







IPP41	KRAS	1011	Chr12:25398284 C>A	p.G12V	Substitution	Missense	20.8	Not detected	KRAS	353	Chr12:25398284 C>A	p.G12V	Substitution	Missense	20.3	Not detected	N/A								
IPP42	KRAS	1634	Chr12:25398284 C>A	p.G12V	Substitution	Missense	20.4	N/A	KRAS	1065	Chr12:25398284 C>A	p.G12V	Substitution	Missense	62.6	N/A	N/A								
	KRAS	349	Chr12:25398284 C>T	p.G12D	Substitution	Missense	11.9		KRAS	1731	Chr12:25398284 C>A	p.G12V	Substitution	Missense	56.3		KRAS	1378	Chr12:25398284 C>A	p.G12V	Substitution	Missense	15.4		
	GNAS	350	Chr20:57484420 C>T	p.R201C	Substitution	Missense	15.4											272							
IPP43	PIK3CA	125	Chr3:178951955 A>G	p.M1004V	Substitution	Missense	5.4	Not detected										51					Not detected		
		141							TP53	442	Chr17:7578263 G>A	p.R196X	Substitution	Missense	85.9	Not detected		414							
		360							SMAD4	109	Chr18:48573625 delAATG	p.K70fs	Deletion	Frameshift	7			186							
IPP44	KRAS	593	Chr12:25380275 T>G	p.Q61H	Substitution	Missense	24.7	ARID1A (D)	KRAS	1650	Chr12:25380275 T>G	p.Q61H	Substitution	Missense	37.8	Not detected	KRAS	1754	Chr12:25380275 T>G	p.Q61H	Substitution	Missense	35.5	Not detected	
	RNF43	167	Chr17:56435571 C>T	p.M522I	Substitution	Missense	5.9	RNF43 (D)										838							
	RNF43	166	Chr17:56435629 C>T	p.S503I	Substitution	Missense	5.6	SMAD4 (D)										836							
IPP45	KRAS	841	Chr12:25398284 C>T	p.G12D	Substitution	Missense	26.4	Not detected	KRAS	604	Chr12:25398284 C>T	p.G12D	Substitution	Missense	21.1	Not detected								N/A	
	SMAD4	1214	Chr18:48575209 C>T	p.R135X	Substitution	Nonsense	36.3		SMAD4	1439	Chr18:48575209	p.R135X	Substitution	Nonsense	19.8	Not detected									
IPP46	KRAS	1545	Chr12:25398284 C>T	p.G12D	Substitution	Missense	6.7		KRAS	960	Chr12:25398284 C>T	p.G12D	Substitution	Missense	24.9		KRAS	1635	Chr12:25398284 C>A	p.G12V	Substitution	Missense	21.1		
	TP53	604	Chr17:7577539 G>A	p.R248W	Substitution	Missense	14		KRAS	960	Chr12:25398284 C>G	p.G12R	Substitution	Missense	7.6		KRAS	2134	Chr12:25380275 T>G	p.Q61H	Substitution	Missense	13.5		
	RNF43	111	Chr17:56435399 G>A	p.P580S	Substitution	Missense	5.9	Not detected	TP53	705	Chr17:7577539 G>A	p.R248W	Substitution	Missense	17.4	Not detected								Not detected	
		766																525							
		113							GNAS	984	Chr20:57484420 C>T	p.R201C	Substitution	Missense	7.2										10.5
										179								RNF43	169	Chr17:56438296 delG	p.Q233fs	Deletion	Frameshift	10.5	
IPP47	KRAS	2813	Chr12:25398284 C>T	p.G12D	Substitution	Missense	42.2	ARID1A (D)	KRAS	2759	Chr12:25398284 C>T	p.G12D	Substitution	Missense	45.8	ARID1A (D)									N/A
	TGFBR2	288	Chr3:30732969 C>T	p.R553C	Substitution	Missense	64.6	TGFBR2 (D)	TGFBR2	305	Chr3:30732969 C>T	p.R553C	Substitution	Missense	61	TGFBR2 (D)									N/A
	TP53	658	Chr17:7578484 delGAA	p.S149del	Deletion	In-Frame	54.3	SMAD4 (D)	TP53	532	Chr17:7578484 delGAA	p.S149del	Deletion	In-Frame	63.9	SMAD4 (D)									
								MAP2K4 (D)																	
