

Supplementary Table 1.

Sample	Gender	Tumour Stage	Tumour Grade	Tumour Pathology	Time to recurrence (months)	Follow up time (months) - see footnote	% clones altered in aCGH	Number of whole chromosome alterations detected by aCGH	Genomic position (GRCh37) of variation	Position of variant in transcript NM_001042749 (numbered with A of ATG as nucleotide 1)	Predicted effect of variant at primary amino acid sequence level	Effect (Splice mutations supported by RNA evidence unless indicated otherwise)	IHC	FGFR3	PIK3CA	RAS	TP53			
45	M	Ta	G2	TCC	26	40	9.50	1					ND	p.S249C	WT	WT				
94	M	T1	G3	TCC	3	17	12.77	1				+ & -	p.R248C	WT	WT	WT				
95	M	>T2	G2	TCC			14.67	1				ND	WT	WT	WT					
110	M	Ta	G3	TCC	23	153							ND	WT	WT	WT				
113	M	Ta	G3	TCC	12	18	13.49	4				+	WT	WT	WT	WT				
137	M	>T2	G3	TCC	33	126	64.50	3	X:123220428 C>T	c.3085 C>T	p.Q1029*	Nonsense	ND	WT	WT	WT	p.E271K			
140	F	T1	G3	TCC	6	127	14.04	3	X:123220417 delT	c.3074 delT	p.F1025fs	Frameshift	ND	WT	p.E542K	WT	WT			
169	F	>T2	G3	TCC	No recurrence	20							ND							
228	M	T1	G3	TCC	5	47	19.60	2				+	p.S249C	WT	WT	WT				
239	M	Ta	G1	TCC	No recurrence	121	0.00	0				+	WT	WT	KRAS p.G12R	WT				
243	M	T1	G3	TCC	No recurrence	7	14.61	3				+	WT	WT	WT	WT				
248	F	Ta	G2	TCC	No recurrence	66							ND							
264	M	Ta	G2	TCC	8	118	1.82	0				ND	WT	p.E545K	KRAS p.G12V	WT				
271	M	T1	G3	TCC		20.45	4	X:123200222 T>C	c.2201 T>C	p.L734P	Missense	+ & -	WT	WT	WT	p.K132N				
277	M	T1	G2	TCC	6	61						ND								
282	M	Ta	G2	TCC	39	84						ND	p.S249C	WT	WT	WT				
287	M	Ta	G2	TCC	9	118	17.23	0				+	p.S249C	WT	WT	WT				
291	F	>T2	G3	TCC	14	18	22.85	2				+	WT	WT	WT	WT				
299	F	Ta	G2	TCC	No recurrence	44	8.24	2				ND	p.S249C	WT	WT	WT				
305	M	T1	G3	TCC								ND								
312	M	Ta	G2	TCC	17	92	10.00	2				+	p.S249C	WT	WT	WT				
315	M	T1	G3	TCC	No recurrence	116	16.86	1	X:123179050 C>T	c.499 C>T	p.Q167*	Nonsense	ND	WT	p.D1017H	WT	p.R213W or p.R213X			
322	F	Ta	G1	TCC	24	47			X:123191812 delinsTG	c.1401 delinsTG	p.F468fs	Frameshift	ND	p.S249C	WT	WT				
329	M	>T2	G3	TCC	No recurrence	21						ND								
339	M	Ta	G2	TCC	5	25	8.39	2	X:123200233 C>T	c.2212 C>T	p.H738Y	Missense	ND	p.Y375C	WT	WT	WT			
344	F	T1	G3	TCC	No recurrence	104	20.34	3				ND	p.S249C	WT	WT	WT				
355	F	>T2	G3	TCC	14	15	51.15	3				+	WT	WT	WT	p.R280T				
356	F	Ta	G2	TCC	60	67						ND	p.S249C	p.E542K	WT					
358	F	Ta	G2	TCC	No recurrence	111	14.76	0				-	WT	WT	WT	WT				
359	F	Ta	G2	TCC		111	0.12	0	X:123171474 G>T	c.385+1 G>T	p.?	Splice (presumed)	+	p.S249C	WT	WT	WT			
360	M	>T2	G3	TCC	5	111						+	WT	WT	WT	WT				
364	F	T1	G3	TCC		26.92	3				-	WT	WT	p.E545K	KRAS p.G12S	p.E198X				
365	F	Tx	G2	TCC		25.88	2				+	WT	WT	WT	WT					
374	F	T1	G3	TCC		17.03	0				+	WT	WT	WT	WT					
