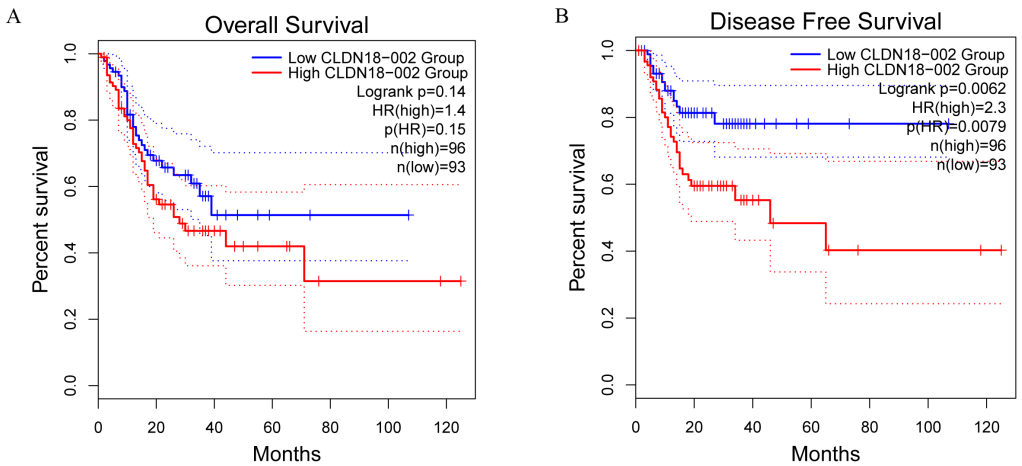

Figure S1 Relation of OS/DFS and CLDN18.2 expression in GC according to TCGA. (A) OS was irrelated with CLDN18.2 expression. (B) DFS was related with CLDN18.2 expression. HR, hazard ratio; n, number of cases.

Table S1 The relation between CLDN18.2 expression and TNM stage in stage III patients

Stage	TNM		Total cases (%)	CLDN18.2 expression			
				Staining intensity ≥2+ in ≥40% of cells (%)	P value	Staining intensity ≥2+ in ≥90% of cells (%)	P value
III	T	T3	62 (67.4)	40 (64.5)	0.674	15 (24.2)	0.108
		T4	30 (32.6)	18 (60.0)		3 (10.0)	
	N	N1	6 (6.5)	2 (33.3)	0.293	0 (0.0)	0.326
		N2	18 (19.6)	12 (66.7)		5 (27.8)	
		N3	68 (73.9)	44 (64.7)		13 (19.1)	

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Table S2 The summary information of the sequenced patients

