B, SNORA7B, PARP8, , IL1B, TIMP1, TRIM22, NR4A1, SNORD3D, SNORD3C, SNORD3B-2, SNORD3A, SNORD3B-1, ARNTL2, CDH3, PCSK1, CCL20, SLC28A3, SERPINB5, CXCL1, PI3, TFF1, OLFM4, SOCS3, VNN1, CATSPERB, FOS, CXCL2, PTCH2, SPINK4, LCN2, CYR61, IL1RN, EGR1, CFB, FOSB, APOL1, PDZK1IP1, HBEGF, ABCA12, RGS2, MIR221, KCND3, PFKFB3, TRIM40, GABRP, HLA-DRA, HLA-DQA1, UBD, DUOX2, OAS2, SLCO1B3, PTGS2, NOS2, SLC7A11, RNU5B-1, LOC102724428, SIK1, DUOXA2, ITGA5, IDO1, IRAK3, C4BPB, SLC2A3, WARS, KYNU, CLDN1, REG3A, VSIG1, SELP, OSMR, IL1A, TNC, SAA2, DEFA5, GBP4, STEAP4, CXCL11, SERPINB7, DMBT1, TCN1, MMP7, TNIP3, MMP3,	Downregulated (87) APOBEC3B, PDE6A, C1QTNF3-AMACR, AMACR, BRINP3, VLDR, CYP2B7P, PHLPP2, NAALADL1, BMP3, BMP3, ENPP1, PRKG2, SLC22A5, SLC38A4, AQP8, PDK2, DPP10, SLC35G1, WDR78, CNTFR, TMEM63C, RMDN2, HOXA6, FGFR2, CDKN2B, RPS6KA6, SLC51B, PBLD, HSD17B2, TUBAL3, LRRC19, SLC4A10, TRHDE, TMEM37, TMEM56-RWDD3, TMEM56, CYP2B6, CNTN4, GBA3, SLC16A1, SLC17A4,

		DEFA6, TGM2, CEMIP, SELE, DSG3, C3, CFI, CXCL8, S100A8, REG1A, VNN2, CD274, MMP1, CHI3L1, AQP9, SERPINB3, PLEK, MMP12, SERPINB4, REG1B, MS4A1, CXCL10	SLC30A10, SLC10A5, PAQR5, ABCG2, GXYLT2, UGT2A3, MT1H, MT1F, SLCO4C1, EDIL3, MT1M, CNTN3, MT1G, ACSF2, DHRS11, OTOP2, SATB2-AS1, ABCB1, SLC51A, HMGCS2, PPARGC1A, CD177, HNF1A-AS1, B4GALNT2, MEP1B, SLC26A2, LINC01559, XPNPEP2, MEP1A, GUCA2B, PADI2, TRPM6, TMEM236, FSIP2, CHP2, HSD3B2, GHR, GUCA2A, TMIGD1, ANPEP, ADH1C, SLC16A9, CLDN8, CWH43, PCK1,
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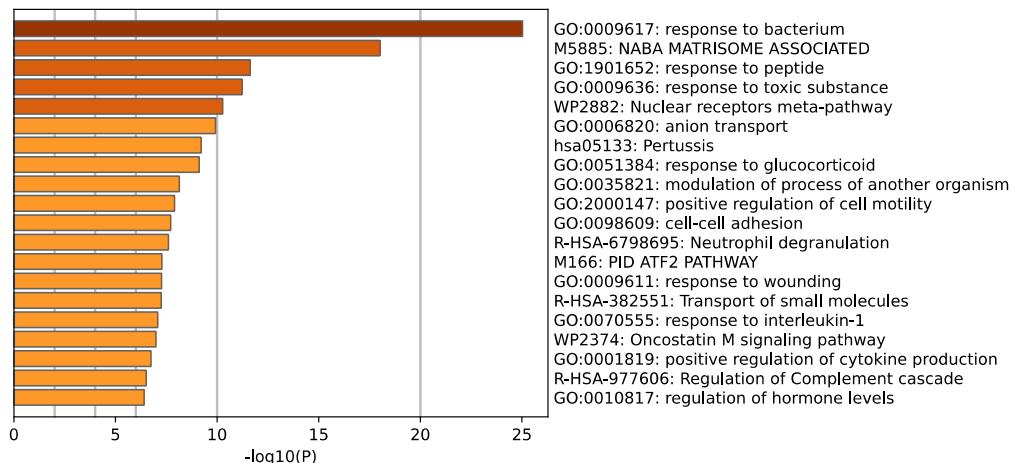
Table S3: List of intersected 174 DEGs from GSE14580 and GSE73661

List of intersected 174 DEGs from GSE14580 and GSE73661
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B4GALNT2, GXYLT2, GHR, FOSB, DEFA5, DEFA6, TMEM63C, HBEGF, CNTN4, MUC5B, ANPEP

Figure S1 Gene term enrichment analysis of the 174 shared DEGs of dataset GSE14580 and GSE73661

(A) Pathway analysis:



(B) Transcription factors:

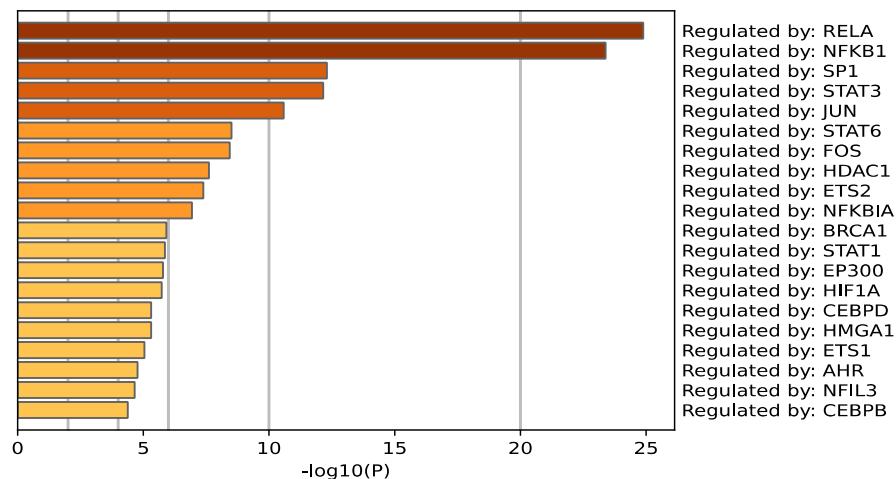


Table S4: List of genes that are differently expressed in GSE14580 (RE vs NRE)