385	F	T1	G2	TCC	8	107	7.38	0	X:123181275 C>T	c.739 C>T	p.Q247*	Nonsense	ND	p.S249C	WT	WT	WT			
393	M	T1	G3	TCC	11	63						ND	WT			p.E542K; p.E545K KRAS p.G12D				
397	M	Ta	G2	TCC	No recurrence	106	0.00	0	X:123220496_123220497 dupTG	c.3153_3154 dupTG	p.G1052fs	Frameshift	-	p.S249C	p.E542K; p.E545K KRAS p.G12D	WT				
406	F	Ta	G2	TCC	No recurrence	106	3.69	0				ND	p.S249C	WT	WT	WT				
411	M	T1	G3	TCC		71.61	2				ND	WT	WT	WT	WT					
417	F	>T2	G3	TCC		23.17	1	X:123197742_123197760 del19	c.1866_1884 del19	p.K622fs	Frameshift	-	WT	p.E542K	KRAS p.G12V	WT				
418	F	T1	G3	TCC	No recurrence	105	7.55	2				ND	WT	p.E545K	WT	WT				
428	M	Tx	G2	TCC	No recurrence	131						ND	WT	p.E545K	WT	WT				
433	M	>T2	G3	TCC	9	11	19.42	2				+	p.S249C; p.Y375C	WT	WT	WT				
438	F	>T2	G3	TCC	No recurrence	14	24.29	3				+	p.Y375C	WT	WT	p.H214R; p.R280K				
443	F	Ta	G2	TCC	No recurrence	9						ND	p.S249C	WT	WT					
445	F	Ta	G3	TCC	17	17						ND	p.S249C	WT	WT					
451	M	Ta	G2	TCC	No recurrence	53						ND								
454	M	Ta	G2	TCC	14	101	0.35	0	X:123195666_123195667 dupGT	c.1580_1581 dupGT	p.T528fs	Frameshift	+	p.G372C	p.E542K	WT	WT			
457	M	Ta	G2	TCC		12.97	2				+	p.S249C	p.M1043I	WT	WT					
461	M	T1	G3	TCC	8	104	9.19	2				+	p.S249C	WT	WT	WT				
466	M	>T2	G3	TCC								ND								
468	M	T1	G2	TCC	36	104	5.30	1				+	WT	WT	WT	WT				
469	F	Ta	G2	TCC								ND	WT	WT	WT	NRAS p.Q61R	WT			
482	F	Ta	G3	TCC	No recurrence	103	24.50	4				ND	p.S249C	WT	WT	WT				
487	M	Ta	G2	TCC								ND								
489	F	Ta	G3	TCC	No recurrence	103	0.00	0				+	WT	p.E545K	WT	p.E180K				
491	F	>T2	G3	TCC								ND	WT	WT		p.R273L; p.Q331X				
494	F	Ta	G2	TCC	No recurrence	103	0.32	0	X:123191758_123191762 del5	c.1347_1351 del5	p.R451fs	Frameshift	ND	p.S249C	WT	WT	WT			
498	F	>T2	G3	TCC	No recurrence	20	16.08	1				ND	WT	WT	WT	WT				
500	F	>T2	G3	TCC		12.37	3	X:123220382 C>T; X:123220428 C>T	c.3054-15 C>T; c.3085 C>T	p.(=); p.Q1029*	No effect; Nonsense	+	p.S249C	WT	WT					
504	F	>T2	G3	TCC		31.47	3				+	WT	WT	HRAS p.G12R	WT					
511	M	Ta	G3	TCC	5	103	18.07	1	X:123220440 C>T	c.3097 C>T	p.R1033*	Nonsense	-	p.S249C	WT	WT	WT			
513	M	>T2	G2	TCC	No recurrence	103	29.69	1				ND	WT	p.E542K	WT	WT				
518	M	Ta	G2	TCC	No recurrence	102	0.00	0				+	p.K652E	p.E542K	WT	WT				
519	M	T1	G3	TCC	No recurrence	8	32.54	1				ND	p.R248C	WT	WT	p.E298X				
525	M	T1	G3	TCC					X:123197834 C>G	c.1958 C>G	p.S653*	Nonsense	ND							
529	M	Tx	G2	TCC					14.52	1	X:123224554_123224557 dup4	c.3407_3410 dup4	p.S1137fs	Frameshift	ND	p.S249C	WT	WT	WT	
535	F	Ta	G2	TCC	8	58						ND	p.S249C	WT	WT					
536	M	Ta	G2	TCC	15	102	0.00	0	X:123200250 G>A	c.2229 G>A	p.W743*	Nonsense	-	p.S249C	p.E545K	WT	WT			
540	M	Ta	G2	TCC	5	102	15.01	2				+	p.S249C	WT	WT	WT				
554	M	T1	G2	TCC					9.25	3		+	p.S249C	WT	WT	WT				