Group	Patients number	SNVs	CNVs	Age	Gender	Stage
Claudin18.2 expressed in <40% of tumor cells	F1512239113	SF3B1	None	62	M	IIIB
	F1512239126	RAD50, CDK6, MDM2, STAG2, ROS1, PIK3CA, ALK, RHOA, PHOX2B, PKD1, GRIN2A, EZH2, JAK1, RNF43	TNFRSF14	62	M	IIIB
	F1512239103	PRSS3, TSC2, TOP2A, PKHD1, EPHA3, BRCA1, PDGFRA	CCNE1	74	M	IIIC
	F1512289348	PARP2, TUBB2B	None	29	F	IV
	F1512239125	MAP3K1, KDR, STAG2, AXL, CREBBP, CYLD, RRM1, EZH2	MED12, IKBKE, XPC, CDK12, FGFR1, CSF3, CASC3, GSDMA, CDC6, GSDMB, ORMDL3, LRRC3C, RAPGEFL1, MSL1, WIPF2, PSMD3, NR1D1, ZPBP2, RARA, MED24, GRB7, ERBB2	68	M	IV
	F1512239107	TP53	CDK12	51	F	IIIB
	F1512239097	BRIP1, WISP3, TOP2A, PKHD1, CDH1, STAG2, MTOR, ATRX, ROS1, ARID1A, KDM5A, TOP2A, FANCA, EPHA3, GRIN2A, TTF1, SMARCA4, NSD1, KDM5A, PALLD, EPCAM, PMS1, PCDH11Y, WRN	GATA2, ERCC2, FGFR4, NOTCH1, FLT4, HNF1A, CDKN2B, CDKN2A, RECQL4	52	M	IIIC
	F1512239098	NKX2-4, TP53	ERBB3, WT1	69	M	IIIB
	F1512289328	AXL, GATA6, IGF1R	None	57	F	IIIA
	F1512289347	MET, CYP2D6, GSTM5, ERBB2	None	66	F	IIIC
	F16020411111	GRM3	None	66	F	IIIB
	F16020411108	TP53, PKHD1, ATRX, ERBB3, TGFBR2, MLH3, ERBB2, RNF43, AKT1	NOTCH1, FLT4, RECQL4	36	F	IIIB
	F1512239112	CDH1, ARID1A	None	47	F	IIIA
	F1512289322	IL7R, DDR2, WRN, RICTOR, RUNX1, TP53, GRIN2A	None	42	F	IIIB
	F1512239111	FGFR2, PRDM12, RAD51, MPL, MUTYH, PCDH11X	None	77	M	IIIA
Claudin18.2 expressed in ≥40% of tumor cells	F1512239099	TUBB3, TP53, PKHD1, ERBB3	MUTYH, HNF1A, XPC, IKBKE	53	F	IIIB
	F1512289323	CDH1	CSF3, CASC3, GSDMA, CDC6, GSDMB, ORMDL3, LRRC3C, RAPGEFL1, MSL1, PSMD3, WIPF2, NR1D1, ZPBP2, RARA, MED24, GRB7, MIEN1, ERBB2, IKZF3	58	M	IIIB
	F1512239101	MED12, ADH1C	CDK6	44	M	IIIC
	F1512239104	TP53, ATRX, PTCH1, BRCA1, POLE, FLCN, SF3B1	None	56	M	IIIB
	F1512289326	TP53, PKHD1, TTF1, BLM, KIT, PIK3CA, EPAS1, RET, PDE11A, PARP1, KMT2B, FLCN, JAK2, CYP2B6, PRF1, MPL, RICTOR, ABCB4, CTCF, ZNF217, GNAQ, PRKACA, UGT1A1, UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9	None	55	M	IIIB
	F1512239110	None	FLT1, PAN3, FLT3, CCND1	56	M	IIIC
	F1512239114	PDGFRB, NOTCH2, BRCA2, JAK1, BARD1, PRDM12, PRSS3, GATA2, HGF, CYP2B6, ATM, FLT3, RARA, ERCC4	None	37	M	IIIC
	F1512239115	WAS, ASXL1, VHL, AKT2, PMS2, PKHD1, MED12, ARID1A, FANCD2, CHD4, TGFBR2, SMARCA4, SETD2, PDE11A, PARP1, CSF1R, SDHB, PARK2, TSC2, SMO, RHOA	None	57	M	IIIB
	F1512289330	MEGF9, WAS, UGT1A1, CDKN1C, MED12, TTF1, FGFR2, NF1, PAK3	WRN	49	M	IIIC
	F1512239116	TP53, PTEN	FGFR1	50	M	IIIC
	F1512289331	NF1, TUBB4A, ESR1, GSTP1, ATRX	None	58	F	IIIC
	F1512289332	MTOR, FANCA, PKD1, MED12, PKHD1, POLD1, FANCG, SGK1, NAT1, CDKN1A, NAT2, NBN, SRY, PTPN11, AKT1, FGFR4, THADA, NTRK1, BTK, ATM, RB1, IKBKE, ROS1, AXL, TEK, NOTCH2, MLH3, PTEN, SETD2, KDM5A, JAK1, PDGFRA, BARD1, CDK12, PDE11A, PMS1, POLE, POLH, ERBB2, SDHB, DPYD, JAK3, TSC2, AXIN2, ERCC2, RAC1, DENND1A, KDR	None	46	M	IIIB