Dataset	Condition	List of genes (437)	
GSE14580	RE	Upregulated (98)	Downregulated (339)

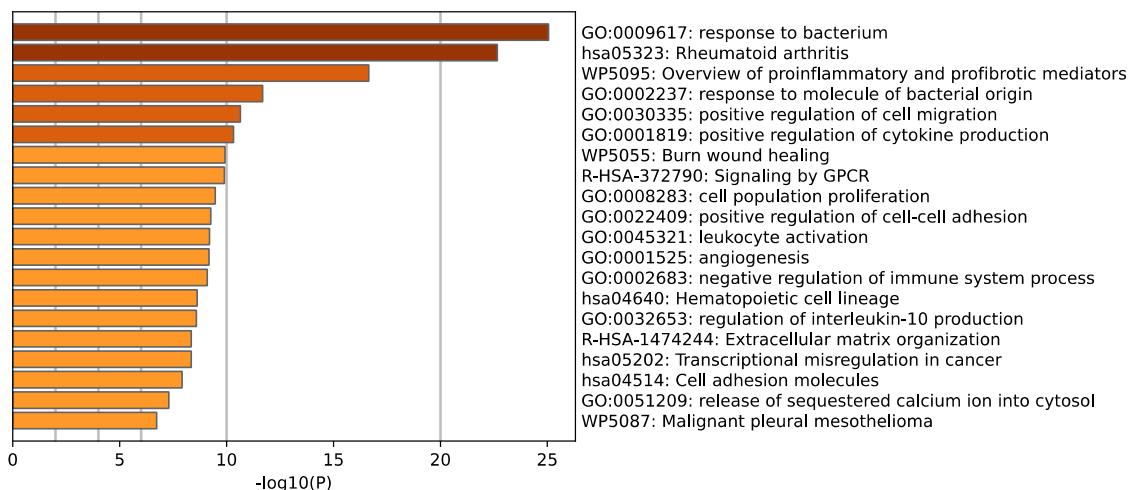
		FAM86C1, SIRT4, BBOX1, LOC105371226, DLX5, VASH1, PDZD3, SPACA9, HIST1H2BB, TAL1, GOLGA6L6, LINC01241, LOC100505824, OR10A4, GDPD2, THSD4-AS1, RPUSD3, GUCA2A, TTC34, LOC284630, DIP2B, TRIM8, CYP2C9, DKFZP434L187, NAV3, OR2B2, POU2F3, IVL, CACNB2, CNGA3, LARP4B, PCDHGA11, PCDHGC3, SH2D6, GUCA2B, LINC01029, ADGRF1, IQGAP2, SLC26A3, SVOP, C3orf62, CHP2, PDZRN3, HOXB8, GART, LINC00901, CRB1, PAX7, C9orf84, ZNF443, RECK, CHST9, CA1, KLK15, PDSS2, LINC00550, C6orf1, PNPLA1, DCST2, MIR7-3HG, ANKS1B, IDUA, HAGLR, COG6, LOC100507654, LINC00853, SLCO1C1, DCT,	HGF, PDPN, KATNAL1, IGFBP5, PDLM4, ABTB1, PTGFR, PAPPA, ETV1, ZEB2, KLHL6, IL13RA2, IL4I1, TNC, TFPI2, NRCAM, MEIS1, AKAP12, DZIP1, IL11, MGC40069, TRAC, TRAJ17, TRAV20, TRDV2, YME1L1, ERO1B, ANGPTL2, , MAF, WNT5A, RGS5, RNF24, SPG20, RHOJ, IL7R, RASSF9, CYLD, CSF3, TMOD1, FBN1, FGF7P3, FGF7P6, FGF7, SPOCK1, TYSND1, KCNN3, TMEM207, TAGAP, XCL2, XCL1, ZNF559, IGLV6-57, IGHV4-31, IGHM, IGHG3, IGHG1, IGHD, IGHA1, SLA2, SNX29, Sep-06, C1S, CBARP, ZNF287, WTAP, RAB39B, DMC1, KIAA1462, PTGS2, C11orf96, S100A8, MMP3, CXCL6, SMIM4, CD86, STC1, IGHV4-31, IGHM, IGHG3, IGHG1, IGHD, IGHA2, IGHA1, FLT1, LILRB3, BICC1, IGHD, TXLNB, MR1, FAP, DUSP2, IGHV3-23, IGHV4-31, IGHM, IGHG1, IGHA1, SSX4B, SSX4, LILRA2, CXCL5, IL23A, TRBV19, IL6, GPR183, IL24, INHBA, ANGPT2, RGS1, AOX1, SDC2, CCL2, CLEC4E, FCGR2B, ARHGAP25, ZSCAN12, IGHV3-23, IGHV4-31, IGHM, IGHG3, IGHG1, IGHA2, IGHA1, LILRB2, IGLJ3, CKAP2, CCL8, DKK3, LOC101927933, LRRC8C, MME, TNFRSF11B, FYB, FAM49A, ZNF613, MYO1G, MMP10, CYAT1, PLAU, CCL22, LOC285957, LOC102725271, NTM, LOC101060091, KANK3, IGK, CHST11, MEOX2, RBMS1, P2RY13, LINC00888, IGKC, CALCRL, MANEA, TNFRSF4, VPS53, STEAP4, CSF2, IGLV1-44, PCBP3, MAST1, SYNE1, GLT1D1, LOC100293211, GLIS3, IGK, IGKC, SCNN1G, SLC5A12, NRP1, ZEB1, SLC6A6, CCDC88A, NRG1, DCN, MIPOL1, PRKAA2, THBD, IGHM, SLC6A15, IGLJ3, GPR37, P2RX7, SELE, SNORA11E, SNORA11D, MAGED4, MAGED4B, BRE-AS1, PMP2, JAK3,