559	M	>T2	G3	TCC	No recurrence	78						ND								
561	M	T1	G3	TCC	No recurrence	16	11.30	1				+	WT	p.H1047R	HRAS p.G13V	WT				
567	M	T1	G3	TCC	50	61	31.01	3				+	WT	WT	WT	WT				
571	F	T1	G3	TCC	6	36	10.69	3				+	p.S249C	WT	WT	WT				

572	M	T1	G3	TCC	No recurrence	100	19.08	3						+ p.S249C	WT	WT	p.R249S
575	F	Ta	G2	TCC	No recurrence	100	2.25	0					- p.R248C	p.E545K	WT	WT	
577	F	>T2	G3	TCC	No recurrence	14	24.50	1					+ WT	WT	WT	p.E180K	
578	M	Ta	G2	TCC	10	99	0.98	0	X:123224422_123224443 del22	c.3278-3_3296 del22	p.?	Splice	- p.Y375C	WT	WT	WT	
579	F	T1	G2	TCC	No recurrence	99	9.19	1					+ p.S249C	p.E545K	WT	WT	
582	F	>T2	Small cell carcinoma	Small cell carcinoma					X:123185066 C>G	c.1113 C>G	p.F371L	Missense	ND	WT	WT		
584	M	Ta	G3	TCC	No recurrence	99	0.00	0					ND	p.S249C	WT	WT	
588	F	>T2	G3	TCC	No recurrence	99	43.50	2					+ WT	WT	WT	WT	
589	M	T1	G3	TCC	No recurrence	99	16.48	1					+ WT	WT	WT	WT	
593	M	T1	G2	TCC	6	99	12.36	2					+ p.S249C	WT	WT	WT	
594	M	>T2	G3	TCC	No recurrence	21	63.54	4					ND	WT	WT	WT	
595	M	>T2	G3	TCC		71.06	6	X:123159695 C>G	c.50 C>G	p.S17*	Nonsense	ND	WT	WT	p.S90fs		
605	F	Ta	G2	TCC	No recurrence	124							ND	WT	p.E542K	KRAS p.Q61H	
610	F	>T2	G3	TCC									ND	WT	WT		
620	M	Ta	G2	TCC	No recurrence	23	5.49	1					ND	p.S249C	WT	WT	
621	M	T1	G3	TCC	36	65							ND	WT	WT		
623	M	>T2	G3	TCC									ND				
636	M	Ta	G3	TCC	No recurrence	97	21.04	2					ND	p.Y375C	p.E545K	WT	
643	F	Tx	G2	TCC	No recurrence	6	0.00	0	X:123220486 delT	c.3143 delT	p.L1048fs	Frameshift	ND	p.G372C	p.E542K	WT	
647	M	Tx	G2	TCC	6	54							ND				
653	M	>T2	G3	TCC		34.18	1						+ WT	WT	WT	p.M169X	
657	F	Ta	G2	TCC	No recurrence	96	14.35	2					ND	WT	p.O643R	WT	
658	F	Ta	G2	TCC	No recurrence	96	0.23	0					+ p.S249C	p.E542K	WT	WT	
659	M	>T2	G3	TCC	No recurrence	62							ND	WT	p.E545K	WT	
669	F	>T2	G3	TCC									ND				
670	M	>T2	G3	TCC				X:123211910 delT	c.2775+2 delT	p.?	Splice	ND					
672	F	Ta	G2	TCC	No recurrence	96	0.17	0					+ WT	WT	HRAS p.Q61R	WT	
675	M	Ta	G2	TCC	No recurrence	96	7.35	2					ND	p.R248C	WT	WT	
676	M	Ta	G2	TCC	9	53							ND				
677	M	>T2	G3	TCC	No recurrence	5	11.27	0					ND	WT	WT	WT	
680	M	Ta	G2	TCC	11	33							ND	p.S373C	WT	WT	
685	M	>T2	G3	TCC	No recurrence	49							ND				
695	F	Ta	G2	TCC	4	95	7.67	0					ND	WT	WT	WT	
701	M	>T2	G3	TCC	No recurrence	14	4.83	0					ND	WT	WT	p.R249S	
712	M	Ta	G2	TCC	22	47							ND	p.S249C	p.M1043I	WT	
717	F	Ta	G2	TCC		15.85	2	X:123185024_123185025 delCA	c.1071_1072 delCA	p.N357fs	Frameshift	ND	p.S249C	WT	WT		
718	F	Ta	G2	TCC	No recurrence	29	23.34	5					+ p.S249C	WT	WT		
724	M	Ta	G3	TCC	11	17	36.08	3					+ WT	WT	WT		
736	M	Ta	G3	TCC	No recurrence	10	6.30	1	X:123200022 C>G	c.2097-3 C>G	p.?	Splice	ND	p.Y375C	WT	HRAS p.G12S	
