Table S5 Edge-node statistics of networks constructed with up-

HESCs-ESERs comparisor					
Symbol	**k_{in}**	**k_{out}**	**k_{nd}**	**total**	**score**
NFkB (complex)	30	24	0	54	720
MYC	23	25	1	49	599.25
TGFB1	11	44	0		484
RELA	21	17	2	40	396
IL12 (complex)	15	25	0	40	375
IL13	8	43	1	52	369.75
P38 MAPK	19	14	2	35	300
VEGFA	12	21	0	33	252
Interferon alpha	11	22	0	33	242
PI3K (complex)	10	20	1	31	215.25
Akt	16	9	4		198
ERK1/2	22	9	0	31	198
Jnk	16	12	0	28	192
IgG	7	21	2	30	176
CDKN1A	25	7	0	32	175
MAPK14	11	13	2	26	168
CEBPB	12	8	4	24	140
IL1RN	11	10	0	21	110
NFKBIA	14	5	3	22	100.75
PRKCB	9	10	1	20	99.75
Caspase	8	12	0	20	96
Vegf	9	10	0	19	90
RUNX1	6	10	3	19	86.25
IFN Beta	6	13	0	19	78
SREBF1	6	11	1	18	74.75
LDL	2	36	0	38	72
SPI1	4	13	2	19	70
DUSP1	12	5	0	17	60
JUNB	9	4	3	16	57.75
FOXO3	7	7	1	15	56.25
STAT6	7	5	3	15	55.25
SATB1	2	22	0	24	44
MAX	5	4	4	13	42
CDKN1B	19	2	0	21	38
PIM1	6	6	0	12	36
CD14	7	4	1	12	33.75
CEBPD	7	4	1	12	33.75
JUND	2	16	0	18	32
OSM	2	16	0	18	32
Pkc(s)	2	16	0	18	32
TLR9	4	5	2	11	30
LGALS3	2	6	3	11	26.25
Hsp27	4	5	1	10	24.75
SNCA	2	7	2	11	24
CSF1R	7	3	0	10	21

TGM2	5	1	4	10	21
EPAS1	2	7	1	10	18.75
PLD1	6	3	0	9	18
DDIT3	10	1	1	12	15.75
IL16	3	5	0	8	15
ELK1	9	1	1	11	14.25
PF4	2	7	0	9	14
NTRK1	2	5	1	8	13.75
ZFP36	6	2	0	8	12
TCR	0	10	2	12	11
CFLAR	5	2	0	7	10
Gm-csf	1	9	0	10	9
FOSB	2	1	3	6	8.75
TF	3	2	1	6	8.75
B2M	5	1	1	7	8.25
IL2RG	1	5	1	7	8.25
NCF1C	4	0	3	7	8.25
F Actin	2	4	0	6	8
ITGA4	3	1	2	6	8
Growth hormone	1	7	0	8	7
ABCA1	4	1	1	6	6.75
BTK	1	4	1	6	6.75
GSN	2	2	1	5	6.25
CISH	3	2	0	5	6
ID2	6	1	0	7	6
IL18R1	2	3	0	5	6
CCND3	10	0	1	11	5.25
RPLP0 (includes	2	0	3	5	5.25
CD36	4	0	2	6	5
CDKN2B	5	1	0	6	5
FLT3LG	1	5	0	6	5
IL18RAP		4	2	6	5
SELP	9	0	1	10	4.75
DLL4	4	1	0	5	4
FOXO4	2	2	0	4	4
KRT10	2	2	0	4	4
C5AR1	0	7	1	8	3.75
HK1	2	1	1	4	3.75
MXI1	1	2	1	4	3.75
NCF2	7	0	1	8	3.75
CYBB	6	0	1	7	3.25
IRF9	6	0	1	7	3.25
FPR1	1	3	0	4	3
ITGA2B (includes	2	0	2	4	3
TFRC	2	0	2	4	3
TRIM21	1	1	1	3	2.25
DUSP10	1	2	0	3	2
CD46	2	0	1	3	1.25

GPR56	2	0	1	3	1.25
LMNA	2	0	1	3	1.25
MTSS1	2	0	1	3	1.25
TNS1	2	0	1	3	1.25
ADA	1	1	0	2	1
ASAH1	1	1	0	2	1
PIK3IP1	1	1	0	2	1
PKN2	1	1	0	2	1
TMC6	1	1	0	2	1
C4B	1	0	1	2	0.75
ITGB7	1	0	1	2	0.75
SELPLG	1	0	1	2	0.75
TUBA4A	1	0	1	2	0.75
PPP1R12B	0	0	1	1	0.25
STX12	0	0	1	1	0.25
26s Proteasome	0	10	0	10	0
ABTB1	1	0	0	1	0
ADAM15	3	0	0	3	0
ALDH1A2	2	0	0	2	0
AVPI1	1	0	0	1	0
C17ORF59	1	0	0	1	0
CCR7	9	0	0	9	0
CD226	1	0	0	1	0
CD244	1	0	0	1	0
CD68	3	0	0	3	0
CD69	6	0	0	6	0
CHST2	1	0	0	1	0
CLEC4A	1	0	0	1	0
CTSB	6	0	0	6	0
CTSD	3	0	0	3	0
CXCL11	8	0	0	8	0
CXCL3	8	0	0	8	0
DYNLT3	2	0	0	2	0
ELF1	0	2	0	2	0
EPSTI1	1	0	0	1	0
EVI2A	1	0	0	1	0
FAM110A	1	0	0	1	0
FAM129A	2	0	0	2	0
FAM38A	1	0	0	1	0
G0S2	3	0	0	3	0
G6PD	6	0	0	6	0
GHRL	0	2	0	2	0
GUK1	1	0	0	1	0
HAVCR1	0	3	0	3	0
HDGF	3	0	0	3	0
IRAK4	0	6	0	6	0
KLRK1	2	0	0	2	0
KRT13	1	0	0	1	0

LPIN2	1	0	0	1	0
MCL1	18	0	0	18	0
NFE2	2	0	0	2	0
NHLH1	1	0	0	1	0
PLIN2	2	0	0	2	0
PPP1R15A	4	0	0	4	0
RAB33A	1	0	0	1	0
RNASE1	0	2	0	2	0
RPLP1	2	0	0	2	0
SLC16A6	2	0	0	2	0
SLC27A2	1	0	0	1	0
SYNGR2	1	0	0	1	0
TAPBP	5	0	0	5	0
TSPAN17	1	0	0	1	0
UBE2L6	3	0	0	3	0
YPEL5	1	0	0	1	0