

Supplementary Table 2: Driver genes ranked according to the number of regulated modules across all cancers

	BLCA	BRCA	COADREAD	GBM	HNSC	KIRC	LAML	LUAD	LUSC	OV	UCEC	Total number of regulated modules
FSTL1	4	6	0	0	0	1	0	5	3	8	4	31
IFFO1	8	2	10	0	0	0	0	2	4	0	3	29
MLPH	0	14	6	0	1	0	0	0	4	0	3	28
SPARCL1	8	0	0	0	4	2	0	10	2	0	0	26
CLIP3	12	0	0	0	0	0	0	3	0	2	7	24
MFAP4	0	10	0	0	0	0	0	0	8	2	4	24
BEND5	5	0	0	0	9	0	0	5	3	0	0	22
NUAK1	0	0	6	0	1	0	0	4	1	5	4	21
CAPS	4	0	1	2	2	2	0	3	2	2	3	21
PPP1R16B	8	4	0	0	0	0	0	3	4	0	2	21
OLFML1	0	6	0	1	0	4	0	0	0	4	6	21
SLA	0	0	7	11	0	0	0	0	0	0	2	20
DDR2	0	3	0	0	4	3	0	2	2	2	4	20
CDO1	1	1	7	0	2	0	0	6	0	2	0	19
C1S	8	2	0	4	1	4	0	0	0	0	0	19
EFEMP2	0	4	0	3	0	0	3	4	3	0	2	19
EMILIN1	0	0	0	1	0	0	0	6	5	2	5	19
OSMR	8	0	9	0	0	0	0	0	0	0	0	17
SULT1C4	6	0	0	0	0	1	1	0	5	4	0	17
RARRES3	2	1	0	3	1	0	0	1	0	7	2	17
CCL5	0	3	0	0	2	1	0	3	3	3	2	17
TBC1D10C	0	0	0	1	11	1	2	0	0	2	0	17
SMO	0	1	6	0	0	0	0	1	1	6	1	16
TRIM22	0	1	4	2	2	0	0	2	1	3	1	16
GPX2	3	2	1	0	4	0	0	1	4	0	1	16
IGF1	13	0	0	0	0	0	0	2	0	0	1	16
RIN1	2	0	0	4	0	2	2	0	4	0	2	16
BCL2	0	5	0	0	9	0	0	0	2	0	0	16
ACTA2	0	2	0	0	0	0	0	0	3	7	4	16
ATP10A	0	1	9	0	0	0	2	3	0	0	0	15
TGFB3	0	0	9	0	0	4	0	0	0	2	0	15
DOCK2	0	1	8	0	0	0	0	0	6	0	0	15
METTL7A	0	0	7	0	3	0	0	5	0	0	0	15
LTBP3	0	0	5	0	3	0	6	0	0	0	1	15
CHST10	2	0	4	0	3	2	0	1	3	0	0	15
DAPP1	0	0	3	3	0	2	2	2	1	1	1	15
HSPB6	0	6	2	0	0	0	0	0	6	0	1	15
OLFM1	10	1	2	0	0	0	0	2	0	0	0	15
SRPX2	0	0	1	7	0	5	0	2	0	0	0	15
WIPF1	10	1	0	0	0	0	0	0	0	0	4	15
VIM	6	3	0	0	5	0	1	0	0	0	0	15
IL2RB	6	0	0	0	0	0	5	4	0	0	0	15
RECK	6	0	0	0	5	0	0	0	4	0	0	15
MYEF2	5	0	0	0	1	0	2	0	7	0	0	15
SELENBP1	0	0	0	0	0	0	2	7	4	0	2	15
LDOC1	0	0	12	0	0	0	2	0	0	0	0	14
GYPC	0	1	10	0	0	0	0	0	0	0	3	14
GBP4	0	0	0	0	6	0	3	2	2	1	0	14
SPATA18	0	0	0	0	0	0	0	6	0	4	4	14
CHST3	2	7	4	0	0	0	0	0	0	0	0	13
CD248	6	0	4	0	0	0	3	0	0	0	0	13
KIAA1324	0	0	3	0	0	0	0	0	2	3	5	13
PREX1	0	1	0	0	12	0	0	0	0	0	0	13
PKIA	0	1	0	0	2	1	2	0	0	5	2	13
CTSZ	0	0	0	3	0	2	8	0	0	0	0	13
DOK2	0	1	7	0	0	0	0	0	0	3	1	12
SOCS3	2	0	6	0	0	0	0	0	0	0	4	12
TUBGCP6	1	0	4	2	0	0	0	2	2	1	0	12
SFN	0	0	4	0	0	1	0	0	0	4	3	12
PKLR	0	0	2	0	0	4	6	0	0	0	0	12
BIRC3	7	0	0	5	0	0	0	0	0	0	0	12
TNFAIP8L2	7	1	0	3	0	0	0	0	0	0	1	12
SV2A	1	0	0	0	2	0	0	6	0	0	3	12
BCL11A	0	7	0	4	0	0	0	0	1	0	0	12
SLC44A4	0	4	0	0	1	1	0	1	4	0	1	12
PTPRCAP	0	2	0	0	0	1	6	0	0	2	1	12
CYFIP2	0	0	0	5	0	0	0	0	7	0	0	12
TMEM173	0	0	0	2	0	1	1	2	2	4	0	12
FLRT2	0	0	8	0	3	0	0	0	0	0	0	11
TRIB2	0	0	7	4	0	0	0	0	0	0	0	11
PNMA1	5	0	4	2	0	0	0	0	0	0	0	11
GJB5	5	0	2	0	0	0	0	1	2	0	1	11
BCAS1	8	3	0	0	0	0	0	0	0	0	0	11
OAS2	1	1	0	1	2	0	2	1	1	1	1	11
CRISPLD1	1	0	0	0	2	0	0	0	1	5	2	11
CSTA	1	0	0	9	0	0	0	0	1	0	0	11
PCOLCE	0	7	0	0	0	0	0	0	0	4	0	11
VTCN1	0	3	0	0	0	0	0	0	1	5	2	11
GPR171	0	2	0	2	4	0	0	0	2	1	0	11
ATP8A2	0	0	0	7	0	0	0	0	2	2	0	11
TLR8	0	0	0	7	0	0	4	0	0	0	0	11
PLEK	0	0	0	5	0	0	0	0	0	4	2	11

