

Supplemental Table 2. Enriched GO terms associated with sex-wise differentially expressed (DE) genes

Enriched GO Terms	DE between PG female_vs_ male	DE between SLG female_vs_ male	DE between SMG female_vs_ male	IDs of the DE in PG associated with the enriched GO terms	IDs of the DE in SLG associated with the enriched GO terms	IDs of the DE in SMG associated with the enriched GO terms
Panel A: biological_process						
biological_process%%cellular response to interferon-beta%%GO:0035458				Gbp3;Ifit3;Igtg;Irgm	9930111J21Rik1;Ifi4	Gbp6;Ifi205;Ifit1;Ifit3;Igtg;Irgm2;Stat1;
biological_process%%cellular response to interferon-gamma%%GO:0071346				Ccl8;Gbp3;Gbp7;	Ccl19;Ccl22;Ccl4;Ccl	Ccl11;Ccl6;Ccl9;Gbp6;Irf8;Slc26a6;
biological_process%%innate immune response%%GO:0045087				Bp1fb1;Bst12;C1qa;C1	Btk;Cd84;Cfb;Grasp1	C1qa;C1qc;C1s;C3;Cd14;Cd55;Ddx58;Ifit1;Ifit2;Ifit3;Irf1;Irf7;Lcn2;Mif;Mx1;Oas12;Ppp14b;S100a8;S100a9;Spon2;
biological_process%%negative regulation of fibroblast growth factor receptor signaling pathway%%GO:0040037				Shisa2;Thbs1;	Ngfr;Wnt4;	Ngfr;Thbs1;Wnt4;
biological_process%%defense response to virus%%GO:0051607				Bst2;Dhx58;Eif2ak2;	Cd40;Gm14446;Ptpn	Ddx58;Ddx60;Ifit1;Ifit2;Ifit3;Irf1;Irf7;Irf8;Irf9;Mx1;Oas1b;Oas12;Spon2;
biological_process%%negative regulation of peptidase activity%%GO:0010466				Ecm1;Exp;Wfcd2;	Cst7;Ngf;Ngp;Serp	App;Bc048546;Gpc3;Ngf;P16;Serp1b1;Serp1b6a;Serp1b3;Wfcd12;
biological_process%%protein heterotrimerization%%GO:0070208				Col1a1;Col1a2;	Adipoq;	C1qtnf1;Col1a1;Col6a1;Col6a2;
biological_process%%adhesion of symbiont to host%%GO:0044406				Gbp3;Gbp7;	Gbp9;	Gbp6;
biological_process%%blood coagulation, fibrin clot formation%%GO:0072378				F13a1;Fgb;		
biological_process%%defense response to Gram-positive bacterium%%GO:0050830				Gbp3;Gbp7;Iyz2;	Gbp9;Ily27a;	Gbp6;Iyz1;Iyz2;Pld1;
biological_process%%glycerol biosynthetic process from pyruvate%%GO:0046327				Pck1;		
biological_process%%hyaloid vascular plexus regression%%GO:1990384				Nin1j1;		
biological_process%%mitochondrial electron transport, cytochrome c to oxygen%%GO:0006123				Cox5a;Cox8b;	Cox8b;	Cox5a;Cox8b;
biological_process%%negative regulation of angiogenesis%%GO:0016525				1190002H23Rik;Ptn	Cxcr3;Ngfr;Ngp;	Amot;Cd59a;Ngfr;Ptn;Stat1;Thbs1;
biological_process%%negative regulation of blood coagulation%%GO:0030195				Apoe;Cd34;	Tspan8;	Cd34;Thbd;
biological_process%%negative regulation of blood vessel endothelial cell migration%%GO:0043537				1190002H23Rik;Apoe;Thbs1;	Thbs1;	Thbs1;
biological_process%%negative regulation of cGMP-mediated signaling%%GO:0010754				Thbs1;		Thbs1;
biological_process%%negative regulation of cellular response to heat%%GO:1900035				Cd34;		Cd34;
biological_process%%negative regulation of dendritic cell antigen processing and presentation%%GO:0002605				Thbs1;		Thbs1;
biological_process%%negative regulation of double-strand break repair via nonhomologous end joining%%GO:2001032				Hsf1;	1190002H23Rik;Apx	Cxcr3;
biological_process%%negative regulation of endothelial cell proliferation%%GO:0001937				1190002H23Rik;		Stat1;Thbs1;
biological_process%%negative regulation of exit from mitosis%%GO:0001100				Idh2;Ptn;		Ptn;
biological_process%%negative regulation of glial cell proliferation%%GO:0060253				Stat1;		Stat1;
biological_process%%negative regulation of macrophage fusion%%GO:0034240				Idh2;		
biological_process%%negative regulation of matrix metalloproteinase secretion%%GO:1904465				Apoe;		
biological_process%%negative regulation of presynaptic membrane organization%%GO:1901630				Bst2;Eif2ak2;Isg15;R	Ccl5;	Isg15;
biological_process%%negative regulation of viral genome replication%%GO:0045071				Ckm;		
biological_process%%phosphocreatine biosynthetic process%%GO:0046314				1190002H23Rik;Thb	Cd40;	Cd248;Thbs1;
biological_process%%positive regulation of endothelial cell apoptotic process%%GO:2000353				Apoe;		
biological_process%%positive regulation of lipid transport across blood brain barrier%%GO:1903002				Hsf1;		
biological_process%%positive regulation of transcription from RNA polymerase II promoter in response to heat stress%%GO:0008002				Cd34;Thbs1;		Cd34;Thbs1;
biological_process%%positive regulation of transforming growth factor beta production%%GO:0071636				Irf7;		Irf7;
biological_process%%regulation of MyD88-independent toll-like receptor signaling pathway%%GO:0034127				Bst2;Eif2ak2;	Tgtp1;	
biological_process%%response to interferon-alpha%%GO:0035455				Bst2;Stat1;Xaf1;	Ikbke;	Stat1;Xaf1;
biological_process%%response to interferon-beta%%GO:0035456				Ifit3;Ly6d;Usp18;	Ly6d;	Ifit3;Ly6d;Usp18;
biological_process%%response to stilbenoid%%GO:0035634				Isg15;Stat1;	Ikbke;	Isg15;Stat1;
biological_process%%response to type I interferon%%GO:0034340				Casq1;Krt19;Mybp;c	Krt19;	Capn3;Casq2;
biological_process%%sarcomere organization%%GO:0045214				Col1a1;Col1a2;		Col1a1;
biological_process%%skin morphogenesis%%GO:0043589				Ma1;		
biological_process%%transcription factor TFIIIB complex assembly%%GO:0070217				Ccl8;Ecm1;Thbs1;	Ccl19;Ccl22;Ccl4;Ccl	Attn;C3;Ccl11;Ccl6;Ccl9;Ccl14;Ccl13;Ggt15;Itgb6;Mif;Ngfr;Odam;S100a8;S100a9;Sphk1;Thbs1;Tnfrsf11b;Tpsb2;