	F1512239119	PKHD1, RRM1, PTPN11, STAT3, FANCF, GATA3, MET, IGF1R, PAK3, RB1, CYP2B6, JAK2, GATA2, JAK3, RAD51, PMS1, PARP1, PDE11A, PALB2, BARD1, PALLD, ERCC3, BRCA1, KDM5A, BRCA2, CREBBP, LHCGR, NSD1, PTCH1, APC, TET2, GRM3, SMARCA4, EZH2, NOTCH2, GNAS, NF1, TEK, KIT, EPCAM, FGFR2, BLM, IL7R, KMT2A, GRIN2A, PDGFRB, CDH1, MED12, KDR, PKD1, STAG2, FANCA, FAT1, AMER1, ROS1, ARID2, FANCD2, SETD2	TNFAIP3, EGFR	63	M	IIIB
	F1512289335	MED12, TEK	None	48	M	IIIA
	F1512289336	CHD4, PDK1, NRAS	None	48	M	IIIB
	F1512289337	TP53, KDR, PIK3CA, CDK12, FGFR3	NOTCH1, FLT4, HNF1A, RPTOR, FGFR3	66	M	IIIB
	F1512239123	PRDM12, TTF1, BLM, NF1	FLT4, RPTOR, GATA2, NOTCH1	68	M	IIIC
	F1512239127	PTPRD, CDH1	FGFR1, SMO, MYD88	48	M	IIIB
	F1512239128	TUBB4A, TSHR, CYP2D6	None	47	F	IIIB
	F1512239129	MED12, FANCD2, PCDH11Y	NOTCH1, BAP1	51	M	IIIC
	F1512289343	ATM, GNAS, BRCA1	CCND1	64	M	IIIC
	F1512289344	None	CDKN2B, CDKN2A, CDK6, CCND1	62	M	IIIB
	F1512239131	PIK3CA, RECQL4	MET	49	M	IIIB
	F1512289345	BCL2L11, KRAS, CDH1, MED12, AMER1	None	62	F	IV
	F1512289349	NTRK1, CDH1	PRDM1	48	M	IIIC
	F1512239134	None	NOTCH1, FLT4, HNF1A, RECQL4, RPTOR, SMO, BAP1, ERCC2, FLCN, FANCA, CREBBP, TSC2	48	M	IIIB
	F16020411109	MED12, STK11, XPC	NOTCH1	63	M	IIIC
	F1512239108	None	CDK12, MDM2	32	F	IIIB
	F1512289333	JAK1, DDR2, ABCB4, MYCN, MGMT, PDCD1, ERCC2, PAK3, QKI, RAD51, POLE, RET, FANCD2, PTCH1, BRCA2, APC, FGFR2, CHD4, BLM, PDGFRB, FAT1, ATRX, ARID2, AMER1, TOP1, FGFR1, NF2, TSC1, RAD51C, EGFR, TP53, PKHD1, CDH1, MED12, KDR, FANCA	CCND1	45	F	IIIB
	F1512239117	STK11, ALK, WRN, EPCAM, CDK12, PDGFRA, TET2, PTEN, EPAS1, PIK3CA, EPHA3, NF1, CHD4, PDGFRB, ARID2, FLT4, ARID1A, PIK3R1, AMER1, ATRX, FAT1, MTOR, STAG2, FGFR4, PKHD1, MSH6, MUTYH, BRIP1, PIK3C3, MYC, CYP2C19, PRDM1	CDKN2B, CDKN2A, NOTCH1	70	M	IIIA
	F1512239100	None	WT1	80	M	IIIB
	F1512239102	ROS1, ARID1A, CDKN1B	None	49	M	IIIB
	F1512289324	TP53	NOTCH1	40	M	IIIB
	F1512239106	MED12, GSTM5, ATRX, TOP1	WT1, TNFRSF14, EXT2	58	M	IIIB
	F1512239109	PRDM12	IKBKE, CDKN2B, CDKN2A	57	M	IIIB
	F1512289329	TP53, CDH1, ARID1A, ETV1, FLT4, PTCH1	NOTCH1	57	M	IIIB
	F1512239120	PRSS3	None	49	M	IIIA
	F1512239121	ARIH1	XPC	40	M	IV
	F1512239122	TP53, AXL, RHOA	None	44	M	IIIA
	F1512239124	RNF43, STAG2, TGFBR2, ALK, ERBB2	None	54	F	IIIB
	F1512289338	CDH1, ROS1, GNAS, ATR, SMAD4, PKD1, LHCGR	None	48	M	IIIB
	F1512239132	CDH1, LZTR1	None	67	M	IIIC
	F1512239133	ERBB3, TP53, HNF1A, PKHD1, EPAS1, BARD1	EXT2, TSC1, MITF, NSD1	46	M	IIIC
	F16020411106	ARID1A, ERBB3, TP53, GNAS, CREBBP, DNMT3A, EPHA3	KRAS	35	F	IV
	F1512239135	ERBB3, TP53, CDH1, PTEN, LHCGR, GSTM5, HDAC2, GATA1	None	47	F	IIIB
	F16020411107	RAD50, SOX21, ARAF	NOTCH1, FLT4, FGFR3, RECQL4, TNFRSF14	48	F	IV