741	F	>T2	G3	TCC		58.50	6						+ WT	WT	WT	p.R273H	
778	M	>T2	G3	TCC	8	93	15.30	1					+ p.S373C	WT	WT		
787	M	T1	G2	TCC									ND	WT	WT	KRAS p.G12V	
798	M	T1	G3	TCC	No recurrence	92	50.32	5					ND	WT	WT	p.Y163C	
806	M	T1	G3	TCC		25.68	3						+ WT	WT	WT		
811	F	Ta	G2	TCC	10	92	0.03	0	X:123184997 dupT	c.1044 dupT	p.T349fs	Frameshift	ND	p.S249C	p.H1047R	WT	
818	M	>T2	G3	TCC	No recurrence	8	27.81	1					+ WT	WT	WT		
826	M	>T2	G3	TCC	No recurrence	12	14.76	1					+ WT	WT	WT		
836	F	Ta	G2	TCC	10	26							ND				
837	M	Ta	G1	TCC	No recurrence	91	2.80	0					+ p.S249C	WT	WT		
844	F	Ta	G2	TCC	No recurrence	91	3.95	1					+ p.S249C	p.E542K	WT		
848	M	T1	G3	TCC	No recurrence	6	55.18	5					+ WT	WT	WT	p.E221X	
856	M	>T2	G3	TCC									ND				
860	M	Tx	G2	TCC	34	91	4.87	1	X:123205173 G>A	c.2533 G>A	p.?	Splice and missense	ND	p.S249C	p.E545K	WT	
865	F	Ta	G2	TCC	10	110		X:123195101 dupG	c.1444 dupG	p.D482fs	Frameshift	ND	p.S249C	p.E545K	WT		
866	M	T1	G3	TCC	No recurrence	91	3.83	1					+ & - p.K652N	WT	WT		
867	M	Ta	G3	TCC									ND				
868	M	Ta	G2	TCC	No recurrence	91	0.12	0	X:123181345 dupA	c.809 dupA	p.R271fs	Frameshift	ND	p.S249C	WT	WT	
869	F	T1	G2	TCC	No recurrence	47			X:123195677 delC	c.1591 delC	p.Q531fs	Frameshift	ND	p.S249C	p.E545K	KRAS p.G12A	
884	M	T1	G3	TCC	No recurrence	90	24.64	2					+ WT	WT	WT	p.R273H	
893	M	>T2	G3	TCC		43.44	1						ND	WT	WT	p.C275Y	
894	F	Ta	G1	TCC	27	90	0.09	0					ND	WT	WT	WT	
924	F	Ta	G2	TCC	No recurrence	34	6.20	0					+ WT	WT	WT	HRAS p.Q61L	
928	M	>T2	G3	TCC	No recurrence	13							ND			WT	
929	F	T1	G3	TCC									ND				
930	M	T1	G3	TCC	5	89	68.73	8					+ WT	WT	WT	p.K139E	
933	F	Ta	G2	TCC	11	13	1.27	0					+ p.S249C	p.E542K	WT		
934	F	Tx	G2	TCC	9	89	7.78	2					+ & - p.Y375C	p.E545K	WT		
944	M	T1	G3	TCC	3	3	45.80	6					+ WT	WT	WT	p.R273C	
945	F	Ta	G3	TCC	No recurrence	57			X:123200277_123200302 del26	c.2256_2265+16 del26	p.?	Splice	ND	p.Y375C	p.H1047R	WT	
946	F	Ta	G2	TCC	9	88	14.67	0					ND	WT	WT	WT	
949	M	>T2	G3	TCC									ND				
957	M	>T2	G3	TCC									ND				
960	F	Ta	G2	TCC	4	28							ND	p.Y375C	WT	WT	
961	M	Ta	G2	TCC	9	87	0.06	0	X:123199725 G>T	c.2026-1 G>T	p.?	Splice	- p.S373C	WT	WT		
963	F	Ta	G2	TCC	24	87	1.53	0					+ p.S249C	WT	WT		
966	M	Ta	G2	TCC	No recurrence	87	21.21	3					+ WT	WT	WT		
968	M	>T2	G3	TCC									ND				
969	M	T1	G3	TCC			8.52	0					+ p.Y375C	WT	WT		
979	M	T1	G3	TCC	5	86	21.09	4					+ & - p.S249C	WT	WT		
980	F	Tx	G2	TCC	9	86	8.24	1	X:123200228_123200232 del5	c.2207_2211 del5	p.C736fs	Frameshift	+ & - p.Y375C	WT	WT		
983	M	T1	G2	TCC	No recurrence	29	1.12	0	X:123181311 C>T	c.775 C>T	p.R259*	Nonsense	- p.Y375C	p.H1047R	WT		
985	M	Ta	G2	TCC	No recurrence	105							ND	p.G372C	p.H1047L	WT	