IPP48	KRAS	1737	Chr12:25398284 C>T	p.G12D	Substitution	Missense	18.2	Not detected	KRAS	2550	Chr12:25398284 C>T	p.G12D	Substitution	Missense	18.2	Not detected	KRAS	3637	Chr12:25398284 C>A	p.G12V	Substitution	Missense	30.9	Not detected	
		1737							KRAS	2550	Chr12:25398284 C>T	p.G12V	Substitution	Missense	8.1	Not detected									
		1856							GNAS	775	Chr20:57484420 C>T	p.R201C	Substitution	Missense	13.9	Not detected	GNAS	1007	Chr20:57484420 C>T	p.R201C	Substitution	Missense	16.1	Not detected	
		178							RNF43	209	Chr17:56438206 delCT	p.S262fs	Deletion	Frameshift	8.4										
IPP49	KRAS	750	Chr12:25398285 C>G	p.G12R	Substitution	Missense	48	Not detected	KRAS	448	Chr12:25398285 C>G	p.G12R	Substitution	Missense	17.4	Not detected	KRAS	491	Chr12:25398285 C>G	p.G12R	Substitution	Missense	13.3	Not detected	
	CDKN2A	418	Chr9:21971169delCAGCAGCTCC	p.R58_L63d	Deletion	In-Frame	50.2	Not detected		448							KRAS	491	Chr12:25398284 C>T	p.G12D	Substitution	Missense	16	Not detected	
	TP53	773	Chr17:7577539 G>A	p.R248W	Substitution	Missense	46.2			185							CDKN2A	272	Chr9:21971169delCAGCAGCTCC	p.R58_L63d	Deletion	In-Frame	16.3	Not detected	
IPP50	KRAS	5367	Chr12:25398285 C>G	p.G12R	Substitution	Missense	5.5	Not detected	KRAS	1557	Chr12:25398284 C>A	p.G12V	Substitution	Missense	23.4	Not detected	KRAS	999	Chr12:25398284 C>A	p.G12V	Substitution	Missense	58.3	Not detected	
	KRAS	5367	Chr12:25380282 G>A	p.A59V	Substitution	Missense	10.1	Not detected		1557															
	TP53	138	Chr17:7578263 A>G	p.R196X	Substitution	Nonsense	77	Not detected	TP53	672	Chr17:7578263 A>G	p.R196X	Substitution	Nonsense	29.6	Not detected	TP53	323	Chr17:7578263 A>G	p.R196X	Substitution	Nonsense	80.4	Not detected	
	RNF43	301	Chr17:56440953 C>T	p.M128I	Substitution	Missense	7.8			2540															
IPP51	KRAS	2267	Chr12:25398284 C>A	p.G12V	Substitution	Missense	22.5	TP53 (D)	KRAS	2934	Chr12:25398284 C>A	p.G12V	Substitution	Missense	35.6	TP53 (D)									N/A
IPP52	KRAS	2019	Chr12:25398284 C>A	p.G12V	Substitution	Missense	26.2	Not detected	KRAS	2061	Chr12:25398284 C>A	p.G12V	Substitution	Missense	44.9	Not detected	KRAS	2050	Chr12:25398284 C>A	p.G12V	Substitution	Missense	23.8	Not detected	
	SMAD4	1011	Chr18:48593406 G>T	p.G386V	Substitution	Missense	38.3			219															
		2739							KRAS	574	Chr12:25398284 C>G	p.G12A	Substitution	Missense	7.7										
IPP53	KRAS	1645	Chr12:25380275 T>A	p.Q61H	Substitution	Missense	11.7	Not detected		558															
	GNAS	573	Chr20:57484421 G>A	p.R201H	Substitution	Missense	10.4			102															N/A
	CDKN2A	220	Chr9:21971145 G>C	p.N71K	Substitution	Missense	15.4			115															
	TP53	376	Chr17:7577568 C>T	p.C238Y	Substitution	Missense	13.1			295															
IPP54	KRAS	2932	Chr12:25398284 C>A	p.G12V	Substitution	Missense	9.9	Not detected	KRAS	1102	Chr12:25398284 C>G	p.G12A	Substitution	Missense	9.9	MAP2K4 (D)	KRAS	988	Chr12:25398284 C>T	p.G12D	Substitution	Missense	28.7	MAP2K4 (D)	
	TP53	1336	Chr17:7577124 C>A	p.V272L	Substitution	Missense	9.5			528							TP53	467	Chr17:7572940 delG	p.P390fs	Deletion	Frameshift	15	TP53 (D)	