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Table S3 Genes list and mutation rate of SNV

SNV_genes_list	SNV_number	SNV_rate
TP53	16	26.2%
CDH1	12	19.7%
MED12	11	18.0%
PKHD1	11	18.0%
ARID1A	7	11.5%
ATRX	7	11.5%
STAG2	6	9.8%
ROS1	6	9.8%
NF1	5	8.2%
ERBB3	5	8.2%
KDR	5	8.2%
PIK3CA	5	8.2%
GRIN2A	4	6.6%
AXL	4	6.6%
EPHA3	4	6.6%
ERBB2	4	6.6%
AMER1	4	6.6%
BARD1	4	6.6%
BLM	4	6.6%
CHD4	4	6.6%
FANCD2	4	6.6%
GNAS	4	6.6%
PDE11A	4	6.6%
PDGFRB	4	6.6%
PTCH1	4	6.6%
PTEN	4	6.6%
BRCA1	4	6.6%
FANCA	4	6.6%
FGFR2	4	6.6%
JAK1	4	6.6%
PKD1	4	6.6%
PRDM12	4	6.6%
TTF1	4	6.6%
EZH2	3	4.9%
RNF43	3	4.9%
WRN	3	4.9%
ARID2	3	4.9%
ATM	3	4.9%
BRCA2	3	4.9%
CDK12	3	4.9%
CYP2B6	3	4.9%
EPAS1	3	4.9%
FAT1	3	4.9%
LHCGR	3	4.9%
NOTCH2	3	4.9%
PAK3	3	4.9%
PARP1	3	4.9%
POLE	3	4.9%
SETD2	3	4.9%
TEK	3	4.9%
ALK	3	4.9%
CREBBP	3	4.9%
EPCAM	3	4.9%
GSTM5	3	4.9%
KDM5A	3	4.9%
MTOR	3	4.9%
PDGFRA	3	4.9%
PMS1	3	4.9%
PRSS3	3	4.9%
RAD51	3	4.9%
RHOA	3	4.9%
SMARCA4	3	4.9%
TGFBR2	3	4.9%
TSC2	3	4.9%
TOP2A	2	3.3%
AKT1	2	3.3%
BRIP1	2	3.3%
CYP2D6	2	3.3%
DDR2	2	3.3%
GRM3	2	3.3%
IGF1R	2	3.3%
IL7R	2	3.3%
MET	2	3.3%
MLH3	2	3.3%
MPL	2	3.3%
MUTYH	2	3.3%
NSD1	2	3.3%
PALLD	2	3.3%
PCDH11Y	2	3.3%
RAD50	2	3.3%
RICTOR	2	3.3%
RRM1	2	3.3%
SF3B1	2	3.3%
ABCB4	2	3.3%
APC	2	3.3%
ERCC2	2	3.3%
FGFR4	2	3.3%
FLCN	2	3.3%
FLT4	2	3.3%
GATA2	2	3.3%
JAK2	2	3.3%
JAK3	2	3.3%
KIT	2	3.3%
NTRK1	2	3.3%
PTPN11	2	3.3%
RB1	2	3.3%
RET	2	3.3%
SDHB	2	3.3%
STK11	2	3.3%
TET2	2	3.3%
TOP1	2	3.3%
TUBB4A	2	3.3%
UGT1A1	2	3.3%
WAS	2	3.3%
CDK6	1	1.6%
CYLD	1	1.6%
GATA6	1	1.6%
MAP3K1	1	1.6%
MDM2	1	1.6%
NKX2-4	1	1.6%
PARP2	1	1.6%
PCDH11X	1	1.6%
PHOX2B	1	1.6%
RUNX1	1	1.6%
TUBB2B	1	1.6%
WISP3	1	1.6%
ADH1C	1	1.6%
AKT2	1	1.6%
ARAF	1	1.6%
ARIH1	1	1.6%
ASXL1	1	1.6%
ATR	1	1.6%
AXIN2	1	1.6%
BCL2L11	1	1.6%
BTK	1	1.6%
CDKN1A	1	1.6%
CDKN1B	1	1.6%
CDKN1C	1	1.6%
CSF1R	1	1.6%
CTCF	1	1.6%
CYP2C19	1	1.6%
DENND1A	1	1.6%
DNMT3A	1	1.6%
DPYD	1	1.6%
EGFR	1	1.6%
ERCC3	1	1.6%
ERCC4	1	1.6%
ESR1	1	1.6%
ETV1	1	1.6%
FANCF	1	1.6%
FANCG	1	1.6%
FGFR1	1	1.6%
FGFR3	1	1.6%
FLT3	1	1.6%
GATA1	1	1.6%
GATA3	1	1.6%
GNAQ	1	1.6%
GSTP1	1	1.6%
HDAC2	1	1.6%
HGF	1	1.6%
HNF1A	1	1.6%
IKBKE	1	1.6%
KMT2A	1	1.6%
KMT2B	1	1.6%
KRAS	1	1.6%
LZTR1	1	1.6%
MEGF9	1	1.6%
MGMT	1	1.6%
MSH6	1	1.6%
MYC	1	1.6%
MYCN	1	1.6%
NAT1	1	1.6%
NAT2	1	1.6%
NBN	1	1.6%
NF2	1	1.6%
NRAS	1	1.6%
PALB2	1	1.6%
PARK2	1	1.6%
PDCD1	1	1.6%
PDK1	1	1.6%
PIK3C3	1	1.6%
PIK3R1	1	1.6%
PMS2	1	1.6%
POLD1	1	1.6%
POLH	1	1.6%
PRDM1	1	1.6%
PRF1	1	1.6%
PRKACA	1	1.6%
PTPRD	1	1.6%
QKI	1	1.6%
RAC1	1	1.6%
RAD51C	1	1.6%
RARA	1	1.6%
RECQL4	1	1.6%
SGK1	1	1.6%
SMAD4	1	1.6%
SMO	1	1.6%
SOX21	1	1.6%
SRY	1	1.6%
STAT3	1	1.6%
THADA	1	1.6%
TSC1	1	1.6%
TSHR	1	1.6%
TUBB3	1	1.6%
UGT1A10	1	1.6%
UGT1A3	1	1.6%
UGT1A4	1	1.6%
UGT1A5	1	1.6%
UGT1A6	1	1.6%
UGT1A7	1	1.6%
UGT1A8	1	1.6%
UGT1A9	1	1.6%
VHL	1	1.6%
XPC	1	1.6%
ZNF217	1	1.6%