987	M	T1	G2	TCC				X:123195067 A>G	c.1417-7 A>G	p.?	Splice	ND	WT	WT	KRAS p.G12V	WT	
989	M	Ta	G3	TCC	13	84	7.80	0	X:123215342 A>G	c.288A>G	p.Q963R	Missense	+	WT	WT	WT	WT
990	F	Ta	G2	TCC	5	98	0.00	0	X:123200229 123200240 del12	c.2208_2219 del12	p.C736*	Nonsense	ND	p.Y375C	p.E542K	WT	WT
991	F	Tx	G2	TCC	No recurrence	112	18.90	3	X:123179176 123179193 del18	c.625_642 del18	p.D209_A214del	In-frame deletion	ND	WT	p.E542K	KRAS p.G12C	
994	F	>T2	G3	TCC	No recurrence	20							ND	WT	p.E542K	WT	
995	M	Tx	G2	TCC	24	91							ND	p.S249C	p.H1047R	WT	
996	F	Ta	G2	TCC	38	111							ND	WT	WT	WT	p.G108R
1005	M	Ta	G2	TCC	9	111							ND	p.S249C	p.E542K	WT	WT
1006	M	Ta	G2	TCC	6	30	7.87	0					ND	p.S249C	WT	WT	p.R175H
1009	M	Tx	G3	TCC	No recurrence	6	44.13	4					ND	WT	WT	WT	
1010	M	T1	G3	TCC	No recurrence	84	6.53	0					+	WT	WT	HRAS p.R68P	WT
1014	F	>T2	G1	SCC									ND	p.S249C	WT	WT	
1017	M	Ta	G2	TCC	72	102	1.20	0	X:123197045 G>T	c.1811 G>T	p.R604L	Missense	ND	p.S249C	WT	WT	
1021	M	T1	G3	TCC	No recurrence	83	14.50	1					ND	WT	p.E545K	WT	p.Q331X; p.D259V
1025	F	T1	G2	TCC	4	83	10.50	1	X:123179156 C>A	c.605 C>A	p.S202*	Nonsense	ND	WT	WT	WT	
1028	M	T1	G3	TCC	10	82	7.54	2	X:123197049 A>C; X:123210303 C>T	c.1815A>C; c.2655 C>T	p.L605F; p.(=)	Missense; Synonymous	+	WT	WT	WT	
1030	M	Ta	G2	TCC	7	9	20.09	3					ND	WT	WT	WT	
1033	M	T1	G3	TCC	4	22	24.34	2					+	WT	WT	WT	p.I95T
1038	M	Ta	G2	TCC	No recurrence	61	0.00	0					ND	p.S249C	p.E542K	WT	
1040	F	>T2	G3	SCC									ND	WT	WT	WT	
1043	M	Ta	G3	TCC	No recurrence	81	31.21	6					ND	p.S249C	WT	WT	WT
1044	M	Ta	G2	TCC	3	81	2.97	0					+	WT	WT	WT	WT
1046	M	Ta	G2	TCC	17	81	24.01	2	X:123176411 A>G	c.386-8 A>G	p.?	Splice (presumed)	+ & weak	p.S249C	WT	WT	
1049	F	>T2	G3	TCC									ND	WT	WT	WT	p.V205C
1052	F	T1	G3	TCC	7	12	12.77	2	X:123164943 G>T	c.256 G>T	p.E86*	Nonsense	-	p.Y375C	p.E545K	WT	WT
1053	F	Ta	G2	TCC	No recurrence	1	0.00	0	X:123202456 C>T	c.2308 C>T	p.Q770*	Nonsense	ND	p.Y375C	WT	WT	
1058	M	Ta	G2	TCC	No recurrence	99	0.00	0					ND	WT	WT	WT	
1063	M	Ta	G2	TCC	7	98	4.60	0	X:123195162 delT	c.1505 del T	p.L502fs	Frameshift	ND	p.S373C	WT	WT	
1066	M	>T2	G3	SCC									ND	WT	WT	WT	
1067	M	Ta	G2	TCC	9	105							ND	WT	WT	WT	HRAS p.Q61R
1072	M	Ta	G3	TCC	8	24	20.11	1	X:123195215 T>A	c.1534+24 T>A	p.=	No effect	+ &	WT	WT	WT	WT
1073	M	Ta	G3	TCC	7	15	23.22	5	X:123215302 G>A	c.2848 G>A	p.E950K	Missense	ND	WT	WT	WT	WT
1079	F	Ta	G3	TCC	No recurrence	78	12.72	1	X:123210190 C>T	c.2542 C>T	p.Q848*	Nonsense	ND	p.R248C	p.E545K	WT	WT
1081	F	T1	G3	TCC	No recurrence	78	0.00	0	X:123224511 dupA	c.3364 dupA	p.T1122fs	Frameshift	ND	p.A393E	p.H1047R	WT	p.V234H
1082	F	Ta	G3	TCC	No recurrence	78	17.72	3					+	WT	WT	WT	
1083	M	Ta	G2	TCC	No recurrence	4			X:123215276 C>G	c.2822 C>G	p.S941*	Nonsense	ND	p.S249C	WT	WT	WT
