

Supplementary Table 5. The altered known cancer pathways in synchronous cancers. Number refers to the number of genes with a nonsynonymous mutation related to each pathway. The intensity of the color red reflects the number of genes mutated within each pathway in the tumor. Shared pathways (and %) column refers to the number of shared mutated pathways within the tumor pair.

	ATM	p53	Wnt/ β -catenin	ErbB	PTEN	PI3K/AKT	ERK/MAPK	TGF- β	shared pathways	%
c110-1	2	1	1			1	1		5/8	63 %
c110-2	1	1	2			1	1	2		
c117-1	2	4	2	4	4	4	4	2	7/8	88 %
c117-2	1	2	2	2	2	2	2			
c440-1		1	2					1	3/8	38 %
c440-2	13	12	19	9	9	9	13	7		
s75-1	2	3	3	5	4	5	8	2	7/8	88 %
s75-2		1	3	2	4	3	3	2		
s387-1	1	1	2	2	2	3	2	2	5/8	63 %
s387-2	1	1	1		1	1				
s404-1	1		1	2	2	1	2	3	7/8	88 %
s404-2	1	2	4	1	2	2	3	1		
s483-1	7	3	6	2	6	4	6	5	8/8	100 %
s483-2	10	7	14	6	9	11	14	12		
s882-1	1	1	2		1	2			5/8	63 %
s882-2	3	3	3	2	2	2	3	1		
s894-1	1	2	2	3	4	2	4	1	1/8	13 %
s894-2								1		
s934-1	1		2	1	3	3	2	1	4/8	50 %
s934-2	1	3	5		1	2				
s956-1	1	2	5	2	3	3	3	1	7/8	88 %
s956-2		2	1	3	4	4	2	2		
s1036-1		2	2	2	1	1	1	1	3/8	38 %
s1036-2			3	2	1					
s1268-1	2	2	1			2	1		5/8	63 %
s1268-2	1	2	3	3	1	2	3	1		
s1283-1	8	11	14	9	6	7	8	3	8/8	100 %
s1283-2	2	1	2	1	3	2	1	2		
sync_1-1	2	1	3	2	3	4	3	1	8/8	100 %
sync_1-2	3	2	4	3	1	2	3	2		
sync_2-1	2	1	3	3	2	2	2	3	8/8	100 %
sync_2-2	2	1	5	1	1	5	2	2		
sync_3-1	2	1	3			1	1	1	4/8	50 %
sync_3-2				1	2	1	1	2		
sync_4-1	11	16	23	19	19	16	21	15	8/8	100 %
sync_4-2	11	11	13	11	14	13	17	7		
sync_6-1	1	2	2	4	3	3	3	1	8/8	100 %
sync_6-2	1	1	3	1	1	2	1	1		
sync_7-1			4	1	1	1	1	1	6/8	75 %
sync_7-2	2	2	3	1	1	2	1	1		
sync_9-1		1	1						2/8	25 %
sync_9-2	2	4	2	1	1	2	1			
sync_10-1	1	1	3	2	2	3	2	3	7/8	88 %
sync_10-2	2	1	3	1	2	2	1			
sync_11-1	8	14	18	6	9	7	12	9	5/8	63 %
sync_11-2	1	5	10	10	6	4	10	8		
sync_11-3		2	4	1		1		1		