biological_process%%inflammatory response%%GO:0006954				Cd34;Ecm1;Thbs1;	Ccl5;Cxcr3;Ets1;Itgb	C3;Ccl11;Cd34;Epha1;Fgf1;Hipk2;Hspb6;Lrg1;Sphk1;Thbs1;Vegfa;
biological_process%%positive regulation of angiogenesis%%GO:0045766					Wnt4;	Sox9;Wnt4;
biological_process%%renal vesicle induction%%GO:0072034					Bank1;Blnk;Cd40;Icos;Lat2;Lax1;Plk3cd;Prkcb;	
biological_process%%KB cell activation%%GO:0042113					Dock10;Mef2c;Nek6	Spm2;
biological_process%%KB cell homeostasis%%GO:0001782					Cd79b;Klhl6;Lat2;Lck;Mef2c;Nckap1;Ptcg2;Prkcb;Ptpn6;Ptpnrc;	
biological_process%%KB cell receptor signaling pathway%%GO:0050853					Card11;Ccl19;Cd28;Cd3e;Spn;Tnfrsf13c;	
biological_process%%T cell costimulation%%GO:0031295					Itgb7;Msn;Myo1g;Slpr1;	
biological_process%%T cell migration%%GO:0072678					Lef1;Tcf7;	
biological_process%%T cell receptor V(D)J recombination%%GO:0033153					Cd28;Cd3e;Lcp2;Pde	Rbck1;Thy1;
biological_process%%T cell receptor signaling pathway%%GO:0050852					Emr1;Fgb;Unc93b1;	Btk;Cd4;Cd79b;Cd7;
biological_process%%adaptive immune response%%GO:0002250					Wnt4;	Wnt4;
biological_process%%androgen biosynthetic process%%GO:0006702					H2-DMa;H2-DMb2j	Irf30;
biological_process%%antigen processing and presentation of exogenous peptide antigen via MHC class II%%GO:0019818					Adig;Adipoq;Fabp4;Adig	Ar14a;Lrg1;Plac8;Slc2a4;
biological_process%%brown fat cell differentiation%%GO:0050873					Atp1a2;Bsnd;Camk2	Camk2d;
biological_process%%cellular potassium ion homeostasis%%GO:0030007					Adipoq;Ccl4;Cd69;M	Mcp11;Myk;Pde2a;
biological_process%%cellular response to drug%%GO:0035690					Ccl19;Ccl22;Ccl4;Ccl	Ccl11;Ccl6;Ccl9;Ccl12;Ccl13;Ccl14;Ccl15;Ccl16;Ccl17;Ccl18;Ccl19;Ccl20;Ccl21;Ccl22;Ccl23;Ccl24;Ccl25;Ccl26;Ccl27;Ccl28;Ccl29;Ccl30;Ccl31;Ccl32;Ccl33;Ccl34;Ccl35;Ccl36;Ccl37;Ccl38;Ccl39;Ccl40;Ccl41;Ccl42;Ccl43;Ccl44;Ccl45;Ccl46;Ccl47;Ccl48;Ccl49;Ccl50;Ccl51;Ccl52;Ccl53;Ccl54;Ccl55;Ccl56;Ccl57;Ccl58;Ccl59;Ccl60;Ccl61;Ccl62;Ccl63;Ccl64;Ccl65;Ccl66;Ccl67;Ccl68;Ccl69;Ccl70;Ccl71;Ccl72;Ccl73;Ccl74;Ccl75;Ccl76;Ccl77;Ccl78;Ccl79;Ccl80;Ccl81;Ccl82;Ccl83;Ccl84;Ccl85;Ccl86;Ccl87;Ccl88;Ccl89;Ccl90;Ccl91;Ccl92;Ccl93;Ccl94;Ccl95;Ccl96;Ccl97;Ccl98;Ccl99;Ccl100;Ccl101;Ccl102;Ccl103;Ccl104;Ccl105;Ccl106;Ccl107;Ccl108;Ccl109;Ccl110;Ccl111;Ccl112;Ccl113;Ccl114;Ccl115;Ccl116;Ccl117;Ccl118;Ccl119;Ccl120;Ccl121;Ccl122;Ccl123;Ccl124;Ccl125;Ccl126;Ccl127;Ccl128;Ccl129;Ccl130;Ccl131;Ccl132;Ccl133;Ccl134;Ccl135;Ccl136;Ccl137;Ccl138;Ccl139;Ccl140;Ccl141;Ccl142;Ccl143;Ccl144;Ccl145;Ccl146;Ccl147;Ccl148;Ccl149;Ccl150;Ccl151;Ccl152;Ccl153;Ccl154;Ccl155;Ccl156;Ccl157;Ccl158;Ccl159;Ccl160;Ccl161;Ccl162;Ccl163;Ccl164;Ccl165;Ccl166;Ccl167;Ccl168;Ccl169;Ccl170;Ccl171;Ccl172;Ccl173;Ccl174;Ccl175;Ccl176;Ccl177;Ccl178;Ccl179;Ccl180;Ccl181;Ccl182;Ccl183;Ccl184;Ccl185;Ccl186;Ccl187;Ccl188;Ccl189;Ccl190;Ccl191;Ccl192;Ccl193;Ccl194;Ccl195;Ccl196;Ccl197;Ccl198;Ccl199;Ccl200;Ccl201;Ccl202;Ccl203;Ccl204;Ccl205;Ccl206;Ccl207;Ccl208;Ccl209;Ccl210;Ccl211;Ccl212;Ccl213;Ccl214;Ccl215;Ccl216;Ccl217;Ccl218;Ccl219;Ccl220;Ccl221;Ccl222;Ccl223;Ccl224;Ccl225;Ccl226;Ccl227;Ccl228;Ccl229;Ccl230;Ccl231;Ccl232;Ccl233;Ccl234;Ccl235;Ccl236;Ccl237;Ccl238;Ccl239;Ccl240;Ccl241;Ccl242;Ccl243;Ccl244;Ccl245;Ccl246;Ccl247;Ccl248;Ccl249;Ccl250;Ccl251;Ccl252;Ccl253;Ccl254;Ccl255;Ccl256;Ccl257;Ccl258;Ccl259;Ccl260;Ccl261;Ccl262;Ccl263;Ccl264;Ccl265;Ccl266;Ccl267;Ccl268;Ccl269;Ccl270;Ccl271;Ccl272;Ccl273;Ccl274;Ccl275;Ccl276;Ccl277;Ccl278;Ccl279;Ccl280;Ccl281;Ccl282;Ccl283;Ccl284;Ccl285;Ccl286;Ccl287;Ccl288;Ccl289;Ccl290;Ccl291;Ccl292;Ccl293;Ccl294;Ccl295;Ccl296;Ccl297;Ccl298;Ccl299;Ccl300;Ccl301;Ccl302;Ccl303;Ccl304;Ccl305;Ccl306;Ccl307;Ccl308;Ccl309;Ccl310;Ccl311;Ccl312;Ccl313;Ccl314;Ccl315;Ccl316;Ccl317;Ccl318;Ccl319;Ccl320;Ccl321;Ccl322;Ccl323;Ccl324;Ccl325;Ccl326;Ccl327;Ccl328;Ccl329;Ccl330;Ccl331;Ccl332;Ccl333;Ccl334;Ccl335;Ccl336;Ccl337;Ccl338;Ccl339;Ccl340;Ccl341;Ccl342;Ccl343;Ccl344;Ccl345;Ccl346;Ccl347;Ccl348;Ccl349;Ccl350;Ccl351;Ccl352;Ccl353;Ccl354;Ccl355;Ccl356;Ccl357;Ccl358;Ccl359;Ccl360;Ccl361;Ccl362;Ccl363;Ccl364;Ccl365;Ccl366;Ccl367;Ccl368;Ccl369;Ccl370;Ccl371;Ccl372;Ccl373;Ccl374;Ccl375;Ccl376;Ccl377;Ccl378;Ccl379;Ccl380;Ccl381;Ccl382;Ccl383;Ccl384;Ccl385;Ccl386;Ccl387;Ccl388;Ccl389;Ccl390;Ccl391;Ccl392;Ccl393;Ccl394;Ccl395;Ccl396;Ccl397;Ccl398;Ccl399;Ccl400;Ccl401;Ccl402;Ccl403;Ccl404;Ccl405;Ccl406;Ccl407;Ccl408;Ccl409;Ccl410;Ccl411;Ccl412;Ccl413;Ccl414;Ccl415;Ccl416;Ccl417;Ccl418;Ccl419;Ccl420;Ccl421;Ccl422;Ccl423;Ccl424;Ccl425;Ccl426;Ccl427;Ccl428;Ccl429;Ccl430;Ccl431;Ccl432;Ccl433;Ccl434;Ccl435;Ccl436;Ccl437;Ccl438;Ccl439;Ccl440;Ccl441;Ccl442;Ccl443;Ccl444;Ccl445;Ccl446;Ccl447;Ccl448;Ccl449;Ccl450;Ccl451;Ccl452;Ccl453;Ccl454;Ccl455;Ccl456;Ccl457;Ccl458;Ccl459;Ccl460;Ccl461;Ccl462;Ccl463;Ccl464;Ccl465;Ccl466;Ccl467;Ccl468;Ccl469;Ccl470;Ccl471;Ccl472;Ccl473;Ccl474;Ccl475;Ccl476;Ccl477;Ccl478;Ccl479;Ccl480;Ccl481;Ccl482;Ccl483;Ccl484;Ccl485;Ccl486;Ccl487;Ccl488;Ccl489;Ccl490;Ccl491;Ccl492;Ccl493;Ccl494;Ccl495;Ccl496;Ccl497;Ccl498;Ccl499;Ccl500;Ccl501;Ccl502;Ccl503;Ccl504;Ccl505;Ccl506;Ccl507;Ccl508;Ccl509;Ccl510;Ccl511;Ccl512;Ccl513;Ccl514;Ccl515;Ccl516;Ccl517;Ccl518;Ccl519;Ccl520;Ccl521;Ccl522;Ccl523;Ccl524;Ccl525;Ccl526;Ccl527;Ccl528;Ccl529;Ccl530;Ccl531;Ccl532;Ccl533;Ccl534;Ccl535;Ccl536;Ccl537;Ccl538;Ccl539;Ccl540;Ccl541;Ccl542;Ccl543;Ccl544;Ccl545;Ccl546;Ccl547;Ccl548;Ccl549;Ccl550;Ccl551;Ccl552;Ccl553;Ccl554;Ccl555;Ccl556;Ccl557;Ccl558;Ccl559;Ccl560;Ccl561;Ccl562;Ccl563;Ccl564;Ccl565;Ccl566;Ccl567;Ccl568;Ccl569;Ccl570;Ccl571;Ccl572;Ccl573;Ccl574;Ccl575;Ccl576;Ccl577;Ccl578;Ccl579;Ccl580;Ccl581;Ccl582;Ccl583;Ccl584;Ccl585;Ccl586;Ccl587;Ccl588;Ccl589;Ccl590;Ccl591;Ccl592;Ccl593;Ccl594;Ccl595;Ccl596;Ccl597;Ccl598;Ccl599;Ccl600;Ccl601;Ccl602;Ccl603;Ccl604;Ccl605;Ccl606;Ccl607;Ccl608;Ccl609;Ccl610;Ccl611;Ccl612;Ccl613;Ccl614;Ccl615;Ccl616;Ccl617;Ccl618;Ccl619;Ccl620;Ccl621;Ccl622;Ccl623;Ccl624;Ccl625;Ccl626;Ccl627;Ccl628;Ccl629;Ccl630;Ccl631;Ccl632;Ccl633;Ccl634;Ccl635;Ccl636;Ccl637;Ccl638;Ccl639;Ccl640;Ccl641;Ccl642;Ccl643;Ccl644;Ccl645;Ccl646;Ccl647;Ccl648;Ccl649;Ccl650;Ccl651;Ccl652;Ccl653;Ccl654;Ccl655;Ccl656;Ccl657;Ccl658;Ccl659;Ccl660;Ccl661;Ccl662;Ccl663;Ccl664;Ccl665;Ccl666;Ccl667;Ccl668;Ccl669;Ccl670;Ccl671;Ccl672;Ccl673;Ccl674;Ccl675;Ccl676;Ccl677;Ccl678;Ccl679;Ccl680;Ccl681;Ccl682;Ccl683;Ccl684;Ccl685;Ccl686;Ccl687;Ccl688;Ccl689;Ccl690;Ccl691;Ccl692;Ccl693;Ccl694;Ccl695;Ccl696;Ccl697;Ccl698;Ccl699;Ccl700;Ccl701;Ccl702;Ccl703;Ccl704;Ccl705;Ccl706;Ccl707;Ccl708;Ccl709;Ccl710;Ccl711;Ccl712;Ccl713;Ccl714;Ccl715;Ccl716;Ccl717;Ccl718;Ccl719;Ccl720;Ccl721;Ccl722;Ccl723;Ccl724;Ccl725;Ccl726;Ccl727;Ccl728;Ccl729;Ccl730;Ccl731;Ccl732;Ccl733;Ccl734;Ccl735;Ccl736;Ccl737;Ccl738;Ccl739;Ccl740;Ccl741;Ccl742;Ccl743;Ccl744;Ccl745;Ccl746;Ccl747;Ccl748;Ccl749;Ccl750;Ccl751;Ccl752;Ccl753;Ccl754;Ccl755;Ccl756;Ccl757;Ccl758;Ccl759;Ccl760;Ccl761;Ccl762;Ccl763;Ccl764;Ccl765;Ccl766;Ccl767;Ccl768;Ccl769;Ccl770;Ccl771;Ccl772;Ccl773;Ccl774;Ccl775;Ccl776;Ccl777;Ccl778;Ccl779;Ccl780;Ccl781;Ccl782;Ccl783;Ccl784;Ccl785;Ccl786;Ccl787;Ccl788;Ccl789;Ccl790;Ccl791;Ccl792;Ccl793;Ccl794;Ccl795;Ccl796;Ccl797;Ccl798;Ccl799;Ccl800;Ccl801;Ccl802;Ccl803;Ccl804;Ccl805;Ccl806;Ccl807;Ccl808;Ccl809;Ccl810;Ccl811;Ccl812;Ccl813;Ccl814;Ccl815;Ccl816;Ccl817;Ccl818;Ccl819;Ccl820;Ccl821;Ccl822;Ccl823;Ccl824;Ccl825;Ccl826;Ccl827;Ccl828;Ccl829;Ccl830;Ccl831;Ccl832;Ccl833;Ccl834;Ccl835;Ccl836;Ccl837;Ccl838;Ccl839;Ccl840;Ccl841;Ccl842;Ccl843;Ccl844;Ccl845;Ccl846;Ccl847;Ccl848;Ccl849;Ccl850;Ccl851;Ccl852;Ccl853;Ccl854;Ccl855;Ccl856;Ccl857;Ccl858;Ccl859;Ccl860;Ccl861;Ccl862;Ccl863;Ccl864;Ccl865;Ccl866;Ccl867;Ccl868;Ccl869;Ccl870;Ccl871;Ccl872;Ccl873;Ccl874;Ccl875;Ccl876;Ccl877;Ccl878;Ccl879;Ccl880;Ccl881;Ccl882;Ccl883;Ccl884;Ccl885;Ccl886;Ccl887;Ccl888;Ccl889;Ccl890;Ccl891;Ccl892;Ccl893;Ccl894;Ccl895;Ccl896;Ccl897;Ccl898;Ccl899;Ccl900;Ccl901;Ccl902;Ccl903;Ccl904;Ccl905;Ccl906;Ccl907;Ccl908;Ccl909;Ccl910;Ccl911;Ccl912;Ccl913;Ccl914;Ccl915;Ccl916;Ccl917;Ccl918;Ccl919;Ccl920;Ccl921;Ccl922;Ccl923;Ccl924;Ccl925;Ccl926;Ccl927;Ccl928;Ccl929;Ccl930;Ccl931;Ccl932;Ccl933;Ccl934;Ccl935;Ccl936;Ccl937;Ccl938;Ccl939;Ccl940;Ccl941;Ccl942;Ccl943;Ccl944;Ccl945;Ccl946;Ccl947;Ccl948;Ccl949;Ccl950;Ccl951;Ccl952;Ccl953;Ccl954;Ccl955;Ccl956;Ccl957;Ccl958;Ccl959;Ccl960;Ccl961;Ccl962;Ccl963;Ccl964;Ccl965;Ccl966;Ccl967;Ccl968;Ccl969;Ccl970;Ccl971;Ccl972;Ccl973;Ccl974;Ccl975;Ccl976;Ccl977;Ccl978;Ccl979;Ccl980;Ccl981;Ccl982;Ccl983;Ccl984;Ccl985;Ccl986;Ccl987;Ccl988;Ccl989;Ccl990;Ccl991;Ccl992;Ccl993;Ccl994;Ccl995;Ccl996;Ccl997;Ccl998;Ccl999;Ccl1000;Ccl1001;Ccl1002;Ccl1003;Ccl1004;Ccl1005;Ccl1006;Ccl1007;Ccl1008;Ccl1009;Ccl1010;Ccl1011;Ccl1012;Ccl1013;Ccl1014;Ccl1015;Ccl1016;Ccl1017;Ccl1018;Ccl1019;Ccl1020;Ccl1021;Ccl1022;Ccl1023;Ccl1024;Ccl1025;Ccl1026;Ccl1027;Ccl1028;Ccl1029;Ccl1030;Ccl1031;Ccl1032;Ccl1033;Ccl1034;Ccl1035;Ccl1036;Ccl1037;Ccl1038;Ccl1039;Ccl1040;Ccl1041;Ccl1042;Ccl1043;Ccl1044;Ccl1045;Ccl1046;Ccl1047;Ccl1048;Ccl1049;Ccl1050;Ccl1051;Ccl1052;Ccl1053;Ccl1054;Ccl1055;Ccl1056;Ccl1057;Ccl1058;Ccl1059;Ccl1060;Ccl1061;Ccl1062;Ccl1063;Ccl1064;Ccl1065;Ccl1066;Ccl1067;Ccl1068;Ccl1069;Ccl1070;Ccl1071;Ccl1072;Ccl1073;Ccl1074;Ccl1075;Ccl1076;Ccl1077;Ccl1078;Ccl1079;Ccl1080;Ccl1081;Ccl1082;Ccl1083;Ccl1084;Ccl1085;Ccl1086;Ccl1087;Ccl1088;Ccl1089;Ccl1090;Ccl1091;Ccl1092;Ccl1093;Ccl1094;Ccl1095;Ccl1096;Ccl1097;Ccl1098;Ccl1099;Ccl1100;Ccl1101;Ccl1102;Ccl1103;Ccl1104;Ccl1105;Ccl1106;Ccl1107;Ccl1108;Ccl1109;Ccl1110;Ccl1111;Ccl1112;Ccl1113;Ccl1114;Ccl1115;Ccl1116;Ccl1117;Ccl1118;Ccl1119;Ccl1120;Ccl1121;Ccl1122;Ccl1123;Ccl1124;Ccl1125;Ccl1126;Ccl1127;Ccl1128;Ccl1129;Ccl1130;Ccl1131;Ccl1132;Ccl1133;Ccl1134;Ccl1135;Ccl1136;Ccl1137;Ccl1138;Ccl1139;Ccl1140;Ccl1141;Ccl1142;Ccl1143;Ccl1144;Ccl1145;Ccl1146;Ccl1147;Ccl1148;Ccl1149;Ccl1150;Ccl1151;Ccl1152;Ccl1153;Ccl1154;Ccl1155;Ccl1156;Ccl1157;Ccl1158;Ccl1159;Ccl1160;Ccl1161;Ccl1162;Ccl1163;Ccl1164;Ccl1165;Ccl1166;Ccl1167;Ccl1168;Ccl1169;Ccl1170;Ccl1171;Ccl1172;Ccl1173;Ccl1174;Ccl1175;Ccl1176;Ccl1177;Ccl1178;Ccl1179;Ccl1180;Ccl1181;Ccl1182;Ccl1183;Ccl1184;Ccl1185;Ccl1186;Ccl1187;Ccl1188;Ccl1189;Ccl1190;Ccl1191;Ccl1192;Ccl1193;Ccl1194;Ccl1195;Ccl1196;Ccl1197;Ccl1198;Ccl1199;Ccl1200;Ccl1201;Ccl1202;Ccl1203;Ccl1204;Ccl1205;Ccl1206;Ccl1207;Ccl1208;Ccl1209;Ccl1210;Ccl1211;Ccl1212;Ccl1213;Ccl1214;Ccl1215;Ccl1216;Ccl1217;Ccl1218;Ccl1219;Ccl1220;Ccl1221;Ccl1222;Ccl1223;Ccl1224;Ccl1225;Ccl1226;Ccl1227;Ccl1228;Ccl1229;Ccl1230;Ccl1231;Ccl1232;Ccl1233;Ccl1234;Ccl1235;Ccl1236;Ccl1237;Ccl1238;Ccl1239;Ccl1240;Ccl1241;Ccl1242;Ccl1243;Ccl1244;Ccl1245;Ccl1246;Ccl1247;Ccl1248;Ccl1249;Ccl1250;Ccl1251;Ccl1252;Ccl1253;Ccl1254;Ccl1255;Ccl1256;Ccl1257;Ccl1258;Ccl1259;Ccl1260;Ccl

