

## Transcriptional activation of Cyclooxygenase 2 by tumour suppressor p53 requires Nuclear Factor-kappaB.

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Supplementary data:

### Cox-2 immunostaining and TP53 mutation status in oesophageal ADC and SCC

Tumour		Cox-2		TP53				
ID number	Histology	Cox2 %	Cox2 Intensity	Codon	Base change	wild-type AA	mutant AA	Status
1	ADC	0	0	0	G to C	na	na	splice
2	ADC	0	0	38	C to T	Gln	STOP	nonsense
3	ADC	<10	1	135	G to T	Cys	Phe	missense
4	ADC	>50	3	135	G to T	Cys	Phe	missense
5	ADC	10-20	3	144	C to T	Gln	STOP	nonsense
6	ADC	10-20	1	153	C to T	Pro	Leu	missense
7	ADC	0	0	157	G to T	Val	Phe	missense
8	ADC	0	0	159	C to T	Ala	Val	missense
9	ADC	0	0	163	A to G	Tyr	Cys	missense
10	ADC	>10	3	175	G to A	Arg	His	missense
11	ADC	<10	1	175	G to A	Arg	His	missense
12	ADC	0	0	175	G to A	Arg	His	missense
13	ADC	0	0	175	G to A	Arg	His	missense
14	ADC	0	0	193	C to T	His	Tyr	missense
15	ADC	20-50	3	213	G to A	Arg	Gln	missense
16	ADC	0	0	213	C to T	Arg	STOP	nonsense
17	ADC	0	0	213	C to T	Arg	STOP	nonsense
18	ADC	0	0	220	A to G	Tyr	Cys	missense
19	ADC	>50	3	232	T to A	Ile	Asn	missense
20	ADC	0	0	234	C to A	Tyr	STOP	nonsense
21	ADC	0	3	237	G to A	Met	Ile	missense
22	ADC	10-20	2	245	G to A	Gly	Ser	missense
23	ADC	0	0	248	G to A	Arg	Gln	missense
24	ADC	10-20	2	255	A to G	Ile	Val	missense
25	ADC	10-20	2	273	C to T	Arg	Cys	missense
26	ADC	>50	0	279	G to A	Gly	Gly	silent
27	ADC	0	0	282	C to T	Arg	Trp	missense
28	ADC	10-20	1	282	C to T	Arg	Trp	missense
29	ADC	0	0	284	C to T	Thr	Ile	missense
30	ADC	>50	3					wild-type
31	ADC	>50	3					wild-type
32	ADC	20-50	3					wild-type

33	ADC	20-50	1					wild-type
34	ADC	20-50	2					wild-type
35	ADC	10-20	2					wild-type
36	ADC	20-50	2					wild-type
37	ADC	>50	3					wild-type
38	ADC	>50	3					wild-type
39	ADC	>50	3					wild-type
40	ADC	<10	1					wild-type
41	ADC	20-50	0					wild-type
42	ADC	20_50	0					wild-type
43	ADC	0	0					wild-type
44	ADC	10-20	1					wild-type
45	ADC	>50	3					wild-type
46	ADC	20-50	2					wild-type
47	ADC	<10	1					wild-type
48	ADC	>50	3					wild-type
49	ADC	20-50	2					wild-type
50	ADC	0	0					wild-type
51	ADC	>50	0					wild-type
52	ADC	0	0					wild-type
53	ADC	10-20	1					wild-type
54	ADC	>50	3					wild-type
55	ADC	>50	3					wild-type
56	ADC	>50	3					wild-type
57	ADC	20-50	2					wild-type
58	ADC	>50	0					wild-type
59	ADC	0	0					wild-type
60	ADC	<10	1					wild-type
61	ADC	20-50	3					wild-type