1088	M	Ta	G2	TCC	No recurrence	44							ND	WT	WT	WT	
1090	F	Ta	G2	TCC	4	39							ND	WT	WT	WT	
1091	M	Ta	G2	TCC	3	22	15.00	1					ND	p.S249C	p.E545K	WT	
1094	F	T1	G3	TCC	No recurrence	77	13.72	2	X:123227933 C>G	c.3644 C>G	p.S1215*	Nonsense	+ &	p.S249C	WT	WT	WT
1096	M	Ta	G2	TCC	No recurrence	16	4.89	1					ND	p.Y375C	WT	WT	
1103	M	Ta	G3	TCC	No recurrence	76	0.23	0					+	WT	p.E542K; p.E545K	WT	WT
1109	M	>T2	G3	TCC	51	60	21.32	0					+	WT	WT	KRAS p.G12D	WT
1111	M	Ta	G3	TCC	No recurrence	98			X:123217323 C>T; X:123220428 C>T	c.2977 C>T; c.3085 C>T	p.P9935; p.Q1029*	Missense; Nonsense	ND	p.Y375C	p.E545K	WT	
1116	F	Ta	G2	TCC	48	87	0.00	0	X:123191785 delC	c.1374 delC	p.N459fs	Frameshift	ND	p.S249C	WT	WT	
1117	M	Ta	G2	TCC	7	25	0.00	0					ND	WT	p.E542K	HRAS p.Q61R	
1118	M	T1	G3	TCC	12	75	12.31	1					+	p.R248C	p.E545K	WT	WT
1126	M	>T2	G3	TCC	No recurrence	8	42.92	0					+	WT	WT	WT	p.E68D; p.A76V; p.R337C
1129	M	T1	G3	TCC	No recurrence	74	14.47	0					+	WT	WT	NRAS p.Q61L	WT
1130	M	Ta	G3	TCC					X:123191812 delinsTG	c.1401 delinsTG	p.F468fs	Frameshift	ND	p.S249C	p.E545K	WT	
1135	M	Ta	G3	TCC									ND	WT	p.E545K	WT	
1138	M	T1	G3	TCC	No recurrence	73	16.74	0					+	WT	WT	WT	WT
1142	M	Ta	G2	TCC	18	92	0.00	0	X:123210178 123210198 del21	c.2534-4_2550 del21	p.?	Splice	ND	p.S249C	p.E545K	WT	
1144	M	Ta	G2	TCC	No recurrence	92	0.00	0					ND	WT	WT	HRAS p.Q61R	
1145	M	T1	G3	TCC	No recurrence	73	28.74	1	X:123171455 C>T	c.367 C>T	p.Q123*	Nonsense	-	WT	WT	WT	WT
1148	F	>T2	G3	TCC	No recurrence	24	24.68	5					+	WT	WT	p.E271K; p.N310fs	
1150	M	Ta	G2	TCC									ND	WT	WT		
1152	M	>T2	G3	TCC									ND	WT	WT		
1153	M	T1	G3	TCC	3	19	8.75	1					+	p.R248C	WT	WT	Splicing error (C.672+1G>T)
1157	M	T1	G3	TCC					X:123229288 A>G	c.3772 A>G	p.M1258V	Missense	ND	p.S249C	WT	WT	
1161	M	T1	G3	TCC	No recurrence	8	11.39	2		c.1196+4 A>G	p.?	Splice	ND	p.S249C	p.E545K	WT	WT
1165	F	>T2	G2	SCC									ND	WT	WT		
1167	F	Ta	G2	TCC	No recurrence	84	0.00	0	X:123176440 123176447 del8	c.407_414 del8	p.F136fs	Frameshift	ND	p.G372C	WT	WT	
1172	F	>T2	G3	TCC					X:123229288 A>G	c.3772 A>G	p.M1258V	Missense	ND	p.S249C	p.H1047L	WT	
1175	M	Ta	G2	TCC	16	16	11.40	1	X:123185248 A>G	c.1196+4 A>G	p.?	Splice	ND	p.G372C	WT	WT	
1176	F	>T2	G3	TCC									ND	WT	WT	HRAS p.G12S	
1177	M	Ta	G2	TCC	3	90	0.00	0					ND	WT	WT	WT	
1180	F	>T2	G3	TCC	34	35	0.00	0	X:123202427 delinsCT	c.2279 delinsCT	p.R760fs	Frameshift	ND	p.Y375C	p.H1047L	WT	
1185	F	Tx	G2	TCC									ND	WT	WT	WT	
1202	M	>T2	G3	SCC									ND	WT	WT	WT	
1207	M	>T2	G3	SCC									ND	WT	WT	WT	
1210	F	T1	G3	TCC	8	70	20.20	2	X:123200024 G>A	c.2097-1 G>A	p.?	Splice	-	WT	WT	WT	WT
1212	M	T1	G3	TCC	No recurrence	10	29.20	3					+	WT	WT	p.T140-Q144Del; p.E224K; p.C238Y	
1213	F	Ta	G2	TCC					4.90	1			ND	p.S249C	p.H1047L	WT	