Table S4 Genes list and mutation rate of CNV

CNV_genes_list	CNV_number	CNV_rate
NOTCH1	11	18.0%
FLT4	6	9.8%
RECQL4	4	6.6%
CCND1	4	6.6%
CDKN2A	4	6.6%
CDKN2B	4	6.6%
HNF1A	4	6.6%
CDK12	3	4.9%
RPTOR	3	4.9%
FGFR1	3	4.9%
IKBKE	3	4.9%
TNFRSF14	3	4.9%
WT1	3	4.9%
XPC	3	4.9%
CASC3	2	3.3%
CDC6	2	3.3%
CSF3	2	3.3%
ERBB2	2	3.3%
ERCC2	2	3.3%
GATA2	2	3.3%
GRB7	2	3.3%
GSDMA	2	3.3%
GSDMB	2	3.3%
LRRC3C	2	3.3%
MED24	2	3.3%
MSL1	2	3.3%
NR1D1	2	3.3%
ORMDL3	2	3.3%
PSMD3	2	3.3%
RAPGEFL1	2	3.3%
RARA	2	3.3%
WIPF2	2	3.3%
ZPBP2	2	3.3%
BAP1	2	3.3%
CDK6	2	3.3%
EXT2	2	3.3%
FGFR3	2	3.3%
SMO	2	3.3%
CCNE1	1	1.6%
ERBB3	1	1.6%
FGFR4	1	1.6%
MED12	1	1.6%
CREBBP	1	1.6%
EGFR	1	1.6%
FANCA	1	1.6%
FLCN	1	1.6%
FLT1	1	1.6%
FLT3	1	1.6%
IKZF3	1	1.6%
KRAS	1	1.6%
MDM2	1	1.6%
MET	1	1.6%
MIEN1	1	1.6%
MITF	1	1.6%
MUTYH	1	1.6%
MYD88	1	1.6%
NSD1	1	1.6%
PAN3	1	1.6%
PRDM1	1	1.6%
TNFAIP3	1	1.6%
TSC1	1	1.6%
TSC2	1	1.6%
WRN	1	1.6%