IPP55	KRAS	1435	Chr12:25398284 C>T	p.G12D	Substitution	Missense	31.1	N/A	KRAS	4105	Chr12:25398284 C>T	p.G12D	Substitution	Missense	41.7	N/A	KRAS	1687	Chr12:25398284 C>T	p.G12D	Substitution	Missense	35.9	N/A	
IPP56	KRAS	4710	Chr12:25398284 C>A	p.G12V	Substitution	Missense	5.6	Not detected	KRAS	1833	Chr12:25398284 C>A	p.G12V	Substitution	Missense	38.2	Not detected	KRAS	1990	Chr12:25398284 C>A	p.G12V	Substitution	Missense	34.1	Not detected	
	TP53	382	Chr17:7578453 delGG	p.A159fs	Deletion	Frameshift	9	Not detected	TP53	377	Chr17:7578453 delGG	p.A159fs	Deletion	Frameshift	65.4	Not detected	TP53	554	Chr17:7578453 delGG	p.A159fs	Deletion	Frameshift	75.1	RNF43 (D)	
		80							RNF43	230	Chr17:56435773 C>T	p.S455N	Substitution	Missense	6.3										
IPC01	KRAS	1234	Chr12:25380275 T>A	p.Q61H	Substitution	Missense	12.1		KRAS	5097	Chr12:25380275 T>A	p.Q61H	Substitution	Missense	47.1		KRAS	5650	Chr12:25380275 T>A	p.Q61H	Substitution	Missense	39.4		
	KRAS	1234	Chr12:25380276 T>A	p.Q61L	Substitution	Missense	12.3		KRAS	5097	Chr12:25380276 T>A	p.Q61L	Substitution	Missense	47.2		KRAS	5650	Chr12:25380276 T>A	p.Q61L	Substitution	Missense	39.8		
	GNAS	248	Chr20:57484456 C>T	p.Q214X	Substitution	Nonsense	13.3	KRAS (A)		1496														ARID1A (D)	
	TP53	214	Chr17:7573973 C>T	p.D352N	Substitution	Missense	13.9			2022														TP53 (D)	
	SMAD4	298	Chr18:48591871 G>A	p.C345Y	Substitution	Missense	10.5			3840															
		117							RNF43	331	Chr17:56435663 C>T	p.G492S	Substitution	Missense	10.5										
IPC02	GNAS	1720	Chr20:57484427 T>C	p.L204P	Substitution	Missense	9.5	N/A									KRAS	2109	Chr12:25380285 G>A	p.T58I	Substitution	Missense	42.9		
	TP53	922	Chr17:7577538 C>T	p.R248Q	Substitution	Missense	12.5										GNAS	465	Chr20:57484427 T>C	p.L204P	Substitution	Missense	37.6	RNF43 (D)	
	RNF43	428	Chr17:56435561 C>T	p.V526M	Substitution	Missense	10.8																		
	ARID1A	515	Chr1:27087554 C>T	p.R710C	Substitution	Missense	10.1																		
IPC03	KRAS	713	Chr12:25398284 C>T	p.G12D	Substitution	Missense	15.5	Not detected	KRAS	254	Chr12:25398284 C>T	p.G12D	Substitution	Missense	33.3	Not detected									N/A
	GNAS	1247	Chr20:57484420 C>T	p.R201C	Substitution	Missense	51.4		GNAS	284	Chr20:57484420 C>T	p.R201C	Substitution	Missense											

IPCO4	KRAS	868	Chr12:25398285 C>G	p.G12R	Substitution	Missense	5	TP53 (D) SMAD4 (D)	KRAS	1520	Chr12:25398285 C>G	p.G12R	Substitution	Missense	52.3	Not detected	N/A																	
		868							KRAS	1520	Chr12:25398285 C>A	p.G12C	Substitution	Missense	13.1																			
	RNF43	293	Chr17:56439945 G>T	p.S216X	Substitution	Nonsense	11	RNF43 (D)	RNF43	584	Chr17:56439945 G>T	p.S216X	Substitution	Nonsense	74.1																			
IPCO5	GNAS	1096	Chr20:57484420 C>T	p.R201C	Substitution	Missense	6.3	RNF43 (D)	GNAS	439	Chr20:57484420 C>T	p.R201C	Substitution	Missense	42.6	Not detected	GNAS	1022	Chr20:57484420 C>T	p.R201C	Substitution	Missense	7.8	Not detected										