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		CDH26, C8G, GP5, CDHR5, IGHG1, KLHL20, RGL3, LINC01568, LOC643201, PDZK1, LOC102723648, DEFB105B, DEFB105A, NAALAD2, AKAP14, MIR99AHG, PSMG4, METAP2, RP1, TCF24, BEST4, RETNLB, ADAM30, LINC00427, LOC253573, NLRP2, EBF2, AQP8, LOC441666, LOC100996809, HLA-DRB5, HLA- DRB4, HLA-DRB3, HLA-DRB1, CLDN8, XIST, HLA-DQB1	MIR100HG, JAM3, HYPM, LILRA6, VCAN, TLR2, GZMK, ZNF710, DNAH1, LOC102723407, IGHV4-31, IGHM, IGHG4, IGHG1, IGHA2, IGHA1, CTB- 12O2.1, S1PR3, TCF4, MECP2, IGLC1, FGF7, FZD2, PPM1K, DNAAF1, MAK, FST, CD84, S100B, ACAP1, PTHLH, PI15, COL8A1, IGHV4-31, IGHA1, DIO2, NR4A3, SAMD4A, EBF1, SERPINE1, NSUN3, ITPR1, TNFAIP6, TIMP3, DPY19L2P2, SCARA3, IGSF6, IGLL5, LOC102725526, IGHV4-31, IGHM, IGHG3, IGHG2, IGHG1, IGHA2, IGHA1, IGH, THSD7A, CCL18, GABRA2, GAS1, TEAD2, RGS4, KCNJ15, ZMYM2, TREM1, C5orf47, MCF2L2, RTN1, IGHV4- 31, IGHM, IGHG1, IGHA1, BCL2A1, ERFE, CCL5, AGK, CP, FLYWCH1, IKZF3, SV2B, PTPRC, EDNRA, PROK2, MMP8, SEMA3A, CYR61, SEL1L2, GPR37, IGKV1OR2-108, RFTN2, CLMP, PKHD1L1, LILRA3, AQP9, LOC100506538, IFI44L, PACRG, PLD5, P2RY8, WNT16, MIR675, H19, PCOLCE, ZNF391, IGHV4-31, IGHM, IGHG4, IGHG3, IGHG1, IGHD, IGHA2, IGHA1, IGH, OMD, TPSAB1, SLC25A53, LINC01424, LOC780529, CYP24A1, MSX1, IGLJ3, CKAP2, IGLV@, IGLC1, MDFIC, RASSF5, ABCC9, IGLJ3, IGLV1- 44, CKAP2, IGLV@, IGLC1, SH2D1A, TRPC4, ACSL4, FCRLB, CD28, FAM20A, COL12A1, RASGRF1, TRDN, FPR2, FAM126A, CDH19, SLC16A10, CHI3L1, ZNF80, MBLAC2, MNDA, EBI3, CCL3L3, CCL3L1, CCL3, FGF2, CNOT2, PNOC, PRRX1, SMARCA1, RBMS3, UMODL1, ACOD1, WDR17, PAK3, GALNT15, LOC101927482, LCA5, ADAMTS1, COL6A1, SAMS1, CCDC141, CEMIP, CFTR, IGHM, IGHG1, IGHA1, TENM3, PARPBP, LOC101928728, TLR8, ITPR2, HCAR3, C17orf78, CXCL8, ART4, ADAMTS2, SIX4, CYP26B1, EMB,
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			SLC25A30, ZNF208, PADI4, NAPSB, MYL9, LOC645485, IGHV4-31, IGHM, IGHG4, IGHG3, IGHG1, IGHD, IGHA2, IGHA1, FNDC1, AGTPBP1, IGHM, IGHG1, NKAIN2, AGTR2, ZNF826P, EBF3, GABRB1, FCRLA, RASSF8, HSF5, NAA16, GREB1, VMO1, LILRB1, ZNF678, NLGN4Y, CYP7A1, NPY2R, MCF2, RGS13, KLK7, MMP1, ASPN, ERAP1, C11orf58, KRT6C, KRT6B, KRT6A, IGHV1-69, STAP1, UGT2B17,
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Figure S2 Gene term enrichment analysis of the 437 DEGs of dataset GSE14580 (RE vs NRE)