biological_process%negative regulation of myeloid dendritic cell activation%GO:0030886					Cd37;Tspan32;	
biological_process%negative regulation of synaptic plasticity%GO:0031914					Rgl14;Unc13b; Unc13b;	
biological_process%negative thymic T cell selection%GO:0045060					Ccr7;Cd28;Cd3e;Dock2;Ptprc;Spn;	
biological_process%neutrophil chemotaxis%GO:0030593			Ccl8;		Ccl19;Ccl22;Ccl4;Ccl Ccl11;Ccl6;Cd9;S100a8;S100a9;Spp1;	
biological_process%non-canonical Wnt signaling pathway via MAPK cascade%GO:0038030					Wnt4; Wnt4;	
biological_process%paramesonephric duct development%GO:0061205					Wnt4; Wnt4;	
biological_process%peptidyl-tyrosine autophosphorylation%GO:0038083					Btk;GrapLck;Pltk2;Slia;	
biological_process%positive regulation of B cell differentiation%GO:0045579					Ikkf1;l2r;Inpp5d;N Mmp14;	
biological_process%positive regulation of B cell proliferation%GO:0030890					Card11;Cd40;Mef2c Mif;	
biological_process%positive regulation of CD4-positive, alpha-beta T cell differentiation%GO:0043372					Cd83;Nckap1;Sash3;	
biological_process%positive regulation of ERK1 and ERK2 cascade%GO:0070374			Ccl8;Fgfb;Phb2;		Camk2d;Ccl19;Ccl22 C3;Camk2d;Ccl11.Ccl6;Ccl9;Fbwsw7;Mif;Vegfa;	
biological_process%positive regulation of GTPase activity%GO:0033547			Ccl8;		Ccl19;Ccl22;Ccl4;Ccl Ccl11;Ccl6;Cd9;Ddam;Rapl1gap;Rasgef1b;Sh3bgr13;Thy1;Wnt4;	
biological_process%positive regulation of NF-kappaB transcription factor activity%GO:0051092			Eif2ak2;		Card11;Cd40;CD8A4; Capn3;Clu;Rbck1;Sphk1;	
biological_process%positive regulation of Rac protein signal transduction%GO:0035022					Camk2d;Dock2; Camk2d;	
biological_process%positive regulation of T cell chemotaxis%GO:0010820					Cxcl3;Cxcl13; Cxcl13;	
biological_process%positive regulation of T cell proliferation%GO:0042102					Card11;Ccl19;Ccl5;Ccr7;Cd28;Cd3e;Cd4;Coro1a;tgal;Nckap1;Prkcq;Ptprc;Sash3;Spn;Trnfrs13c;	
biological_process%positive regulation of aldosterone biosynthetic process%GO:0032349					Wnt4; Wnt4;	
biological_process%positive regulation of alpha-beta T cell proliferation%GO:0046641					Cd28;Cd3e;Ptprc;	
biological_process%positive regulation of calcium ion transport%GO:0051928					Ccl4;Ccl5; Efcab4b;Mylik;	
biological_process%positive regulation of calcium-mediated signaling%GO:0050850					Ccl4;Cd3e;Cd4;tgal;Trat1;	
biological_process%positive regulation of cell adhesion mediated by integrin%GO:0033630					Nckap1;Ptpn6;Tgfb;Tgfb2;	
biological_process%positive regulation of cell-cell adhesion mediated by integrin%GO:0033634					Ccl5;Cxcl13; Cxcl13;	
biological_process%positive regulation of dendritic cell antigen processing and presentation%GO:0002606					Ccl19;Ccr7;	
biological_process%positive regulation of dermatome development%GO:0061184					Wnt4; Wnt4;	
biological_process%positive regulation of erythrocyte differentiation%GO:0045648			lgf15;		Ets1;Inpp5d;Nckap1 lgf15;	
biological_process%positive regulation of gamma-delta T cell differentiation%GO:0045588					Lck;Nckap1;Ptprc;	
biological_process%positive regulation of germinal center formation%GO:0002636					H2-DMA;Trnfrs13c;	
biological_process%positive regulation of humoral immune response%GO:0002922					Ccr7;H2-DMA;	
biological_process%positive regulation of interferon-gamma production%GO:0032729					Cd3e;jl27ra;Pde4b;S Cd14;Jrf8;	
biological_process%positive regulation of interleukin-12 production%GO:0032735					Ccl19;Ccr7;Cd40; Irf8;	
biological_process%positive regulation of interleukin-2 biosynthetic process%GO:0045086					Card11;Cd28;Cd3e;Prkcq;	
biological_process%positive regulation of interleukin-2 production%GO:0032743					Cd83;Pde4b;Sash3;	
biological_process%positive regulation of interleukin-4 production%GO:0032753					Cd28;Cd3e;Prkcq;Sa lI33;	
biological_process%positive regulation of isotype switching to IgG isotypes%GO:0048304					Cd28;Cd40;Ptprc;	
biological_process%positive regulation of myeloid cell apoptotic process%GO:0033034					Adipoc;	
biological_process%positive regulation of myoblast fusion%GO:1901741					Ccl8;Cd53;Jlr4a; Cxcl12;	
biological_process%positive regulation of natural killer cell chemotaxis%GO:2000503			Ccl8;		Ccl4;Ccl5;	
biological_process%positive regulation of neurotrophin TRK receptor signaling pathway%GO:0051388					Cyflp2;Ngf; Ngf;	
biological_process%positive regulation of neutrophil chemotaxis%GO:0090023			Rac2;		Ccl19;Ccr7;Nckap1;Ppbp;Rac2;Sell;	
biological_process%positive regulation of phosphatidylinositol 3-kinase signaling%GO:0014068					Ccl5;Cd28;Hclsl;Hcs Pr5l;Sox9;Tgfbb2;	
biological_process%positive regulation of tumor necrosis factor biosynthetic process%GO:0042535			Thbs1;		Cd209b;Spn;Thr1; Thbs1;	
biological_process%positive regulation of tumor necrosis factor production%GO:0032760					Ccl19;Ccl4;Ccr7;Cd2 Cd14;Clu;Spon2;	