		1086							RNF43	741	Chr17:56435026 G>A	p.P704L	Substitution	Missense	10.9																			
IPCO6	GNAS	1009	Chr20:57484420 C>T	p.R201C	Substitution	Missense	14.2	N/A	GNAS	1756	Chr20:57484420 C>T	p.R201C	Substitution	Missense	61.4	Not detected	GNAS	1756	Chr20:57484420 C>T	p.R201C	Substitution	Missense	40.7	Not detected										
	TP53	243	Chr17:7578271 T>C	p.H193R	Substitution	Missense	18.9		TP53	310	Chr17:7578271 T>C	p.H193R	Substitution	Missense	48.2																			
IPCO7	GNAS	684	Chr20:57484421 G>A	p.R201H	Substitution	Missense	10.4	Not detected	GNAS	1681	Chr20:57484421 G>A	p.R201H	Substitution	Missense	65.2	Not detected	N/A																	
IPCO8	GNAS	1188	Chr20:57484420 C>T	p.R201C	Substitution	Missense	61.2	RNF43 (D)	GNAS	1087	Chr20:57484420 C>T	p.R201C	Substitution	Missense	34.9	N/A	N/A																	
		463							TP53	284	Chr17:7577538 C>T	p.R248Q	Substitution	Nonsense	16.8																			
		1077							TP53	1294	Chr17:7578388 C>T	p.R181H	Substitution	Nonsense	11.5																			
		2182							RNF43	3929	Chr17:56440943 G>A	p.R132X	Substitution	Nonsense	13.5																			
IPCO9	GNAS	967	Chr20:57484420 C>T	p.R201C	Substitution	Missense	11.1	TGFB2 (D)	GNAS	557	Chr20:57484420 C>T	p.R201C	Substitution	Missense	41.8	N/A	GNAS	247	Chr20:57484420 C>T	p.R201C	Substitution	Missense	53.7	Not detected										
		293							ARID1A	144	Chr1:27100974 C>T	p.A1419V	Substitution	Missense	12.1																			
		188							RNF43	117	Chr17:56438238 C>T	p.C252Y	Substitution	Missense	13																			
IPCO10	GNAS	613	Chr20:57484420 C>T	p.R201C	Substitution	Missense	14.1	PIK3CA (D)	GNAS	783	Chr20:57484420 C>T	p.R201C	Substitution	Missense	68.8	Not detected	GNAS	247	Chr20:57484420 C>T	p.R201C	Substitution	Missense	53.7	Not detected										
		50							RNF43	938	Chr12:25398284 C>T	p.G12D	Substitution	Missense	40.1																			
		43							RNF43	600	Chr17:56492754 insT	p.N62fs	Substitution	Frameshift	14.6																			
		928																																
		238	Chr20:57484420 C>T	p.R201C	Substitution	Missense	24.4		SMAD4 (D)	GNAS	223	Chr20:57484420 C>T	p.R201C	Substitution	Missense										52.5									
IPCO11	TP53	375	Chr17:7578509 A>C	p.C141G	Substitution	Missense	31.9	SMAD4 (D)	TP53	255	Chr17:7578509 A>C	p.C141G	Substitution	Missense	44.5	Not detected	GNAS	314	Chr20:57484420 C>T	p.R201C	Substitution	Missense	46.6	Not detected										
IPCO12	KRAS	962	Chr12:25398285 C>T	p.G12S	Substitution	Missense	6	Not detected	KRAS	3436	Chr12:25398285 C>T	p.G12S	Substitution	Missense	58.5	Not detected	KRAS	3012	Chr12:25398285 C>T	p.G12S	Substitution	Missense	55.7	Not detected										
	TP53	464	Chr17:7578257 C>A	p.E198X	Substitution	Nonsense	7.6		TP53	1553	Chr17:7578257 C>A	p.E198X	Substitution	Nonsense	90.1																			
IPCO13	GNAS	634	Chr20:57484420 C>T	p.R201C	Substitution	Missense	48.6	Not detected	GNAS	821	Chr20:57484420 C>T	p.R201C	Substitution	Missense	43.3	Not detected	GNAS	4316	Chr20:57484420 C>T	p.R201C	Substitution	Missense	46.5	Not detected										
