

## S2 Fig

<b><i>fanca</i></b>		
WT	TGGCGCGGCAGGCGGCTCTCGAGGGCCCCAGCG//TCCAGTCC	(1205-1248)
Δ34 (hg40)	TGGCGCG-----//-----TCC	
Δ2 (hg41)	TGGCGCGGCAGGCGGCTC--GAGGGCCCCAGCG	
<b><i>fancb</i></b>		
WT	ATGTCTGCGCGGTGTGGAAGGACACTTTCCAGGTGGTCTG	(806-845)
Δ4 (hg42)	ATGTCTGCGCGGTGTGGAAGGACACT-----AGGTGGTCTG	
<b><i>fanc c</i></b>		
WT	CAGCTCTTCTGGACACTAGCAGACACCTTGGCCCTCTGAG	(77-116)
Δ1 (hg43)	CAGCTCTTCTGGACACTAGCAGACAC--TTGGCCCTCTGAG	
Δ2 (hg44)	CAGCTCTTCTGGACACTAGCAGAC--CTTGGCCCTCTGAG	
<b><i>fancd1</i></b>		
WT	ACTTCTTTGGTAGACAATAACAACACGGTGGCACCCA	(1048-1084)
+5bp (Δ7, +12; hg45)	ACTTCTTTGGTAGACAATgaattaagttatCGGTGGCACCCA	
<b><i>fancd2</i></b>		
WT	GCCTTTCGGGGTCACATGTACAAACAGGCCTTCACTGCCT	(1356-1396)
Δ4 (hg46)	GCCTTTCGGGGTCACATGTACA-----GGCCTTCACTGCCT	
Δ20 (hg47)	GCCTTTCGGGGTCACA-----GCCT	
<b><i>fance</i></b>		
WT	GGAAGATTTCCGGGTACTGATGTACAGGGAGGGTGGACAT	(445-484)
Δ2 (hg48)	GGAAGATTTCCGGGTACTGATGTACAG--AGGGTGGACAT	
Δ11 (hg49)	GGAAGATTTCCGGGTACTGA-----GGTGGACAT	
<b><i>fancf</i></b>		
WT	GTGCGCGAATGGGACCGTCCCACCACACAGCGGGCGTTTA	(67-106)
Δ4 (hg50)	GTGCGCGAATGGGACCGTCCCACCA-----GCGGGCGTTTA	
Δ10 (Δ23, +13; hg51)	GTGCGCG---taagaaaatggga-----CGGGCGTTTA	
<b><i>fancg</i></b>		
WT	CTCTGAGACTGGAAGAAGACACCTCACTAATGGTTGCCAT	(521-560)
Δ5 (Δ7, +2; hg52)	CTCTGAGACTGGAAGAAGACACCTCAC--ca---TGCCAT	
Δ7 (hg53)	CTCTGAGACTGGAAGAAGACAC-----ATGGTTGCCAT	
<b><i>fanci</i></b>		
WT	CTCATTCGGCCCTAAACCAGGACCATTCCGGAAAGGTG	(1182-1218)
Δ8 (hg54)	CTCATTCGGCCCTAAACCAGGAC-----AAGGTG	
+2 (Δ3, +5; hg55)	CTCATTCGGCCCTAAACCAGGcctaaATTCCGGAAAGGTG	
<b><i>fancj</i></b>		
WT	ACTTGGACCA <b>TGGAATTGAACAACGGAGCC</b> AGAGCTGACA	(631-670)
Δ5 (hg56)	ACTTGGACCATG-----GAACAACGGAGCCAGAGCTGACA	
Δ4 (hg57)	ACTTGGACC-----AATTGAACAACGGAGCCAGAGCTGACA	

## S2 Fig continued

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### *fanc1*

WT GCCAACGTCCACAGCCAGTTCCT (538-560)  
+25 (hg58) GCCAACGgattgatatgatttatgttgatggcTCCACAGCCAGTTCCT  
 $\Delta$ 7 (hg59) GCCAAC-----GCCAGTTCCT

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### *fancm*

WT TCCGCCGGCCGTGTCTGGATCTACCCACCAACCTGC (190-226)  
 $\Delta$ 5 (hg60) TCCGCCGGCC-----TGGATCTACCCACCAACCTGC  
+4 (hg61) TCCGCCGGCCatctGTGTCTGGATCTACCCACCAACCTGC

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### *fancn*

WT GAGGAGAGGGACGTCGAAGAACGACTGTAGGACCCACA (1212-1248)  
 $\Delta$ 11 (hg62) GAGGAGAGGACGTCGAAGAAC-----CCACA  
 $\Delta$ 8 (hg63) GAGGAGAGGACGTCGAAGAA-----GGACCCACA

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### *fanco*

WT AGAGGGCAGCAGCAGACGGCGTAACGGCACT (191-221)  
 $\Delta$ 8 (hg64) AGAGGGCAGCAGCAG-----ACGGCACT  
+13 ( $\Delta$ 1, +14; hg65) AGAGGGCAGCAGCAGACGGCagtggatcaatataTAACGGCACT

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### *fancp*

WT GGCGCTGGCTCTGTCCCGCTCTCTGCTGGAGCAGGA (870-905)  
 $\Delta$ 7 (hg66) GGCGCTGGCTCTGTCCCGCT-----GGAGCAGGA  
 $\Delta$ 5 (hg67) GGCGCTGGCTCTGTCCCGCTCT-----GGAGCAGGA

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### *fancq*

WT CGCTACAACCCCACACTGGAAGCAGAAGACCTTTTCT (694-729)  
 $\Delta$ 22 (hg68) C-----AGAAGACCTTTTCT  
+2 ( $\Delta$ 2, +4; hg69) CGCTACAACCCCACTacaTGGAAGCAGAAGACCTTTTCT

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### *fancu (ube2t)*

WT TGGAGGTGCAAACACTCCGTATGAAGGTGGTG (217-248)  
 $\Delta$ 7 (hg70) TGGAGGTGCAAACA-----TGAAGGTGGTG  
+13 ( $\Delta$ 4, +17; hg71) TGGAGGTGCAAACACTgaaggtgaagtgtctggATGAAGGTGGTG

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### *faap100*

WT ACTTGCTGGACCATATACAAACCCAAACAGGGTCCGTT (1113-1149)  
 $\Delta$ 4 (hg72) ACTTGCTGGACCATATACAA-----AACAGGGTCCGTT  
 $\Delta$ 5 (hg73) ACTTGCTGGACCATATACA-----AACAGGGTCCGTT

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### *faap24*

WT GTGTCCTCTATGTGTCAGAAAGTGACCTTGGTGGCAGG (176-212)  
 $\Delta$ 2 (hg74) GTGTCCTCTATGT--CAGAAAGTGACCTGGTGGCAGG  
 $\Delta$ 11 (hg75) GTGTC-----AGAAAGTGACCTGGTGGCAGG

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### *tp53*

WT CCTCCACAGGGCTCCGTGGTTCGAGCCACTGCCATCTA (355-392)  
 $\Delta$ 7 (hg91) CCTCCACAGGGCT-----TCGAGCCACTGCCATCTA

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