

Table S4. Genetic alterations identified by targeted next generation sequencing in co-occurring IPMNs/PDACs of known relatedness.

Patient ID	Carcinoma							adj-IPMN							Relatedness WES	Relatedness targeted NGS
	Gene	SNV position	Amino acid change	Mutation type	Consequence	Coverage	Variant allele frequency (%)	Gene	SNV position	Amino acid change	Mutation type	Consequence	Coverage	Variant allele frequency (%)		
MTP1 WES	KRAS	chr12:2528955 C>A	p.G12V	Substitution	Missense		18	KRAS	chr12:2528955 C>A	p.G12V	Substitution	Missense		43		
	TP53	chr17:7514742 C>A	p.R337L	Substitution	Missense		39	TP53	chr17:7514742 C>A	p.R337L	Substitution	Missense		65		
	CDKN2A	chr9:21964716 delGGGGGGGG	NA	Deletion	Frameshift		21	CDKN2A	chr9:21964716 delGGGGGGGG	NA	Deletion	Frameshift		21		
MTP1 Targeted NGS	KRAS	chr12:2528955 C>A	p.G12V	Substitution	Missense	3192	45	KRAS	chr12:2528955 C>A	p.G12V	Substitution	Missense	2372	33		
	TP53	chr17:7514742 C>A	p.R337L	Substitution	Missense	1803	61	TP53	chr17:7514742 C>A	p.R337L	Substitution	Missense	1252	53		
	RNF43	Chr17:56435964	p.R392Sfs	Insertion	Frameshift	189	9.5	RNF43	Chr17:56435964 insG	p.R392Sfs	Insertion	Frameshift	335	25		
MTP2 WES	KRAS	chr12:2528955 C>A	p.G12V	Substitution	Missense		50	KRAS	chr12:2528955 C>A	p.G12V	Substitution	Missense		35		
	TP53	chr17:7518931 delTA	p.H214Qfs	Deletion	Frameshift		40	TP53	chr17:7518931 delTA	p.H214Qfs	Deletion	Frameshift		52		
	SMAD4	chr18:46858785 G>T	p.D537Y	Substitution	Missense		34	SMAD4	chr18:46858785 G>T	p.D537Y	Substitution	Missense		66		
MTP2 Targeted NGS	KRAS	chr12:2528955 C>A	p.G12V	Substitution	Missense	4771	44	KRAS	chr12:2528955 C>A	p.G12V	Substitution	Missense	2336	50		
	TP53	chr17:7518931 delTA	p.H214Qfs	Deletion	Frameshift	2497	70	TP53	chr17:7518931 delTA	p.H214Qfs	Deletion	Frameshift	1407	55		
	SMAD4	chr18:46858785 G>T	p.D537Y	Substitution	Missense	421	69	SMAD4	chr18:46858785 G>T	p.D537Y	Substitution	Missense	238	45		
	CDKN2A	Chr9:21974695delG	p.Y44Xfs	Deletion	Frameshift	511	66	CDKN2A	Chr9:21974695delG	p.Y44Xfs	Deletion	Frameshift	397	54		
MTP4 WES	KRAS	chr12:2528952 C>A	p.G12R	Substitution	Missense		14	KRAS	chr12:2528952 C>A	p.G12R	Substitution	Missense		20		
	TP53	chr17:7517845 C>T	p.R273H	Substitution	Missense		32	TP53	chr17:7517845 C>T	p.R273H	Substitution	Missense		33		
	SMAD4	chr18:46829099 A>G	p.D355A	Substitution	Missense		29	SMAD4	chr18:46829099 A>G	p.D355A	Substitution	Missense		24		
	CDKN2A	chr9:21964748 C>A	p.E27X	Substitution	Nonsense		35	CDKN2A	chr9:21964748 C>A	p.E27X	Substitution	Nonsense		34		
MTP4 Targeted NGS	KRAS	chr12:2528952 C>A	p.G12R	Substitution	Missense	1997	27	KRAS	chr12:2528952 C>A	p.G12R	Substitution	Missense	2546	27		
	TP53	chr17:7517845 C>T	p.R273H	Substitution	Missense	841	29	TP53	chr17:7517845 C>T	p.R273H	Substitution	Missense	1145	33		
	SMAD4	chr18:46829099 A>G	p.D355A	Substitution	Missense	2221	29	SMAD4	chr18:46829099 A>G	p.D355A	Substitution	Missense	2845	30		
	CDKN2A	chr9:21964748 C>A	p.E27X	Substitution	Nonsense	257	35	CDKN2A	chr9:21964748 C>A	p.E27X	Substitution	Nonsense	371	29		
MTP19 WES	KRAS	chr12:2528951 C>A	p.G12V	Substitution	Missense		50	KRAS	chr12:2528951 C>A	p.G12V	Substitution	Missense		19		
	TP53	chr17:7519144 C>A	p.E171X	Substitution	Missense		85	TP53	chr17:7519144 C>A	p.E171X	Substitution	Missense		14		
MTP19 Targeted NGS	KRAS	chr12:2528951 C>A	p.G12V	Substitution	Missense	1307	12	KRAS	chr12:2528951 C>A	p.G12V	Substitution	Missense	1737	64		
	TP53	chr17:7519144 C>A	p.E171X	Substitution	Missense	659	16	TP53	chr17:7519144 C>A	p.E171X	Substitution	Missense	659	82		
MTP24 WES	KRAS	chr12:2528951 C>A	p.G12V	Substitution	Missense		9	KRAS	chr12:2528951 C>A	p.G12V	Substitution	Missense		11		
MTP24 Targeted NGS	KRAS	chr12:2528951 C>A	p.G12V	Substitution	Missense	684	18	KRAS	chr12:2528951 C>A	p.G12V	Substitution	Missense	2034	37		
	SMAD4	chr18:46829099 A>G	p.G352R	Substitution	Missense	1890	15	SMAD4	chr18:46829099 A>G	p.G352R	Substitution	Missense	1890	61		