IPA01	KRAS	2125	Chr12:25398284 C>T	p.G12D	Substitution	Missense	13.7	SMAD4 (D)		1368						SMAD4	N/A																	
	TP53	331	Chr17:7577539 G>A	p.R248W	Substitution	Missense	17			42																								
		2993								KRAS	851	Chr12:2538028 G>A	p.T58I	Substitution	Missense			13.7																
		900								TP53	242	Chr17:7579313 G>A	p.T125M	Substitution	Missense			17.1																
		64								RNF43	228	Chr17:56437593 C>G	p.C290S	Substitution	Missense			27.2																
IPA02	SMAD4	245	Chr18:48604667 C>T	p.R497C	Substitution	Missense	27.2	SMAD4 (D)		72					Not	N/A																		
		218							RNF43	225	Chr17:56435612 C>T	p.V509M	Substitution	Missense			17.9																	
IPA03		83								191					Not detected	GNAS	272	Chr20:57484479 G>A	c.G1018A	Substitution	Splice variant	10.1	Not detected											
		2348							KRAS	2801	Chr12:25398285 C>G	p.G12R	Substitution	Missense										11.9										
	TGFB2	218	Chr3:30713408 G>A	p.E270K	Substitution	Missense	5.3		GNAS	456	Chr20:57484420 C>T	p.R201C	Substitution	Missense										5.8										
IPA04	KRAS	624	Chr12:25398284 C>T	p.G12D	Substitution	Missense	18.9	Not detected							N/A	KRAS	329	Chr12:25398284 C>T	p.G12D	Substitution	Missense	33.2	PIK3CA (D) SMAD4 (D)											
	ARID1A	136	Chr1:27057895 C>T	p.P535S	Substitution	Missense	9.2																											
	PIK3CA	796	Chr3:178936082 G>A	p.E542K	Substitution	Missense	9.3																											
IPA05	KRAS	953	Chr12:25398285 C>G	p.G12D	Substitution	Missense	20.9	N/A	KRAS	543	Chr12:25398284 C>T	p.G12D	Substitution	Missense	17.8	N/A	N/A																	
	SMAD4	265	Chr18:48586257 C>T	p.A309V	Substitution	Missense	14.9			301																								
IPA06	KRAS	2007	Chr12:25398284 C>T	p.G12D	Substitution	Missense	25.6	TGFB2 (D)	KRAS	942	Chr12:25398285 C>G	p.G12R	Substitution	Missense	16.6	Not detected	KRAS	131	Chr12:25398284 C>T	p.G12D	Substitution	Missense	23.5	Not detected										
		678							KRAS	1134	Chr12:25380275 T>A	p.Q61H	Substitution	Missense	32.9																			
		2856								470																								
	CDKN2A	260	Chr9:21971054 insC	p.A102fs	Insertion	Frameshift	16.7			146																								
IPA07	KRAS	2128	Chr12:25398285 C>G	p.G12D	Substitution	Missense	72.4	N/A	KRAS	2949	Chr12:25398284 C>A	p.G12V	Substitution	Missense	23.7	Not detected	GNAS	539	Chr12:25380275 C>A	p.Q61H	Substitution	Missense	17.2	RNF43 (D)										
		2288								1040																								
		1279								390																								
		668								GNAS	360	Chr20:57480490 C>T	p.C163Y	Substitution	Missense										5.5									
		197								CDKN2A	153	Chr9:21971026 insC	p.G11fs	Insertion	Frameshift										11.9									

Mutated genes were annotated using the Consensus Coding DNA Sequences (CCDS) and RefSeq adj-/dist-IPMN - adjacent/distant IPMN

Bold indicates shared mutation to either of the other neoplasms

N/A - Sample not available

SNV - Single nucleotide variation

CNV - Copy number variation - A= Amplification; D=Deletion

VAF - Variant allele frequency