biological_process%positive regulation of tyrosine phosphorylation of STAT protein%GO:0042531					Ccl5;Hclsl;	
biological_process%positive regulation of T cell selection%GO:0045059					Dock2;H2-DMA;Ptprc;	
biological_process%regulation of B cell differentiation%GO:0045577					Card11;Ptpn6;Ptprc;Zfp361;	
biological_process%regulation of defense response to virus%GO:0050688					Cd37;Gbp4;Spn;Tspan32;	
biological_process%regulation of regulatory T cell differentiation%GO:0045589					Cd28;Ctla2a;Lck;	
biological_process%regulation of release of sequestered calcium ion into cytosol%GO:0051279					Coro1a;Ngf;Ptzb;Pi Ngf;	
biological_process%release of sequestered calcium ion into cytosol%GO:0051209					Ccl19;Lck;Plcg2;Ptprc;	
biological_process%somatotropin secreting cell differentiation%GO:0060126					Wnt4; Wnt4;	
biological_process%tertiary branching involved in mammary gland duct morphogenesis%GO:0060748					Wnt4; Wnt4;	
biological_process%thyroid-stimulating hormone-secreting cell differentiation%GO:0060129					Wnt4; Wnt4;	
biological_process%trachea gland development%GO:0061153					Edaradd;Lef1;	
biological_process%5-phosphoribose 1-diphosphate biosynthetic process%GO:0060615					Prps1;Pygb;	
biological_process%adenarier gland development%GO:0070384					Rarg;Sox9;	
biological_process%SMAD protein import into nucleus%GO:0007184					Tgfb2;	
biological_process%aorta smooth muscle tissue morphogenesis%GO:0060414					Gdf5;Tgfb2;Tgfb3;	
biological_process%biomineral tissue development%GO:0031214					Col3a1;Mylik;	
biological_process%bone mineralization%GO:0030282			Ecml;		Cst10;Srgr;	
biological_process%bone trabecula formation%GO:0060346			Ptn;		Bglap-rs1;Cst10;Ddr2;Enpp1;Fam20a;Ddam;Spp1;	
biological_process%canoncal glycolysis%GO:0061621			Col1a1;		Clec3b;Gpc3;Mtss1;Ptn;	
biological_process%cardiac left ventricle morphogenesis%GO:0003214					Col1a1;Mmp2;Vegfa;	
biological_process%cell redox homeostasis%GO:0045454					HK1;Pfkfb;	
biological_process%cellular response to interferon-alpha%GO:0035457					Cpe;Fgf9;Tgfb2;	
biological_process%cellular response to osmotic stress%GO:0071470			ifb3;		Egln2;Glc;Glxr5;Pdla4;Pdla5;Sh3bgr13;Txndc15;	
biological_process%central nervous system myelin maintenance%GO:0032286			Dck3;		Ifi11;Ifi2;Ifi3;	
biological_process%chondrocyte hypertrophy%GO:0003415					Serpina6a;Slc2a4;	
biological_process%collagen fibril organization%GO:0030199					Clu;Fah2;	
biological_process%complement activation, classical pathway%GO:0006958			Col1a1;Col1a2;		Sox9;	
biological_process%defense response to bacterium%GO:0042742					Tgfb2;	
biological_process%dipeptide transport%GO:0042938			C1qa;C1qb;		Col1a1;Col3a1;Ddr2;Dpt;Mxx;Tgfb2;	
biological_process%extracellular matrix organization%GO:0030198			lgf15;Lyz2;		C1qa;C1qc;C1s;C3;Cd55;	
biological_process%face morphogenesis%GO:0060325					Cxcl13;Spn;Thr1;	
biological_process%glutathione biosynthetic process%GO:0006750					Adams5;Ang4;Bpifa2;Cxcl13;Defa21;Defa22;Defa5;Irf8;Jrgh2;lgf15;Lyz1;Lyz2;Plac8;Spon2;Wfdc12;	
biological_process%microglial cell proliferation%GO:0061518					Slc15a1;Slc15a2;	
biological_process%negative regulation of alkaline phosphatase activity%GO:0010693					App;B4galt1;Col5a3;Cyrf61;Fn1;Ofml2b;Postn;Sox9;Tgfb2;Trnfrs11b;	
biological_process%negative regulation of cell migration%GO:0030336					Col1a1;Mmp2;Pax9;Tgfb2;Tgfb3;	
biological_process%negative regulation of cell proliferation involved in contact inhibition%GO:0060244					Glc;Ggt1;Ggt5;	
biological_process%negative regulation of epithelial cell proliferation%GO:0050680					Clu;Il33;	
biological_process%negative regulation of erythrocyte differentiation%GO:0045647					Hpn;Tgfb2;	
biological_process%negative regulation of leukocyte tethering or rolling%GO:1903237					Adipoc;Arhgap4;Slit;	
biological_process%neutrophil aggregation%GO:0070488					Abhd6;Opys13;Epha1;Kiss1;Xlf4;Ptn;Thy1;Tmeff2;Wnt4;	
biological_process%oligosaccharide metabolic process%GO:0009311			Ptn;		Pak1;Sprx;	
biological_process%positive regulation of apoptotic process%GO:0043065					Mef2c;Tgfb2;	
biological_process%positive regulation of calcium ion transmembrane transporter activity%GO:1901021					Gdf5;Gpc3;Hpn;Marveld3;Mtss1;Ptn;Sox9;Tgfb2;	
biological_process%positive regulation of cell migration%GO:0030335					Lmo2;Mafbb;Zfp361;	
biological_process%positive regulation of cholesterol biosynthetic process%GO:0045542					Ct28;Cxcl12;	
biological_process%positive regulation of focal adhesion assembly%GO:0051894					S100a8;S100a9;	
biological_process%positive regulation of protein secretion%GO:0050714					St6gal1;	
biological_process%positive regulation of skeletal muscle acetylcholine-gated channel clustering%GO:1904395					St6gal1;St6gal4;St3gal5;St3gal6;St6galn2;	
biological_process%presynaptic dense core vesicle exocytosis%GO:0099525					Gad45a;Inpp5d;Ng B4galt1;Clu;Cyrf61;Dusp1;Fohl1;Gad45a;Gad45g;Ifi2;lgfbp3;Mmp2;Ngfr;Osgin1;Pik3r2;Prmt2;Ptn;Rarg;Rbck1;Slc9a1;Spdef;Tgfb2;Tgfb3;Tsc22d1;Unc13b;	
biological_process%protein N-linked glycosylation via asparagine%GO:0018279						