Tumour		Cox-2		TP53				
ID number	Histology	Cox2 %	Cox2 Intensity	Codon	Base change	wild-type AA	mutant AA	Status
62	SCC	0	0	0	G to A	na	na	splice
63	SCC	<10	1	47	G to T	Pro	Leu	missense
64	SCC	0	0	127	C to T	Ser	Phe	missense
65	SCC	0	0	127	T to C	Ser	Pro	missense
66	SCC	<10	1	129	C to T	Ala	Ala	silent
67	SCC	0	0	132	A to T	Lys	STOP	nonsense
68	SCC	10-20	2	135	G to T	Cys	Phe	missense
69	SCC	0	0	135	G to A	Cys	Tyr	missense
70	SCC	<10	1	138	C to T	Ala	Val	missense
71	SCC	0	0	138	C to T	Ala	Val	missense
72	SCC	0	0	151	C to T	Pro	Ser	missense
73	SCC	10-20	1	154	-1	Gly	na	Frameshift
74	SCC	0	0	176	G to T	Cys	Phe	missense
75	SCC	0	0	182	+2	Cys	na	Frameshift

76	SCC	<10	1	209	-2	Arg	na	Frameshift
77	SCC	0	0	220	A to G	Tyr	Cys	missense
78	SCC	0	0	220	T to G	Tyr	STOP	nonsense
79	SCC	0	0	237	G to T	Met	Ile	wild-type
80	SCC	0	0	238	G to T	Cys	Phe	missense
81	SCC	10-20	2	242	G to A	Cys	Tyr	missense
82	SCC	<10	2	245	G to A	Gly	Ser	missense
83	SCC	20-50	2	248	G to A	Arg	Gln	missense
84	SCC	20-50	3	254	T to C	Ile	Thr	missense
85	SCC	<10	1	257	G to A	Leu	Leu	silent
86	SCC	0	0	258	G to A	Glu	Lys	missense
87	SCC	0	0	264	T to C	Leu	Pro	missense
88	SCC	10-20	1	265	G to A	Leu	Leu	silent
89	SCC	0	0	272	G to A	Val	Met	missense
90	SCC	10-20	2	272	G to A	Val	Met	missense
91	SCC	0	0	272	G to A	Val	Met	missense
92	SCC	0	0	273	C to T	Arg	Cys	missense
93	SCC	<10	1	273	C to T	Arg	Cys	missense
94	SCC	0	0	273	C to T	Arg	Cys	missense
95	SCC	0	0	279	G to A	Gly	Arg	missense
96	SCC	0	0	294	G to T	Glu	STOP	nonsense
97	SCC	0	0	301	C to T	Pro	Leu	missense
98	SCC	<10	1	305	G to T	Lys	Asn	missense
99	SCC	10-20	1					wild-type
100	SCC	0	0					wild-type
101	SCC	20-50	3					wild-type
102	SCC	20-50	3					wild-type
103	SCC	<10	1					wild-type
104	SCC	<10	1					wild-type
105	SCC	10-20	2					wild-type
106	SCC	10-20	2					wild-type
107	SCC	20-50	3					wild-type
108	SCC	<10	1					wild-type
109	SCC	20-50	2					wild-type
110	SCC	0	0					wild-type
111	SCC	0	0					wild-type
112	SCC	0	0					wild-type
113	SCC	20-50	3					wild-type
114	SCC	10-20	2					wild-type
115	SCC	>50	3					wild-type
116	SCC	0	0					wild-type
117	SCC	>50	3					wild-type
118	SCC	0	0					wild-type
119	SCC	0	0					wild-type
120	SCC	10-20	2					wild-type
121	SCC	0	0					wild-type
122	SCC	<10	1					wild-type
123	SCC	<10	1					wild-type
124	SCC	<10	1					wild-type
125	SCC	0	0					wild-type

126	SCC	<10	1					wild-type
127	SCC	0	0					wild-type
128	SCC	0	0					wild-type
129	SCC	0	0					wild-type
130	SCC	10-20	1					wild-type
131	SCC	0	0					wild-type
132	SCC	>50	2					wild-type
133	SCC	0	0					wild-type
134	SCC	0	0					wild-type
135	SCC	0	0					wild-type
136	SCC	0	0					wild-type
137	SCC	10-20	2					wild-type
138	SCC	0	0					wild-type
139	SCC	0	0					wild-type
140	SCC	10-20	1					wild-type
141	SCC	0	0					wild-type