1214	F	Ta	G2	TCC	4	89	0.30	0	X:123200023 A>G	c.2097-2 A>G	p.?	Splice (presumed)	ND	p.S249C	WT	WT	
1220	M	T1	G2	TCC					1.01	1			+	p.S249C	WT	WT	WT
1229	M	T1	G3	TCC	6	12	15.10	0					+	p.S249C	WT	WT	WT
1230	M	T1	G3	TCC	11	68	15.74	2					+	p.S249C	WT	WT	WT
1231	M	Ta	G2	TCC	No recurrence	24	2.00	0	X:123176495 G>C	c.462 G>C	p.?	Splice	ND	p.R248C	p.H1047R	WT	
1234	M	T1	G3	TCC	53	68	24.60	1					+	WT	WT	WT	p.M246I
1238	M	Ta	G2	TCC	No recurrence	87	0.00	0					ND	p.S249C	p.E545K	WT	
1240	M	T1	G3	TCC	No recurrence	5	10.07	2					ND	WT	WT	KRAS p.G12R	WT

1248	F	>T2	G3	TCC	No recurrence	26	70.57	1						+ WT	WT	WT	p.E258G
1264	F	T1	G3	TCC	No recurrence	65	27.36	3					+ WT	WT	WT	WT	
1267	M	>T2	G3	TCC	16	65	16.05	3					+ p.S249C	p.E45K	WT	WT	
1272	M	Ta	G2	TCC	7	84	3.00	0					ND p.S249C	WT	WT		
1273	F	Ta	G2	TCC	12	84	0.00	0	X:123215379 G>A	c.2924+1 G>A	p.?	Splice	ND p.S249C	WT	WT		
1281	F	>T2	G3	TCC									ND				
1283	M	Ta	G2	TCC	16	83	5.70	1					ND p.S249C	WT	WT		
1285	M	Ta	G2	TCC	No recurrence	76	3.20	1					ND p.S249C	p.E45K	WT		
1294	M	Ta	G2	TCC	3	49	6.50	1	X:123220406 C>G	c.3063 C>G	p.Y1021*	Nonsense	ND p.S249C	WT	WT		
1298	M	Ta	G3	TCC	No recurrence	63	3.51	0	X:123196806 G>T	c.1693 G>T	p.E565*	Nonsense	+ & - p.S249C	p.E45K	WT	WT	
1300	M	T1	G3	TCC	3	15	35.67	7					+ WT	p.E45K	WT	p.L130P; p.D228H	
1301	M	>T2	G3	TCC	No recurrence	2	38.41	4					+ WT	WT	WT	p.R273C	
1305	M	Ta	G2	TCC	No recurrence	39	4.00	1					ND p.S249C	WT	WT		
1307	M	Ta	G2	TCC	No recurrence	45	7.30	1					ND p.S249C	WT	WT		
1308	F	Tx	G2	TCC	11	89	5.60	0					ND p.K652E	p.E45K	WT		
1310	M	T1	G3	TCC	43	62	25.52	1					+ WT	WT	WT	p.E258X	
1311	M	T1	G3	TCC	12	16	6.21	1					+ p.G372C	p.E545Q	WT	WT	
1313	M	Ta	G2	TCC	4	27	8.60	1					ND p.S249C	WT	WT		
1315	M	T1	G3	TCC	No recurrence	62	0.14	0					+ & - p.S249C	p.E45K	WT	p.R280T	
1317	M	>T2	G3	TCC	No recurrence	6	2.99	0					+ WT	WT	WT	p.K139N	
1320	M	T1	G3	TCC		50.81	6						+ WT	WT	WT	p.Y234H	
1321	F	>T2	G3	TCC	No recurrence	12	7.28	1					+ p.S249C	p.H1047R	WT	p.R280K	
1322	M	>T2	G3	TCC	No recurrence	5	25.03	0					+ WT	WT	WT		
1324	M	T1	G3	TCC	2	61	12.11	1	X:123224595 C>G	c.3448 C>G	p.Q1150E	Missense	+ p.S249C	WT	WT	p.S90F; p.Q192X; p.G244V; p.E388Q	
1325	M	T1	G3	TCC		28.31	5						+ & - p.S249C	WT	WT	p.Y234H	
1326	M	Ta	G2	TCC	No recurrence	86	7.50	2					ND p.S249C	WT	WT		
1332	M	Ta	G2	TCC	No recurrence	86	6.10	1	X:123182867 C>T	c.832 C>T	p.Q278*	Nonsense	ND p.S249C	WT	WT		
1335	F	Ta	G2	TCC	22	86	8.20	1	X:123220533_123220534 delinsT	c.3190_3191 delinsT	p.S1065fs	Frameshift	ND p.S249C	p.E42K	WT		
1338	F	>T2	G3	TCC	No recurrence	10	29.37	2	X:123197864 A>G	c.1988 A>G	p.D663G	Missense	+ & - p.Y375C	p.E45K	WT	p.Q192X	
1342	M	T1	G2	TCC	8	59	16.11	2					+ & - p.S249C	WT	WT	WT	