(A) Pathway analysis:



(B) Transcription factors:

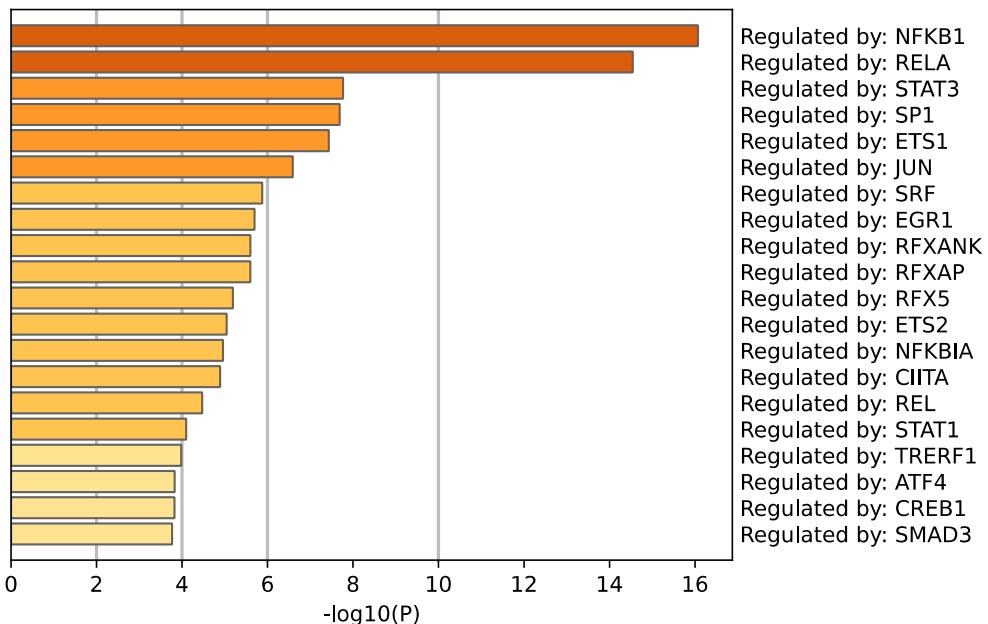


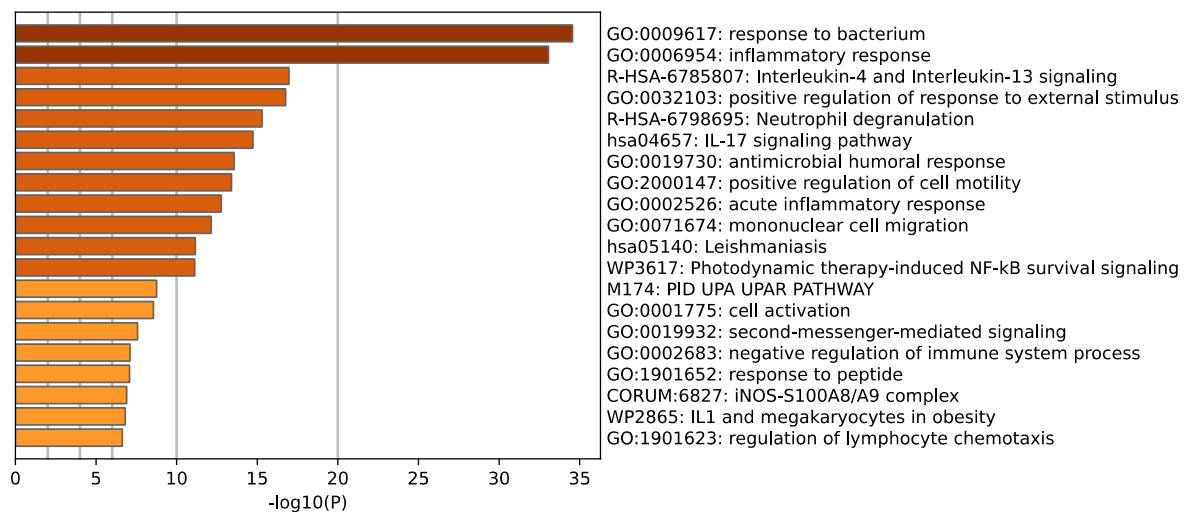
Table S5: List of genes that are differently expressed in GSE73661 (RE vs NRE)

Dataset	Condition	List of genes (138)	
		Upregulated (28)	Downregulated (110)
GSE73661	RE	SLC26A2, AQP8, CHP2, PADI2, UGT2A3, ABCB1, MT1M, HAVCR1, ADH1C, TMIGD1, GUCA2A, CWH43, TRPM6, GLRA2, PCK1, CPA6, BEST2, HMGCS2, GUCA2B, HEPACAM2, CAPN13, CA7, SCNN1B, CA1,	FCGR3B, FCGR3A, STC1, KYNU, IGK, IGKC, SCFV, IGHM, SCFV, IGHV3-30, SELE, , ITGAX, CXCL8, IGKC, SCFV, IGLJ3, IGHM, IGHAI1, SCFV, C14orf99, IGK, IGKV3-20, IGHV3-23, IGHV3-30, IGHV3-48, IGHV3-69-1, SLC7A11, ADGRE2, IGHM, IGHV3-48, IGHV3-69-1, IGHM, IGHG1, IGHD, IGHAI2, IGHAI1, IGHAI2, IGHAI1, IGH, SCFV, IGLJ3, IGHV3-23, IGHV4- 31, IGHM, IGHG2, IGHG1, IGHAI1, SCFV, C14orf99, IGK, IGKV3-20, IGHV3-23, IGHV3-30, IGHV3-48, IGHV3-75, IGHV3-69-1, IGHV3OR16-7, PIM2, CSF3R, SAA2, MMP10, SCFV, IGLJ3, IGHV3-23, IGHV3-41, IGHV4-31, IGHM, IGHG2, IGHG1, IGHAI1, IGH, C14orf99, IGK, IGKV3-20, IGHV3-23, IGHV3-48, IGHV3- 75, IGHV3-69-1, IGHV3OR16-7, AQP9, IGLJ3, IGHV3-23, IGHV4-31, IGHM, IGHG1, IGHAI1, SCFV, C14orf99, IGK, IGKV3-20, IGHV3-23,

	ZG16, OTOP2, ABCG2	IGHV3-48, IGHV3-69-1, IGHV3OR16-7, PLAU, S100A8, S100A9, SCFV, IGLJ3, IGHM, IGHG1, IGHD, C14orf99, IGHV3-48, IGHV3-69-1, IGHA1, SCFV, C14orf99, IGHV3-48, IGHV3-69-1, FCRL5, IGHV3-69-1, IGHV3OR16-7, CXCR1, CXCL1, MMP3, SLC6A14, MIR155, MIR155HG, LOC102723407, IGHV4-31, IGHM, IGHD, IGHA2, LOC102723407, SKAP2, IGHA2, IGHA1, IGH, CHI3L1, IGHV3-48, IGHV3-69-1, IGHV3OR16-7, TNFRSF17, CYTIP, SERPINE1, TNIP3, VNN2, SRGN, FPR1, FCGR1CP, FCGR1B, FCGR1A, LAX1, NCF2, RAB31, SLAMF7, SAA1, CXCR2, MNDA, IL1B, STEAP4, PLEK, MMP12, FPR2, ABCA12, TREM1, PLA2G7, CCL4L1, CCL4L2, CCL4, CCL4L1, ACSL4, SELP, CD274, GBP5, VSIG1, ANXA1, IL6, SERPINB3, MMP1, FCGR2A, SERPINB4, OSM, PTGS2, CEMIP, FCGR2C, FCGR2B, OSMR, IL13RA2, JCHAIN, CCL2, CCL2, SLC26A4, NOS2, TNFAIP6, MMP9, HCAR3, EVI2B, MMP7, SERPINB7, S100A12, CCL18, TCN1, DUOXA2, SERPINA3, INHBA, INHBA, CXCL9, ACKR4, CD180, LY96, CD79A, IDO1, IGSF6, IGFBP5, TNC, C4BPA, SELL, DSG3, LCN2, REG1B, CXCL10, CXCL13
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Figure S3 Gene term enrichment analysis of the 138 DEGs of dataset GSE73661 (RE vs NRE)