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Table S5 Relation of SNVs and CLDN18.2 expression

All_genes_list	SNV_and_A	SNV_and_B	WT_and_A	WT_and_B	Fisher.test
GRIN2A	3	1	12	45	0.043
MED12	0	11	15	35	0.051
TOP2A	2	0	13	46	0.057
EZH2	2	1	13	45	0.147
RNF43	2	1	13	45	0.147
WRN	2	1	13	45	0.147
STAG2	3	3	12	43	0.152
CDK6	1	0	14	46	0.246
CYLD	1	0	14	46	0.246
GATA6	1	0	14	46	0.246
MAP3K1	1	0	14	46	0.246
MDM2	1	0	14	46	0.246
NKX2-4	1	0	14	46	0.246
PARP2	1	0	14	46	0.246
PCDH11X	1	0	14	46	0.246
PHOX2B	1	0	14	46	0.246
RUNX1	1	0	14	46	0.246
TUBB2B	1	0	14	46	0.246
WISP3	1	0	14	46	0.246
AXL	2	2	13	44	0.251
EPHA3	2	2	13	44	0.251
ERBB2	2	2	13	44	0.251
NF1	0	5	15	41	0.321
AKT1	1	1	14	45	0.434
BRIP1	1	1	14	45	0.434
CYP2D6	1	1	14	45	0.434
DDR2	1	1	14	45	0.434
GRM3	1	1	14	45	0.434
IGF1R	1	1	14	45	0.434
IL7R	1	1	14	45	0.434
MET	1	1	14	45	0.434
MLH3	1	1	14	45	0.434
MPL	1	1	14	45	0.434
MUTYH	1	1	14	45	0.434
NSD1	1	1	14	45	0.434
PALLD	1	1	14	45	0.434
PCDH11Y	1	1	14	45	0.434
RAD50	1	1	14	45	0.434
RICTOR	1	1	14	45	0.434
RRM1	1	1	14	45	0.434
SF3B1	1	1	14	45	0.434
AMER1	0	4	15	42	0.564
BARD1	0	4	15	42	0.564
BLM	0	4	15	42	0.564
CHD4	0	4	15	42	0.564
FANCD2	0	4	15	42	0.564
GNAS	0	4	15	42	0.564
PDE11A	0	4	15	42	0.564
PDGFRB	0	4	15	42	0.564
PTCH1	0	4	15	42	0.564
PTEN	0	4	15	42	0.564
ARID2	0	3	15	43	0.569
ATM	0	3	15	43	0.569
BRCA2	0	3	15	43	0.569
CDK12	0	3	15	43	0.569
CYP2B6	0	3	15	43	0.569
EPAS1	0	3	15	43	0.569
FAT1	0	3	15	43	0.569
LHCGR	0	3	15	43	0.569
NOTCH2	0	3	15	43	0.569
PAK3	0	3	15	43	0.569
PARP1	0	3	15	43	0.569
POLE	0	3	15	43	0.569
SETD2	0	3	15	43	0.569
TEK	0	3	15	43	0.569
ROS1	2	4	13	42	0.630
CDH1	2	10	13	36	0.712
ABCB4	0	2	15	44	1.000
ADH1C	0	1	15	45	1.000
AKT2	0	1	15	45	1.000
ALK	1	2	14	44	1.000
APC	0	2	15	44	1.000
ARAF	0	1	15	45	1.000
ARID1A	2	5	13	41	1.000
ARIH1	0	1	15	45	1.000
ASXL1	0	1	15	45	1.000
ATR	0	1	15	45	1.000
ATRX	2	5	13	41	1.000
AXIN2	0	1	15	45	1.000
BCL2L11	0	1	15	45	1.000
BRCA1	1	3	14	43	1.000
BTK	0	1	15	45	1.000
CDKN1A	0	1	15	45	1.000
CDKN1B	0	1	15	45	1.000
CDKN1C	0	1	15	45	1.000
CREBBP	1	2	14	44	1.000
CSF1R	0	1	15	45	1.000
CTCF	0	1	15	45	1.000
CYP2C19	0	1	15	45	1.000
DENND1A	0	1	15	45	1.000
DNMT3A	0	1	15	45	1.000
DPYD	0	1	15	45	1.000
EGFR	0	1	15	45	1.000
EPCAM	1	2	14	44	1.000
ERBB3	1	4	14	42	1.000
ERCC2	0	2	15	44	1.000
ERCC3	0	1	15	45	1.000
ERCC4	0	1	15	45	1.000