CCDC89	0	0	0	2	0	1	0	3	1	1	3	11
PTPRM	0	0	0	0	10	0	0	0	0	0	1	11
LCP1	0	0	0	0	6	1	0	3	1	0	0	11
MSI1	0	0	0	0	5	0	0	0	6	0	0	11
SERPINF1	0	0	0	0	3	5	0	3	0	0	0	11
CMTM3	0	0	7	0	0	1	0	0	1	0	1	10
NCKAP1L	0	1	6	0	0	3	0	0	0	0	0	10
LRRC2	0	0	3	0	0	2	0	0	0	0	5	10
CTTNBP2	0	4	1	0	2	0	0	0	3	0	0	10
DIXDC1	7	3	0	0	0	0	0	0	0	0	0	10
DSE	6	0	0	0	0	0	0	0	4	0	0	10
C14orf132	4	0	0	0	0	6	0	0	0	0	0	10
CTSS	2	0	0	0	8	0	0	0	0	0	0	10
TRIM29	0	4	0	0	0	0	0	0	1	5	0	10
ARAP3	0	2	0	0	0	8	0	0	0	0	0	10
TAGLN	0	2	0	0	0	5	0	0	0	1	2	10
ELOVL4	0	1	0	0	0	0	0	2	0	0	7	10
WNK2	0	1	0	0	8	0	0	0	1	0	0	10
BASP1	0	0	0	6	1	0	2	0	0	0	1	10
KIAA0247	0	0	0	3	0	0	0	1	0	6	0	10
TCF4	0	0	0	0	6	0	0	0	0	0	4	10
ADD2	0	0	0	0	1	0	0	0	8	0	1	10
ATRNL1	0	0	0	0	0	4	0	0	6	0	0	10
RCSD1	0	0	0	0	0	1	0	3	6	0	0	10