(A) Pathway analysis:



(B) Transcription factors:

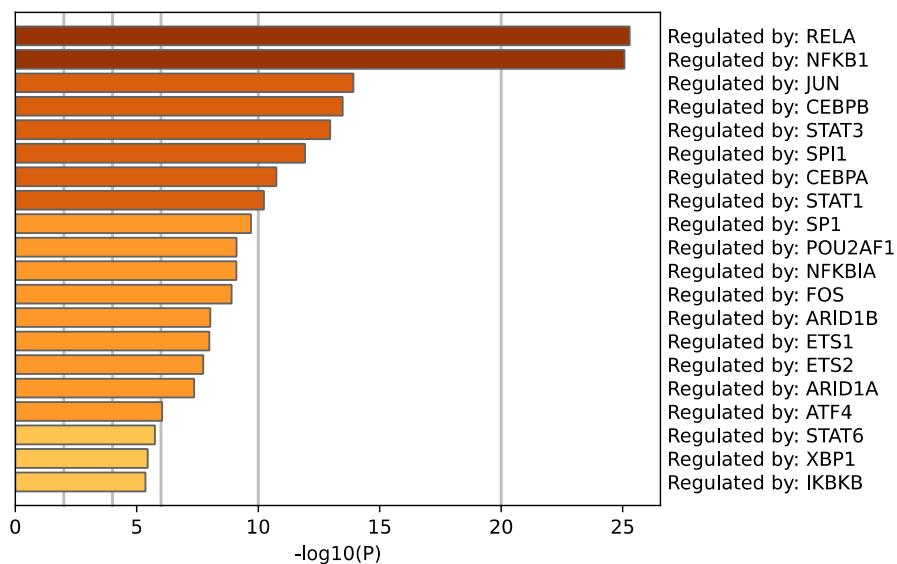
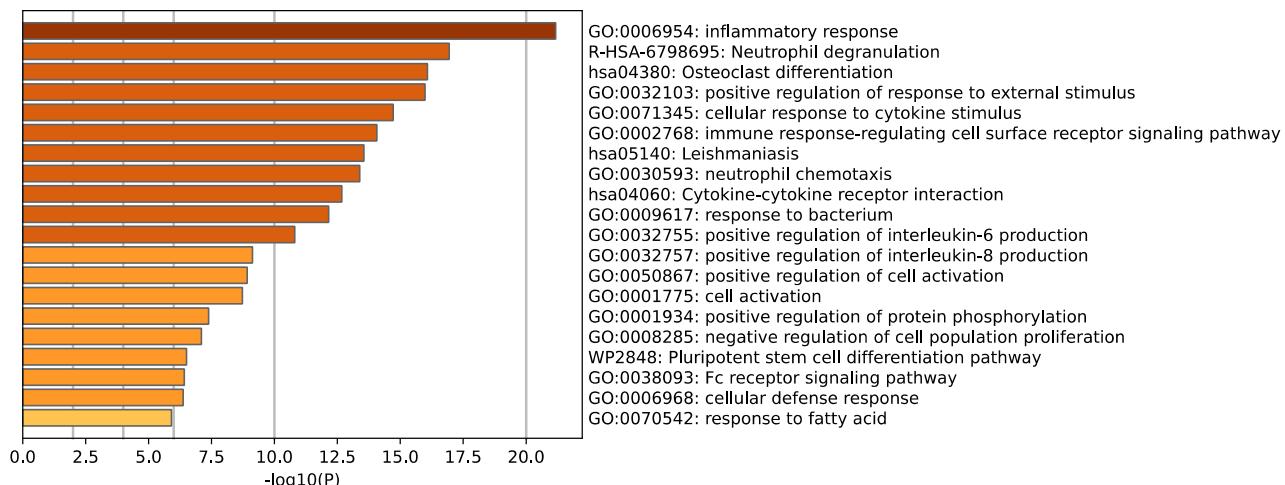


Table S6: List of genes that are differently expressed in GSE12251 (RE vs NRE)

Dataset	Condition	List of genes (88)	
GSE12251	RE	Upregulated (7)	Downregulated (81)
		WNK2, CNTN3, ZBED3, HAPLN1, DYRK1A, PCDH20, HLA-DRB4	G0S2, HCAR3, LILRA3, TLR2, STC1, KCNJ15, IL1B, FPR2, APOBEC3A_B, APOBEC3A, IL1RN, PTGS2, TNFAIP6, TREM1, TNFRSF11B, CREB5, CSF3R, BCL6, NAMPT, C5AR1, NKAPL, ACSL1, CEMIP, FCGR1B, OSM, FPR1, ARL11, CXCR1, CMTM2, OLR1, SRGN, CXCL8, IL11, FCGR3B, FCGR3A, PROK2, LOC100129518, SOD2, TNFRSF10C, FCN1, CXCL11, PI15, TAGAP, PLEK, ADGRG3, PAPPA, STEAP4, PDE4B, DGAT2, MNDA, BCL2A1, GLT1D1, LILRA5, AQP9, FCGR3B, LOC106146153, FCGR1CP, FCGR1B, FCGR1A, MGAM, S100A12, CYP4F3, FFAR2, CXCR2, CLEC7A, IFIT2, LOC401317, CREB5, INHBA, WNT5A, LILRA2, TFPI2, SIRPB1, LILRB2, CLEC4D, FCGR2C, CLEC4E, IL18RAP, SELE, ACOD1, IL1A, GPR84, HGF, SLC1A3, NCF2, MME, EREG