biological_process%positive regulation of cell migration%GO:0030335			Col1a1;Thbs1;		Cd5;Coro1a;Ets1;Lc Ccl11;Col1a1;Cxcl2;Cyrf61;Epha1;Fgf1;Fn1;Iamc2;Mcam;Mmp14;Mmp2;Mylik;Pak1;Pld1;Sphk1;Tgfb2;Thbs1;Vegfa;	
biological_process%positive regulation of cholesterol biosynthetic process%GO:0045542					Abcg1;Fgf1;Por;	
biological_process%positive regulation of focal adhesion assembly%GO:0051894					Unc13b;	
biological_process%positive regulation of protein secretion%GO:0050714			Fgfb;		Myo18a;Prkcq;Stxbp; Atp13a2;Myo18a;Roh3a1;Stxbp51;Tgfb2;Tgfb3;Unc13b;	
biological_process%positive regulation of skeletal muscle acetylcholine-gated channel clustering%GO:1904395			Ptn;		Musk; Musk;Ptn;	
biological_process%presynaptic dense core vesicle exocytosis%GO:0099525					Unc13b;	
biological_process%protein N-linked glycosylation via asparagine%GO:0018279					Stxbp1;Unc13b;	
biological_process%positive regulation of cell migration%GO:0030335					Ddost;St6gal1;St6gal4;St3gal5;St3gal6;St6galn2;St6galn2;	

					Adamts5;Asrgl1;C1s;Capn3;Cpe;Emp1;Folh1;Ggt1;Ggt5;Hpn;Htra1;Htra3;Klk1b1;Klk1b1b;Klk1b1b;Klk1b22;Klk1b24;Klk1b27;Klk1b3;Klk1b4;Klk1b5;Klk1b7-ps;Klk1b8;Klk1b9;Mcp11;Mcp12;Mmp14;Mmp2;Pcsk6;Pgcp;Prss23;Prss32;Tpsb2;Usp18;
biological_process%%proteolysis%%GO:0006508			Usp18;	Cfb;Ctsw;Klk1b1;Klk1b2;Tpsb2;Usp18;	
biological_process%%regulation of activation of membrane attack complex%%GO:0001969			lgfbp6;	Cyr61;Htra1;Htra3;lgfbp2;lgfbp3;lgfbp4;lgfbp6;	
biological_process%%regulation of cell growth%%GO:0001558				Mgll;	Abhd5;Mgll;
biological_process%%regulation of endocannabinoid signaling pathway%%GO:2000124					S100a9;
biological_process%%regulation of integrin biosynthetic process%%GO:0045113			Alas2;Pygm;	Camk2d;Prkcb;Tgfb2;	Camk2d;Egln2;Hmox2;Hsp90b1;Hyou1;Mmp2;Pak1;Prml2;Tgfb2;Tgfb3;Ucp2;Vegfa;
biological_process%%response to hypoxia%%GO:0001666			Ptn;		Ptn;Sox9;
biological_process%%retinal rod cell differentiation%%GO:0060221					Mmp14;Mmp2;
biological_process%%tissue remodeling%%GO:0048771				Klk1b22;Klk1b26;	Ggt1;Klk1b22;Klk1b9;Mmp14;
biological_process%%cytogen activation%%GO:0031638					
Panel B: Cellular component					
cellular_component%%cell surface%%GO:0009986				Apoe;Bst2;Cd34;Fgb	Adipoq;Ccr7;Cd28;C
					Amot;Antxr2;App;B4galt1;Cd14;Cd34;Cd55;Cflr;Clu;Enpp1;Folr1;Hpn;Hspa2;Il117rc;Ly6d;Mif;Muc1;Ngfr;Ocn;Pcsk6;Pdia4;Procr;Ptn;Rtp4;Scara5;Scnn1b;Slc2a4;Slc9a1;Slco3a1;Tgfb2;Tgfb3;Thbd;Thbs1;Thy1;Vegfa;Wnt4;
					2810405;K02Rik;S730469M10Rik;Abhd6;Acpp;Acsm1;Acta1;Acta2;Actg2;Acty3;Alf1;Alpl;Amy1;App;Arpc1b;Atp6v1e1;Atrm;Asgp1;B4galt1;Bpifd2;C1qg;C1qg;C1s;C3;Cadm1;Ccl28;Cd14;Cd248;Cd55;Cfr;Clp;Ckb;Clec3b;Clu;Col5a3;Col6a1;Col6a2;Cox5a;Cpe;Cst10;Cst6;Cxc12;Ddr2;Dpt;efhd1;Fam129a;Fam20a;Fbl;Fgf9;Fn1;Folr1;Galc;Galnt2;Gbp5;Ggt1;Gpa33;Gpx3;Gpn2;Gpx3;Gito1;Guca2a;Hexb;Hpn;Hsp90b1;Hspa1a;Hspa2;Htra1;Hyou1;lgfals;lgfbp2;lgfbp3;lgfbp6;itg
cellular_component%%extracellular exosome%%GO:0070062				Acta1;Apoe;Atp6v1	Adipoq;Amy1;Arhgd6;Itin1;Klk1b11;Klk1b12;Klk1b13;Klk1b14;Klk1b15;Klk1b16;Klk1b17;Klk1b18;Klk1b19;Klk1b20;Klk1b21;Klk1b22;Klk1b23;Klk1b24;Klk1b25;Klk1b26;Klk1b27;Klk1b28;Klk1b29;Klk1b30;Klk1b31;Klk1b32;Klk1b33;Klk1b34;Klk1b35;Klk1b36;Klk1b37;Klk1b38;Klk1b39;Klk1b40;Klk1b41;Klk1b42;Klk1b43;Klk1b44;Klk1b45;Klk1b46;Klk1b47;Klk1b48;Klk1b49;Klk1b50;Klk1b51;Klk1b52;Klk1b53;Klk1b54;Klk1b55;Klk1b56;Klk1b57;Klk1b58;Klk1b59;Klk1b60;Klk1b61;Klk1b62;Klk1b63;Klk1b64;Klk1b65;Klk1b66;Klk1b67;Klk1b68;Klk1b69;Klk1b70;Klk1b71;Klk1b72;Klk1b73;Klk1b74;Klk1b75;Klk1b76;Klk1b77;Klk1b78;Klk1b79;Klk1b80;Klk1b81;Klk1b82;Klk1b83;Klk1b84;Klk1b85;Klk1b86;Klk1b87;Klk1b88;Klk1b89;Klk1b90;Klk1b91;Klk1b92;Klk1b93;Klk1b94;Klk1b95;Klk1b96;Klk1b97;Klk1b98;Klk1b99;Klk1b100;Klk1b101;Klk1b102;Klk1b103;Klk1b104;Klk1b105;Klk1b106;Klk1b107;Klk1b108;Klk1b109;Klk1b110;Klk1b111;Klk1b112;Klk1b113;Klk1b114;Klk1b115;Klk1b116;Klk1b117;Klk1b118;Klk1b119;Klk1b120;Klk1b121;Klk1b122;Klk1b123;Klk1b124;Klk1b125;Klk1b126;Klk1b127;Klk1b128;Klk1b129;Klk1b130;Klk1b131;Klk1b132;Klk1b133;Klk1b134;Klk1b135;Klk1b136;Klk1b137;Klk1b138;Klk1b139;Klk1b140;Klk1b141;Klk1b142;Klk1b143;Klk1b144;Klk1b145;Klk1b146;Klk1b147;Klk1b148;Klk1b149;Klk1b150;Klk1b151;Klk1b152;Klk1b153;Klk1b154;Klk1b155;Klk1b156;Klk1b157;Klk1b158;Klk1b159;Klk1b160;Klk1b161;Klk1b162;Klk1b163;Klk1b164;Klk1b165;Klk1b166;Klk1b167;Klk1b168;Klk1b169;Klk1b170;Klk1b171;Klk1b172;Klk1b173;Klk1b174;Klk1b175;Klk1b176;Klk1b177;Klk1b178;Klk1b179;Klk1b180;Klk1b181;Klk1b182;Klk1b183;Klk1b184;Klk1b185;Klk1b186;Klk1b187;Klk1b188;Klk1b189;Klk1b190;Klk1b191;Klk1b192;Klk1b193;Klk1b194;Klk1b195;Klk1b196;Klk1b197;Klk1b198;Klk1b199;Klk1b200;Klk1b201;Klk1b202;Klk1b203;Klk1b204;Klk1b205;Klk1b206;Klk1b207;Klk1b208;Klk1b209;Klk1b210;Klk1b211;Klk1b212;Klk1b213;Klk1b214;Klk1b215;Klk1b216;Klk1b217;Klk1b218;Klk1b219;Klk1b220;Klk1b221;Klk1b222;Klk1b223;Klk1b224;Klk1b225;Klk1b226;Klk1b227;Klk1b228;Klk1b229;Klk1b230;Klk1b231;Klk1b232;Klk1b233;Klk1b234;Klk1b235;Klk1b236;Klk1b237;Klk1b238;Klk1b239;Klk1b240;Klk1b241;Klk1b242;Klk1b243;Klk1b244;Klk1b245;Klk1b246;Klk1b247;Klk1b248;Klk1b249;Klk1b250;Klk1b251;Klk1b252;Klk1b253;Klk1b254;Klk1b255;Klk1b256;Klk1b257;Klk1b258;Klk1b259;Klk1b260;Klk1b261;Klk1b262;Klk1b263;Klk1b264;Klk1b265;Klk1b266;Klk1b267;Klk1b268;