ESR1	0	1	15	45	1.000
ETV1	0	1	15	45	1.000
FANCA	1	3	14	43	1.000
FANCF	0	1	15	45	1.000
FANCG	0	1	15	45	1.000
FGFR1	0	1	15	45	1.000
FGFR2	1	3	14	43	1.000
FGFR3	0	1	15	45	1.000
FGFR4	0	2	15	44	1.000
FLCN	0	2	15	44	1.000
FLT3	0	1	15	45	1.000
FLT4	0	2	15	44	1.000
GATA1	0	1	15	45	1.000
GATA2	0	2	15	44	1.000
GATA3	0	1	15	45	1.000
GNAQ	0	1	15	45	1.000
GSTM5	1	2	14	44	1.000
GSTP1	0	1	15	45	1.000
HDAC2	0	1	15	45	1.000
HGF	0	1	15	45	1.000
HNF1A	0	1	15	45	1.000
IKBKE	0	1	15	45	1.000
JAK1	1	3	14	43	1.000
JAK2	0	2	15	44	1.000
JAK3	0	2	15	44	1.000
KDM5A	1	2	14	44	1.000
KDR	1	4	14	42	1.000
KIT	0	2	15	44	1.000
KMT2A	0	1	15	45	1.000
KMT2B	0	1	15	45	1.000
KRAS	0	1	15	45	1.000
LZTR1	0	1	15	45	1.000
MEGF9	0	1	15	45	1.000
MGMT	0	1	15	45	1.000
MSH6	0	1	15	45	1.000
MTOR	1	2	14	44	1.000
MYC	0	1	15	45	1.000
MYCN	0	1	15	45	1.000
NAT1	0	1	15	45	1.000
NAT2	0	1	15	45	1.000
NBN	0	1	15	45	1.000
NF2	0	1	15	45	1.000
NRAS	0	1	15	45	1.000
NTRK1	0	2	15	44	1.000
PALB2	0	1	15	45	1.000
PARK2	0	1	15	45	1.000
PDCD1	0	1	15	45	1.000
PDGFRA	1	2	14	44	1.000
PDK1	0	1	15	45	1.000
PIK3C3	0	1	15	45	1.000
PIK3CA	1	4	14	42	1.000
PIK3R1	0	1	15	45	1.000
PKD1	1	3	14	43	1.000
PKHD1	3	8	12	38	1.000
PMS1	1	2	14	44	1.000
PMS2	0	1	15	45	1.000
POLD1	0	1	15	45	1.000
POLH	0	1	15	45	1.000
PRDM1	0	1	15	45	1.000
PRDM12	1	3	14	43	1.000
PRF1	0	1	15	45	1.000
PRKACA	0	1	15	45	1.000
PRSS3	1	2	14	44	1.000
PTPN11	0	2	15	44	1.000
PTPRD	0	1	15	45	1.000
QKI	0	1	15	45	1.000
RAC1	0	1	15	45	1.000
RAD51	1	2	14	44	1.000
RAD51C	0	1	15	45	1.000
RARA	0	1	15	45	1.000
RB1	0	2	15	44	1.000
RECQL4	0	1	15	45	1.000
RET	0	2	15	44	1.000
RHOA	1	2	14	44	1.000
SDHB	0	2	15	44	1.000
SGK1	0	1	15	45	1.000
SMAD4	0	1	15	45	1.000
SMARCA4	1	2	14	44	1.000
SMO	0	1	15	45	1.000
SOX21	0	1	15	45	1.000
SRY	0	1	15	45	1.000
STAT3	0	1	15	45	1.000
STK11	0	2	15	44	1.000
TET2	0	2	15	44	1.000
TGFBR2	1	2	14	44	1.000
THADA	0	1	15	45	1.000
TOP1	0	2	15	44	1.000
TP53	4	12	11	34	1.000
TSC1	0	1	15	45	1.000
TSC2	1	2	14	44	1.000
TSHR	0	1	15	45	1.000
TTF1	1	3	14	43	1.000
TUBB3	0	1	15	45	1.000
TUBB4A	0	2	15	44	1.000
UGT1A1	0	2	15	44	1.000
UGT1A10	0	1	15	45	1.000
UGT1A3	0	1	15	45	1.000
UGT1A4	0	1	15	45	1.000
UGT1A5	0	1	15	45	1.000
UGT1A6	0	1	15	45	1.000
UGT1A7	0	1	15	45	1.000
UGT1A8	0	1	15	45	1.000
UGT1A9	0	1	15	45	1.000
VHL	0	1	15	45	1.000
WAS	0	2	15	44	1.000
XPC	0	1	15	45	1.000
ZNF217	0	1	15	45	1.000