Figure S4 Gene term enrichment analysis of the 88 DEGs of dataset GSE12251 (RE vs NRE)

(A) Pathway analysis:



(B) Transcription factors:

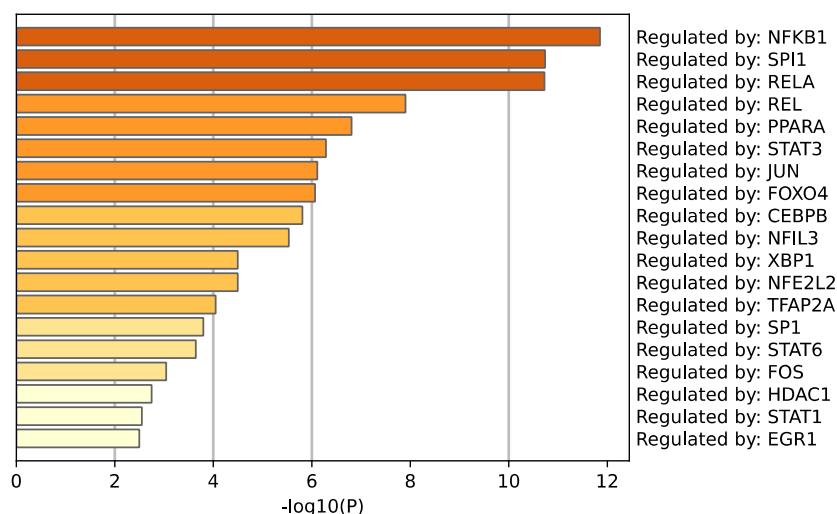


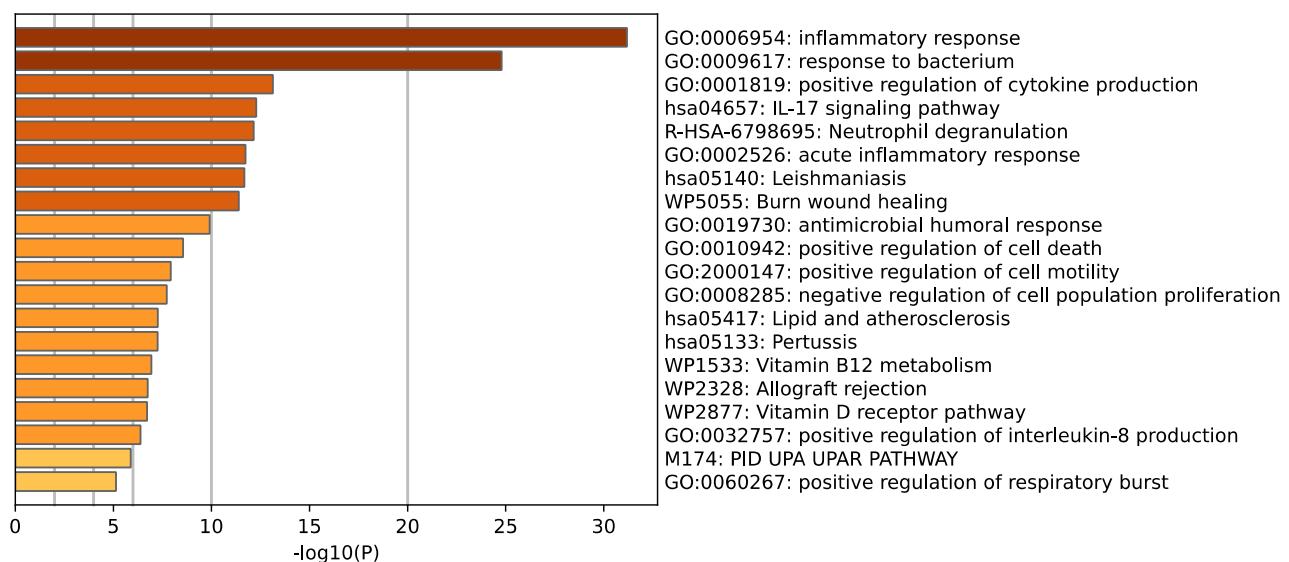
Table S7: List of genes that are differently expressed in GSE23597 (RE vs NRE)

Dataset	Condition	List of genes (129)	
GSE23597	RE	Upregulated (16)	Downregulated (113)
		LOC101929148, TTTY14, MCMDC2, FAM189A1, C2orf82, EIF1AY, HLA-DQA1, UGT2A3, WSCD1, NTRK2,	CXCL5, CXCR2, HLA-DQB1, LOC106146153, SRGN, NAMPT, TAGAP, FCGR3B, RGS5, FFAR2, CSF3R, AQP9, LOC101060835, HLA-DQB1, SPP1, LYZ, S100A8, FPR1, LOC401317, CREB5, LOC100509457, HLA-DQA1, FPR2, TREM1, CLEC7A, CDC42EP2, MNDA, CHI3L1, CCDC3, ADGRF5, FCGR2A, KCNJ15, HCAR3, OSM, TNFAIP6, C4B_2, C4B, C4A, CXCR1, FCGR3B, FCGR3A, IGHV4-31, IGHM, IGHG4,