1345	M	T1	G2	TCC	No recurrence	59	12.92	2	X:123195581_123195652 del72	c.1535_40_1566 del72	p.?	Splice	- p.S249C	WT	WT	WT	
1349	M	T1	G3	TCC	No recurrence	39	20.89	3					+ WT	p.E45K	KRAS p.G12V	WT	
1350	F	T1	G3	TCC									ND				
1352	M	>T2	G2	TCC	No recurrence	58	36.97	3					ND WT	WT	WT	WT	
1361	M	Ta	G2	TCC	34	76	0.50	0					ND p.S249C	p.E45K	WT		
1366	M	>T2	G3	TCC			47.12	4					+ WT	WT	WT	p.R248Q	
1370	M	Ta	G2	TCC	No recurrence	82	17.20	3					ND p.S249C	WT	WT		
1380	M	Ta	G2	TCC	9	18	31.40	4					ND p.S249C	WT	WT		
1383	F	Ta	G2	TCC	5	40	8.30	2	X:123184160_123184181 delinsCATCTTAC	c.1017+1_1017+22 delinsCATCTTAC	p.?	Splice	ND p.Y375C	p.E45K	WT		
1385	F	Ta	G2	TCC	No recurrence	75	0.00	0					ND WT	WT	WT		
1387	F	Ta	G2	TCC	23	82	5.10	0					ND p.R248C	WT	WT		
1413	M	>T2	G3	TCC									ND				
1415	F	Ta	G2	TCC	No recurrence	59	0.00	0	X:123195635 C>T	c.1549 C>T	p.Q517*	Nonsense	ND p.S249C	p.H1047L	WT		
1417	M	Ta	G2	TCC	32	72	0.00	0					ND WT	p.E45K	HRAS p.G13R		
1427	F	>T2	G3	TCC									ND				
1434	M	Ta	G2	TCC	No recurrence	12	0.70	0	X:123220476 C>T	c.3133 C>T	p.R1045*	Nonsense	ND p.R248C	WT	WT		
1436	M	Ta	G2	TCC	No recurrence	76			X:123171455 C>T	c.367 C>T	p.Q123*	Nonsense	ND p.S249C	WT	WT		
1439	M	Ta	G3	TCC	No recurrence	75							ND WT	WT	WT		
1440	M	Ta	G2	TCC	No recurrence	61	0.00	0					ND p.K652E	p.E42K	WT		
1444	M	Ta	G2	TCC	No recurrence	37	14.80	1					ND p.G372C	WT	WT		
1453	M	Ta	G2	TCC	18	54	10.70	1					ND p.Y375C	p.E42K	WT		
1465	M	Ta	G2	TCC	7	74	12.20	2	X:123197784 C>A	c.1908 C>A	p.Y636*	Nonsense	ND p.S249C	WT	WT		
1467	M	Ta	G2	TCC	14	62	4.90	1					ND p.S249C	WT	WT		
1473	F	Ta	G2	TCC	No recurrence	74	0.30	0	X:123185131 C>T	c.1117_34 C>T	p.(=)	No effect	ND p.S249C	p.E45K	WT		
1474	F	Ta	G2	TCC	56	67	0.00	0	X:123184989 A>C; X:123211840_123211843 del4	c.1036 A>C; c.2707_2710 del4	p.K346Q; p.T903*	Missense; Nonsense	ND p.S249C	WT	WT		
1487	M	>T2	G3	TCC									ND				
1516	M	>T2	Small cell carcinoma	Small cell carcinoma									ND				
1529	M	>T2	G3	TCC				X:123199756 C>T	c.2056 C>T	p.Q686*	Nonsense	ND					
1552	F	>T2	G3	SCC									ND				
1560	M	>T2	G3	TCC									ND				
1576	F	>T2	G3	TCC									ND				
1595	M	>T2	G3	TCC									ND				
1598	M	>T2	G3	TCC									ND				
1602	F	>T2	G3	TCC									ND				
1628	F	>T2	G3	TCC									ND				
1636	M	Ta	G2	TCC	15	58	20.60	4					ND p.S249C	p.E542K	WT		
1673	M	>T2	G3	TCC				X:123191765_123191798 del34	c.1354_1387 del34	p.G452fs	Frameshift	ND					
1696	M	>T2	G3	TCC									ND				

Array CGH was carried out using BAC arrays as described in Hurst et al Clinical Cancer Research 18: 5865-5877, 2012  
 Fraction of genome altered was classified as follows: A=<1.0% clones; B=1.0-<10% clones; C=10-<30% clones; D=>30% clones altered