A, CLDN18.2 expressed in <40% of tumor cells; B, CLDN18.2 expressed in ≥40% of tumor cells.

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Table S6 Relation of CNVs and CLDN18.2 expression

All_genes_list	CNV_and_A	CNV_and_B	WT_and_A	WT_and_B	Fisher.test
CDK12	2	1	13	45	0.147
CCNE1	1	0	14	46	0.246
ERBB3	1	0	14	46	0.246
FGFR4	1	0	14	46	0.246
MED12	1	0	14	46	0.246
RECQL4	2	2	13	44	0.251
CASC3	1	1	14	45	0.434
CDC6	1	1	14	45	0.434
CSF3	1	1	14	45	0.434
ERBB2	1	1	14	45	0.434
ERCC2	1	1	14	45	0.434
GATA2	1	1	14	45	0.434
GRB7	1	1	14	45	0.434
GSDMA	1	1	14	45	0.434
GSDMB	1	1	14	45	0.434
LRRC3C	1	1	14	45	0.434
MED24	1	1	14	45	0.434
MSL1	1	1	14	45	0.434
NR1D1	1	1	14	45	0.434
ORMDL3	1	1	14	45	0.434
PSMD3	1	1	14	45	0.434
RAPGEFL1	1	1	14	45	0.434
RARA	1	1	14	45	0.434
WIPF2	1	1	14	45	0.434
ZPBP2	1	1	14	45	0.434
CCND1	0	4	15	42	0.564
RPTOR	0	3	15	43	0.569
FLT4	2	4	13	42	0.630
NOTCH1	2	9	13	37	0.716
BAP1	0	2	15	44	1.000
CDK6	0	2	15	44	1.000
CDKN2A	1	3	14	43	1.000
CDKN2B	1	3	14	43	1.000
CREBBP	0	1	15	45	1.000
EGFR	0	1	15	45	1.000
EXT2	0	2	15	44	1.000
FANCA	0	1	15	45	1.000
FGFR1	1	2	14	44	1.000
FGFR3	0	2	15	44	1.000
FLCN	0	1	15	45	1.000
FLT1	0	1	15	45	1.000
FLT3	0	1	15	45	1.000
HNF1A	1	3	14	43	1.000
IKBKE	1	2	14	44	1.000
IKZF3	0	1	15	45	1.000
KRAS	0	1	15	45	1.000
MDM2	0	1	15	45	1.000
MET	0	1	15	45	1.000
MIEN1	0	1	15	45	1.000
MITF	0	1	15	45	1.000
MUTYH	0	1	15	45	1.000
MYD88	0	1	15	45	1.000
NSD1	0	1	15	45	1.000
PAN3	0	1	15	45	1.000
PRDM1	0	1	15	45	1.000
SMO	0	2	15	44	1.000
TNFAIP3	0	1	15	45	1.000
TNFRSF14	1	2	14	44	1.000
TSC1	0	1	15	45	1.000
TSC2	0	1	15	45	1.000
WRN	0	1	15	45	1.000
WT1	1	2	14	44	1.000
XPC	1	2	14	44	1.000

A, CLDN18.2 expressed in <40% of tumor cells; B, CLDN18.2 expressed in ≥40% of tumor cells.

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