		TXLNGY, C7orf57, USP9Y, RPS4Y1, DDX3Y, CNTN3	IGHG3, IGHG1, IGHD, IGHA2, IGHA1, IGHM, FAP, S100A9, NCF2, KYN, COL8A1, , CTHRC1, IGHM, IGHG1, IGHA1, IL1B, CXCL1, CMTM2, SAA2-SAA4, SAA2, SAA1, SELE, LCN2, CXCL8, G0S2, VNN2, LPL, PRRX1, NLRC4, HGF, INHBA, TNIP3, MGAM, BCL2A1, ADAMTS2, CLEC4E, IGHM, IGHG1, LRRC25, PROK2, MSX2, PHACTR1, SAA2, SAA1, TNFRSF10C, GAS1, LOC100129518, SOD2, MZB1, TGM2, IGLV1-44, VNN1, VNN3, DUOXA2, FCGR2C, SAMD9L, LILRB2, IGHV4- 31, IGHM, IGHG4, IGHG3, IGHG1, IGHD, IGHA2, IGHA1, IGH, COL7A1, CCL3L3, CCL3L1, CCL3, ABCA12, IL1RN, IGFBP5, CCDC88A, GBP5, IGK, IGKC, TCN1, ADGRF1, CSF3, IL1A, SERPINE1, CXCL6, STS, FGF7, GJA4, FAM30A, IGHV4-31, IGHA1, IGLV6-57, FYB, PLEK, MMP3, PTGS2, PDPN, XIST, CD300A, IL24, TLR8, REG1A, IL13RA2
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Figure S5 Gene term enrichment analysis of the 129 DEGs of dataset GSE23597 (RE vs NRE)

(A) Pathway analysis:



(B) Transcription factors:

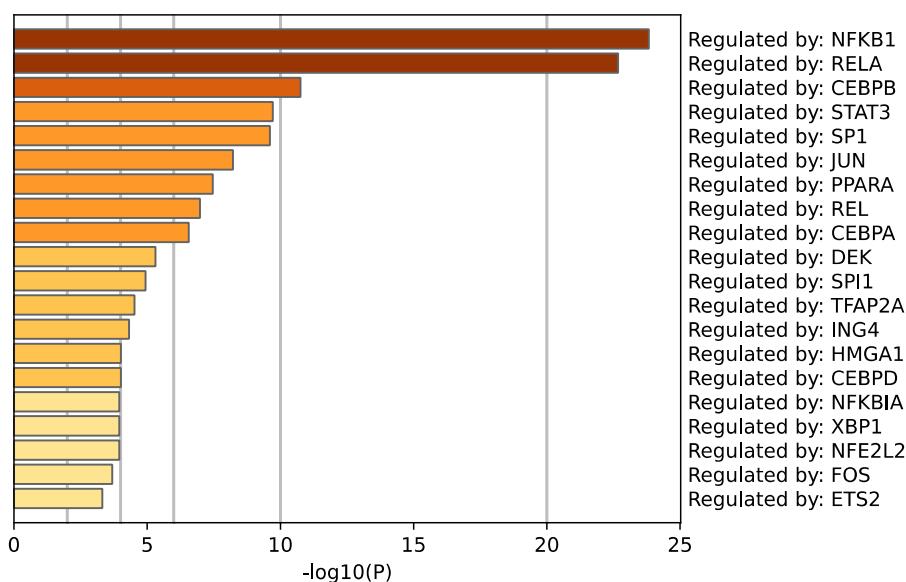


Table S8: List of genes that are differently expressed in GSE111761 (RE vs NRE)

Dataset	Condition	List of genes (2789)	
GSE111761	RE	Upregulated (1282)	Downregulated (1512)
		PLCD3, KLK1, KCNV1, CNTNAP2, LOC145837, PLEKHH1, BAIAP2L2, MYO1A, METTL7B, SGK2, FGFR3, F2RL1, C14orf176, SEMA4G, ENDOD1, CLDN8, BEST4, TMEM184A, PCSK6, FAAH, WSCD1, KBTBD11, GDA, ATG4D, LOC643650, SERF1B, GPD2, AKR1B10, PTPN20B, MALL, LRRC1, ANKS4B, THR8, RPRML, ARHGAP32, C19orf33, ACOT11, GNA11, SERF1A, GPR153, C11orf86, DHCR24, TACC2, ASL, FOXP2, VILL, GPR125, FAM47E, FLNB, CYCS, GFPT1, SVOP, C19orf21, LOC389332, GPR35, C11orf52, FLJ35024, TCF7L2, ACOX2, CBLC, ADAP1, FGF9, DHRS4L1, SERINC2, AKR7L, KAZALD1, ENTPD8,	SELL, LOC100129322, TDO2, S1PR4, FAM65B, CD70, , IGF2BP3, LOC151009, LYG2, LOC283710, LOC728684, IL17C, PGA3, SLAMF6, ZNF80, SSX3, NPBWR1, LOC100288292, RP11-165H20.1, TNXB, KLHL5, FAM153A, TSPAN32, KYNU, ZBED2, OR2T1, BCAT1, CTSL1P2, LOC150622, AIM2, FAM55C, FCRL5, RAB39B, COL27A1, ZBTB32, TLR9, TLL4, CTLA4, TNIP3, CCDC129, STMN1, TRIM27, PTPRC, CR1, ACOXL, OLFML2A, FAM159A, RRNAD1, HAPLN3, TTYH1, UBD, PHOSPHO1, CPNE5, KCNA2, ELOVL2, CXCL1, FBXO2, TRIM53P, POU2F2, EMB, ADA, GLCCI1, SP140, ORAI2, AAK1, LAX1, FLJ40039, WNT2, CFB, FYN,