Klk1b269;Klk1b270;Klk1b271;Klk1b272;Klk1b273;Klk1b274;Klk1b275;Klk1b276;Klk1b277;Klk1b278;Klk1b279;Klk1b280;Klk1b281;Klk1b282;Klk1b283;Klk1b284;Klk1b285;Klk1b286;Klk1b287;Klk1b288;Klk1b289;Klk1b290;Klk1b291;Klk1b292;Klk1b293;Klk1b294;Klk1b295;Klk1b296;Klk1b297;Klk1b298;Klk1b299;Klk1b300;Klk1b301;Klk1b302;Klk1b303;Klk1b304;Klk1b305;Klk1b306;Klk1b307;Klk1b308;Klk1b309;Klk1b310;Klk1b311;Klk1b312;Klk1b313;Klk1b314;Klk1b315;Klk1b316;Klk1b317;Klk1b318;Klk1b319;Klk1b320;Klk1b321;Klk1b322;Klk1b323;Klk1b324;Klk1b325;Klk1b326;Klk1b327;Klk1b328;Klk1b329;Klk1b330;Klk1b331;Klk1b332;Klk1b333;Klk1b334;Klk1b335;Klk1b336;Klk1b337;Klk1b338;Klk1b339;Klk1b340;Klk1b341;Klk1b342;Klk1b343;Klk1b344;Klk1b345;Klk1b346;Klk1b347;Klk1b348;Klk1b349;Klk1b350;Klk1b351;Klk1b352;Klk1b353;Klk1b354;Klk1b355;Klk1b356;Klk1b357;Klk1b358;Klk1b359;Klk1b360;Klk1b361;Klk1b362;Klk1b363;Klk1b364;Klk1b365;Klk1b366;Klk1b367;Klk1b368;Klk1b369;Klk1b370;Klk1b371;Klk1b372;Klk1b373;Klk1b374;Klk1b375;Klk1b376;Klk1b377;Klk1b378;Klk1b379;Klk1b380;Klk1b381;Klk1b382;Klk1b383;Klk1b384;Klk1b385;Klk1b386;Klk1b387;Klk1b388;Klk1b389;Klk1b390;Klk1b391;Klk1b392;Klk1b393;Klk1b394;Klk1b395;Klk1b396;Klk1b397;Klk1b398;Klk1b399;Klk1b400;Klk1b401;Klk1b402;Klk1b403;Klk1b404;Klk1b405;Klk1b406;Klk1b407;Klk1b408;Klk1b409;Klk1b410;Klk1b411;Klk1b412;Klk1b413;Klk1b414;Klk1b415;Klk1b416;Klk1b417;Klk1b418;Klk1b419;Klk1b420;Klk1b421;Klk1b422;Klk1b423;Klk1b424;Klk1b425;Klk1b426;Klk1b427;Klk1b428;Klk1b429;Klk1b430;Klk1b431;Klk1b432;Klk1b433;Klk1b434;Klk1b435;Klk1b436;Klk1b437;Klk1b438;Klk1b439;Klk1b440;Klk1b441;Klk1b442;Klk1b443;Klk1b444;Klk1b445;Klk1b446;Klk1b447;Klk1b448;Klk1b449;Klk1b450;Klk1b451;Klk1b452;Klk1b453;Klk1b454;Klk1b455;Klk1b456;Klk1b457;Klk1b458;Klk1b459;Klk1b460;Klk1b461;Klk1b462;Klk1b463;Klk1b464;Klk1b465;Klk1b466;Klk1b467;Klk1b468;Klk1b469;Klk1b470;Klk1b471;Klk1b472;Klk1b473;Klk1b474;Klk1b475;Klk1b476;Klk1b477;Klk1b478;Klk1b479;Klk1b480;Klk1b481;Klk1b482;Klk1b483;Klk1b484;Klk1b485;Klk1b486;Klk1b487;Klk1b488;Klk1b489;Klk1b490;Klk1b491;Klk1b492;Klk1b493;Klk1b494;Klk1b495;Klk1b496;Klk1b497;Klk1b498;Klk1b499;Klk1b500;Klk1b501;Klk1b502;Klk1b503;Klk1b504;Klk1b505;Klk1b506;Klk1b507;Klk1b508;Klk1b509;Klk1b510;Klk1b511;Klk1b512;Klk1b513;Klk1b514;Klk1b515;Klk1b516;Klk1b517;Klk1b518;Klk1b519;Klk1b520;Klk1b521;Klk1b522;Klk1b523;Klk1b524;Klk1b525;Klk1b526;Klk1b527;Klk1b528;Klk1b529;Klk1b530;Klk1b531;Klk1b532;Klk1b533;Klk1b534;Klk1b535;Klk1b536;Klk1b537;Klk1b538;Klk1b539;Klk1b540;Klk1b541;Klk1b542;Klk1b543;Klk1b544;Klk1b545;Klk1b546;Klk1b547;Klk1b548;Klk1b549;Klk1b550;Klk1b551;Klk1b552;Klk1b553;Klk1b554;Klk1b555;Klk1b556;Klk1b557;Klk1b558;Klk1b559;Klk1b560;Klk1b561;Klk1b562;Klk1b563;Klk1b564;Klk1b565;Klk1b566;Klk1b567;Klk1b568;Klk1b569;Klk1b570;Klk1b571;Klk1b572;Klk1b573;Klk1b574;Klk1b575;Klk1b576;Klk1b577;Klk1b578;Klk1b579;Klk1b580;Klk1b581;Klk1b582;Klk1b583;Klk1b584;Klk1b585;Klk1b586;Klk1b587;Klk1b588;Klk1b589;Klk1b590;Klk1b591;Klk1b592;Klk1b593;Klk1b594;Klk1b595;Klk1b596;Klk1b597;Klk1b598;Klk1b599;Klk1b600;Klk1b601;Klk1b602;Klk1b603;Klk1b604;Klk1b605;Klk1b606;Klk1b607;Klk1b608;Klk1b609;Klk1b610;Klk1b611;Klk1b612;Klk1b613;Klk1b614;Klk1b615;Klk1b616;Klk1b617;Klk1b618;Klk1b619;Klk1b620;Klk1b621;Klk1b622;Klk1b623;Klk1b624;Klk1b625;Klk1b626;Klk1b627;Klk1b628;Klk1b629;Klk1b630;Klk1b631;Klk1b632;Klk1b633;Klk1b634;Klk1b635;Klk1b636;Klk1b637;Klk1b638;Klk1b639;Klk1b640;Klk1b641;Klk1b642;Klk1b643;Klk1b644;Klk1b645;Klk1b646;Klk1b647;Klk1b648;Klk1b649;Klk1b650;Klk1b651;Klk1b652;Klk1b653;Klk1b654;Klk1b655;Klk1b656;Klk1b657;Klk1b658;Klk1b659;Klk1b660;Klk1b661;Klk1b662;Klk1b663;Klk1b664;Klk1b665;Klk1b666;Klk1b667;Klk1b668;Klk1b669;Klk1b670;Klk1b671;Klk1b672;Klk1b673;Klk1b674;Klk1b675;Klk1b676;Klk1b677;Klk1b678;Klk1b679;Klk1b680;Klk1b681;Klk1b682;Klk1b683;Klk1b684;Klk1b685;Klk1b686;Klk1b687;Klk1b688;Klk1b689;Klk1b690;Klk1b691;Klk1b692;Klk1b693;Klk1b694;Klk1b695;Klk1b696;Klk1b697;Klk1b698;Klk1b699;Klk1b700;Klk1b701;Klk1b702;Klk1b703;Klk1b704;Klk1b705;Klk1b706;Klk1b707;Klk1b708;Klk1b709;Klk1b710;Klk1b711;Klk1b712;Klk1b713;Klk1b714;Klk1b715;Klk1b716;Klk1b717;Klk1b718;Klk1b719;Klk1b720;Klk1b721;Klk1b722;Klk1b723;Klk1b724;Klk1b725;Klk1b726;Klk1b727;Klk1b728;Klk1b729;Klk1b730;Klk1b731;Klk1b732;Klk1b733;Klk1b734;Klk1b735;Klk1b736;Klk1b737;Klk1b738;Klk1b739;Klk1b740;Klk1b741;Klk1b742;Klk1b743;Klk1b744;Klk1b745;Klk1b746;Klk1b747;Klk1b748;Klk1b749;Klk1b750;Klk1b751;Klk1b752;Klk1b753;Klk1b754;Klk1b755;Klk1b756;Klk1b757;Klk1b758;Klk1b759;Klk1b760;Klk1b761;Klk1b762;Klk1b763;Klk1b764;Klk1b765;Klk1b766;Klk1b767;Klk1b768;Klk1b769;Klk1b770;Klk1b771;Klk1b772;Klk1b773;Klk1b774;Klk1b775;Klk1b776;Klk1b777;Klk1b778;Klk1b779;Klk1b780;Klk1b781;Klk1b782;Klk1b783;Klk1b784;Klk1b785;Klk1b786;Klk1b787;Klk1b788;Klk1b789;Klk1b790;Klk1b791;Klk1b792;Klk1b793;Klk1b794;Klk1b795;Klk1b796;Klk1b797;Klk1b798;Klk1b799;Klk1b800;Klk1b801;Klk1b802;Klk1b803;Klk1b804;Klk1b805;Klk1b806;Klk1b807;Klk1b808;Klk1b809;Klk1b810;Klk1b811;Klk1b812;Klk1b813;Klk1b814;Klk1b815;Klk1b816;Klk1b817;Klk1b818;Klk1b819;Klk1b820;Klk1b821;Klk1b822;Klk1b823;Klk1b824;Klk1b825;Klk1b826;Klk1b827;Klk1b828;Klk1b829;Klk1b830;Klk1b831;Klk1b832;Klk1b833;Klk1b834;Klk1b835;Klk1b836;Klk1b837;Klk1b838;Klk1b839;Klk1b840;Klk1b841;Klk1b842;Klk1b843;Klk1b844;Klk1b845;Klk1b846;Klk1b847;Klk1b848;Klk1b849;Klk1b850;Klk1b851;Klk1b852;Klk1b853;Klk1b854;Klk1b855;Klk1b856;Klk1b857;Klk1b858;Klk1b859;Klk1b860;Klk1b861;Klk1b862;Klk1b863;Klk1b864;Klk1b865;Klk1b866;Klk1b867;Klk1b868;Klk1b869;Klk1b870;Klk1b871;Klk1b872;Klk1b873;Klk1b874;Klk1b875;Klk1b876;Klk1b877;Klk1b878;Klk1b879;Klk1b880;Klk1b881;Klk1b882;Klk1b883;Klk1b884;Klk1b885;Klk1b886;Klk1b887;Klk1b888;Klk1b889;Klk1b890;Klk1b891;Klk1b892;Klk1b893;Klk1b894;Klk1b895;Klk1b896;Klk1b897;Klk1b898;Klk1b899;Klk1b900;Klk1b901;Klk1b902;Klk1b903;Klk1b904;Klk1b905;Klk1b906;Klk1b907;Klk1b908;Klk1b909;Klk1b910;Klk1b911;Klk1b912;Klk1b913;Klk1b914;Klk1b915;Klk1b916;Klk1b917;Klk1b918;Klk1b919;Klk1b920;Klk1b921;Klk1b922;Klk1b923;Klk1b924;Klk1b925;Klk1b926;Klk1b927;Klk1b928;Klk1b929;Klk1b930;Klk1b931;Klk1b932;Klk1b933;Klk1b934;Klk1b935;Klk1b936;Klk1b937;Klk1b938;Klk1b939;Klk1b940;Klk1b941;Klk1b942;Klk1b943;Klk1b944;Klk1b945;Klk1b946;Klk1b947;Klk1b948;Klk1b949;Klk1b950;Klk1b951;Klk1b952;Klk1b953;Klk1b954;Klk1b955;Klk1b956;Klk1b957;Klk1b958;Klk1b959;Klk1b960;Klk1b961;Klk1b962;Klk1b963;Klk1b964;Klk1b965;Klk1b966;Klk1b967;Klk1b968;Klk1b969;Klk1b970;Klk1b971;Klk1b972;Klk1b973;Klk1b974;Klk1b975;Klk1b976;Klk1b977;Klk1b978;Klk1b979;Klk1b980;Klk1b981;Klk1b982;Klk1b983;Klk1b984;Klk1b985;Klk1b986;Klk1b987;Klk1b988;Klk1b989;Klk1b990;Klk1b991;Klk1b992;Klk1b993;Klk1b994;Klk1b995;Klk1b996;Klk1b997;Klk1b998;Klk1b999;Klk1b1000;Klk1b1001;Klk1b1002;Klk1b1003;Klk1b1004;Klk1b1005;Klk1b1006;Klk1b1007;Klk1b1008;Klk1b1009;Klk1b1010;Klk1b1011;Klk1b1012;Klk1b1013;Klk1b1014;Klk1b1015;Klk1b1016;Klk1b1017;Klk1b1018;Klk1b1019;Klk1b1020;Klk1b1021;Klk1b1022;Klk1b1023;Klk1b1024;Klk1b1025;Klk1b1026;Klk1b1027;Klk1b1028;Klk1b1029;Klk1b1030;Klk1b1031;Klk1b1032;Klk1b1033;Klk1b1034;Klk1b1035;Klk1b1036;Klk1b1037;Klk1b1038;Klk1b1039;Klk1b1040;Klk1b1041;Klk1b1042;Klk1b1043;Klk1b1044;Klk1b1045;Klk1b1046;Klk1b1047;Klk1b1048;Klk1b1049;Klk1b1050;Klk1b1051;Klk1b1052;Klk1b1053;Klk1b1054;Klk1b1055;Klk1b1056;Klk1b1057;Klk1b1058;Klk1b1059;Klk1b1060;Klk1b1061;Klk1b1062;Klk1b1063;Klk1b1064;Klk1b1065;Klk1b1066;Klk1b1067;Klk1b1068;Klk1b1069;Klk1b1070;Klk1b1071;Klk1b1072;Klk1b1073;Klk1b1074;Klk1b1075;Klk1b1076;Klk1b1077;Klk1b1078;Klk1b1079;Klk1b1080;Klk1b1081;Klk1b1082;Klk1b1083;Klk1b1084;Klk1b1085;Klk1b1086;Klk1b1087;Klk1b1088;Klk1b1089;Klk1b1090;Klk1b1091;Klk1b1092;Klk1b1093;Klk1b1094;Klk1b1095;Klk1b1096;Klk1b1097;Klk1b1098;Klk1b1099;Klk1b1100;Klk1b1101;Klk1b1102;Klk1b1103;Klk1b1104;Klk1b1105;Klk1b1106;Klk1b1107;Klk1b1108;Klk1b1109;Klk1b1110;Klk1b1111;Klk1b1112;Klk1b1113;Klk1b1114;Klk1b1115;Klk1b1116;Klk1b1117;Klk1b1118;Klk1b1119;Klk1b1120;Klk1b1121;Klk1b1122;Klk1b1123;Klk1b1124;Klk1b1125;Klk1b1126;Klk1b1127;Klk1b1128;Klk1b1129;Klk1b1130;Klk1b1131;Klk1b1132;Klk1b1133;Klk1b1134;Klk1b1135;Klk1b1136;Klk1b1137;Klk1b1138;Klk1b1139;Klk1b1140;Klk1b1141;Klk1b1142;Klk1b1143;Klk1b1144;Klk1b1145;Klk1b1146;Klk1b1147;Klk1b1148;Klk1b1149;Klk1b1150;Klk1b1151;Klk1b1152;Klk1b1153;Klk1b1154;Klk1b1155;Klk1b1156;Klk1b1157;Klk1b1158;Klk1b1159;Klk1b1160;Klk1b1161;Klk1b1162;Klk1b1163;Klk1b1164;Klk1b1165;Klk1b1166;Klk1b1167;Klk1b1168;Klk1b1169;Klk1b1170;Klk1b1171;Klk1b1172;Klk1b1173;Klk1b1174;Klk1b1175;Klk1b1176;Klk1b1177;Klk1b1178;Klk1b1179;Klk1b1180;Klk1b1181;Klk1b1182;Klk1b1183;Klk1b1184;Klk1b1185;Klk1b1186;Klk1b1187;Klk1b1188;Klk1b1189;Klk1b1190;Klk1b1191;Klk1b1192;Klk1b1193;Klk1b1194;Klk1b1195;Klk1b1196;Klk1b1197;Klk1b1198;Klk1b1199;Klk1b1200;Klk1b1201;Klk1b1202;Klk1b1203;Klk1b1204;Klk1b1205;Klk1b1206;Klk1b1207;Klk1b1208;Klk1b1209;Klk1b1210;Klk1b1211;Klk1b1212;Klk1b1213;Klk1b1214;Klk1b1215;Klk1b1216;Klk1b1217;Klk1b1218;Klk1b1219;Klk1b1220;Klk1b1221;Klk1b1222;Klk1b1223;Klk1b1224;Klk1b1225;Klk1b1226;Klk1b1227;Klk1b1228;Klk1b1229;Klk1b1230;Klk1b1231;Klk1b1232;Klk1b1233;Klk1b1234;Klk1b1235;Klk1b1236;Klk1b1237;Klk1b1238;Klk1b1239;Klk1b1240;Klk1b1241;Klk1b1242;Klk1b1243;Klk1b1244;Klk1b1245;Klk1b1246;Klk1b1247;Klk1b1248;Klk1b1249;Klk1b1250;Klk1b1251;Klk1b1252;Klk1b1253;Klk1b1254;Klk1b1255;Klk1b1256;Klk1b1257;Klk1b1258;Klk1b1259;Klk1b1260;Klk1b1261;Klk1b1262;Klk1b1263;Klk1b1264;Klk1b1265;Klk1b1266;Klk1b1267;Klk1b1268;Klk1b1269;Klk1b1270;Klk1b1271;Klk1b1272;Klk1b1273;Klk1b1274;Klk1b1275;Klk1b1276;Klk1b1277;Klk1b1278;Klk1b1279;Klk1b1280;Klk1b1281;Klk1b1282;Klk1b1283;Klk1b1284;Klk1b1285;Klk1b1286;Klk1b1287;Klk1b1288;Klk1b1289;Klk1b1290;Klk1b1291;Klk1b1292;Klk1b1293;Klk1b1294;Klk1b1295;Klk1b1296;Klk1b1297;Klk1b1298;Klk1b1299;Klk1b1300;Klk1b1301;Klk1b1302;Klk1b1303;Klk1b1304;Klk1b1305;Klk1b1306;Klk1b1307;Klk1b1308;Klk1b1309;Klk1b1310;Klk1b1311;Klk1b1312;Klk1b1313;Klk1b1314;Klk1b1315;Klk1b1316;Klk1b1317;Klk1b1318;Klk1b1319;Klk1b1320;Klk1b1321;Klk1b1322;Klk1b1323;Klk1b1324;Klk1b1325;Klk1b1326;Klk1b1327;Klk1b1328;Klk1b1329;Klk1

[illegible]

molecular_function%%phosphodiesterase I activity%%GO:0004528					
molecular_function%%receptor agonist activity%%GO:0048018				Cxcl13;	Enpp1;Enpp2; Ccl11;Cxcl13;Mapt;Vegfa;
molecular_function%%retinoic acid receptor activity%%GO:0003708					Esrrg;Rarg;
molecular_function%%type III transforming growth factor beta receptor binding%%GO:0034714				Tgfb2;	Tgfb2;Tgfb3;