		GOLT1A, PYGB, TRIM36, HAVCR1, PTPRK, CAMK2N1, GRTP1, NUDT12, PRELID2, GJB1, LEKR1, KLB, LIMA1, FGFBP1, RAPGEFL1, C20orf54, SDCBP2, AKR1B15, LGALSL, MMP15, MAGIX, ETFB, PAPSS2, LCE3B, C20orf118, TMEM97, ABCB1, MACROD2, PAQR5, OTOP2, F12, SCGN, CGN, CELA3B, ABCD3, NPY1R, AGPAT2, SST, ZNF575, HIGD1A, LETM1, CCNI2, NR5A2, CCDC85C, SH3D19, HOOK1, MYZAP, SLC25A34, ABHD11, SPR, SPINT2, RIMKLA, PTP4A1, ATPBD4, TMEM98, GSTA2, P2RY1, UGDH, SLC16A5, ZG16, PTPRN2, AKAP1, CCDC113, SLC16A9, FSIP2, FUT5, SLC38A4, MAMDC2, SYTL2, PEX11A, FAM59A, C17orf76, KLK15, GIPC2, FAM189A1, HRCT1, C1orf226, MARVELD2, HMGA2, PLAC2, C1orf210, GUCA2A, HES5, EPB41L1, AVPI1, TYRP1, LOC100130916, TBX10, SLC25A24, PGAP3, C8orf55, GPA33, EXPH5, MUC2, TJP3, YIF1B, NGEF, MYO1D, KIAA0284, CA7, AP1M2, GLYCTK, SPRYD7, SPINT1, OPHN1, VIPR1, CYP2J2, SCGB2A1, MACROD1, TMEM56, MAGI3, ELMO3, DDAH1, COL4A6, FABP1, TTR, POF1B, MGC34796, EPS8L2, NUDT8, NR2F6, SDR42E1, SHROOM2, NOSTRIN, IL22RA1, TAX1BP3, C21orf71, CDH1, C8orf83, CMTM4, AIMP2, PRSS3, RAP1GAP, FASN, PLEKHA5, PLXDC1, CLIP4, CHST11, HPX-2, ENTPD1, FRG2C, JAK3, CRTAC1, SOCS1, RNF170, CR1L, ODZ4, IDO1, SNX20, TBC1D3, SLC2A6, OR1S2, WIPF1, EPHB6, MORC1, SLA, TRIB2, BATF, TARP, PPP1R18, TNFRSF8, LRRK2, SERPINE1, TMEM154, RHBDLF2, ALOXE3, C16orf54, ALPK2, C9orf96, ITGAX, SLC6A6, RAB7L1, FOLH1B, RASSF5, FAM113B, IL15RA, PLEKHG2, BHLHE22, ZNF714, FAM126A, PTGFR, TNFRSF9, ADORA2A, GMFG, TXNDC11, RHOH, TAGAP, SH2D1A, PIM2, KRT73, SMR3A, CD28, FMNL1, OR1S1, C1R, BASP1, CTSK, ST6GAL1, MGC16025, C20orf201, TSC22D3, PNOC, MAG, CXCR4, GSC, TXLNB, CHRDL2, CYTH4, RAC2, CDK14, INSL3, LILRB1, RIMBP3, ANKRD55, HIVEP3, MR1, FLJ32255, CRABP2, RGS16, LRRC16B, IKBIP, ARHGDI, FAM92B, TMEM40, VAV1, CAMK1G, LOC338739, HAP1, IFI16, BNC1, TTC22, FCAR, GUCY1B3, ARHGAP25, GUCY1A3, IL6, TRIM46, CD5, KIAA0125, NOX4, FLJ41200, BVES, FSCN1, SERPING1, CORT, FCRLB, LOC284757, IL21, RASSF2, TGM2, KCNN3, ERC2, ACTR3BP5, EVI2A, LAT52, ADAMTS10, CXCL2, C5orf39, RASGRP2, TBC1D10C, DENND1C, NXPH4, TNF, FAM65C, NLRP1, FAM172BP, GPR132, FOXP3, EVI2B, CEP170, CMTM7, CD40, FBXO43, EGFRM1P, XBP1, BGN, LOC497256, CD53, PLEKHO1, FMNL3, AHSA2, KMO, CYTIP, PTP4A3, ICOS, CD79A, ANGPTL6, IL21R,
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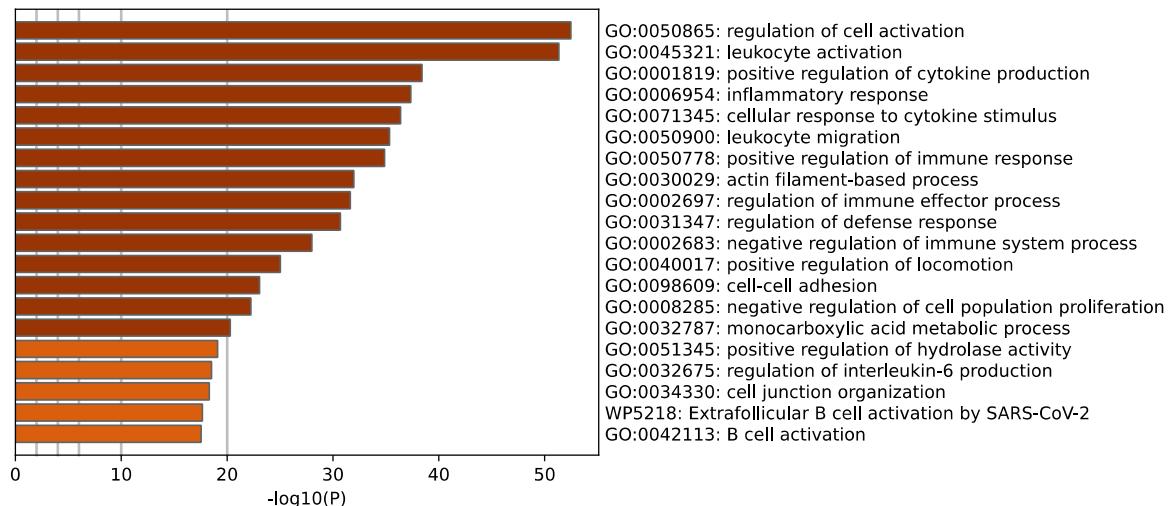
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Figure S6 Gene term enrichment analysis of the 2789 DEGs of dataset GSE111761 (RE vs NRE)

(A) Pathway analysis:



(B) Transcription factors:

