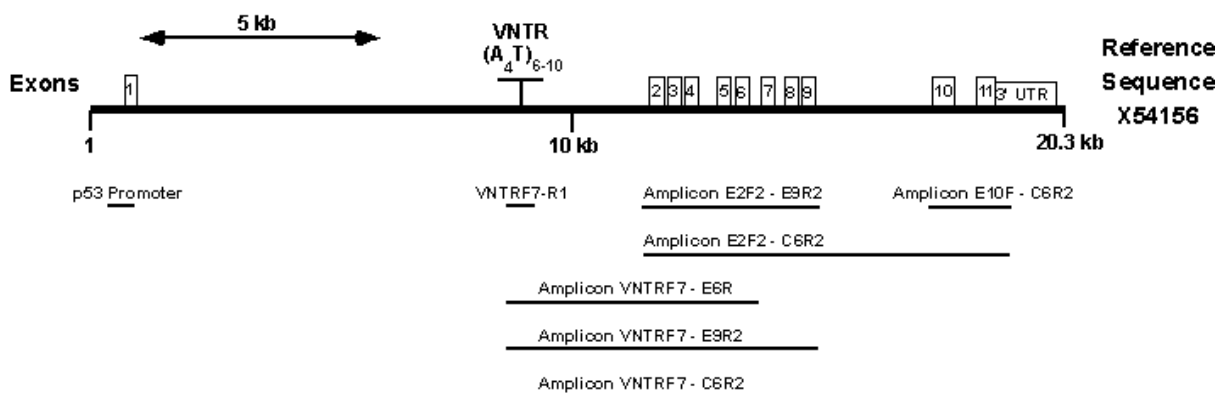


Fig. S1. p53 genomic map, PCR primers and sequencing strategy



P53 PCR amplicons:

| Gene | Primer Pairs | Reference Sequence | 5' Position of Forward Primer in Reference Sequence X54156 | 5' Position of Reverse Primer in Reference Sequence X54156 | PCR Amplicon Size (bp) |
|------|------------------------|--------------------|--|--|------------------------|
| p53 | p53_E2F2 + p53_E9R2 | HSP53G - X54156 | 11633 | 14847 | 3215 |
| p53 | p53_E2F2 + p53_C6R2 | HSP53G - X54156 | 11633 | 18785 | 7153 |
| p53 | p53_VNTRF7+ p53_VNTRR1 | HSP53G - X54156 | 8658 | 9076 | 419 |
| p53 | p53_VNTRF7 + p53_E6R | HSP53G - X54156 | 8658 | 13487 | 4830 |
| p53 | p53_VNTRF7 + p53_E9R2 | HSP53G - X54156 | 8658 | 14847 | 6190 |
| p53 | p53_VNTRF7 + p53_C6R2 | HSP53G - X54156 | 8658 | 18785 | 10128 |
| p53 | p53_E10F + p53_C6R2 | HSP53G - X54156 | 17492 | 18785 | 1294 |

P53 sequencing primers:

| Gene | Primer Name | Primer Sequence (5' -> 3') | Reference Sequence | Orientation of Primer | Primer 5' position in Reference Sequence | Primer 3' position in Reference Sequence | Primer Length (nt) |
|------|-------------|------------------------------------|--------------------|-----------------------|--|--|--------------------|
| p53 | p53_VNTRF7 | CTTTCCTCAACTCTACATTTCCATAATACATAGA | HSP53G - X54156 | F | 8658 | 8692 | 35 |
| p53 | p53_VNTRR1 | ACAAAACATCCCCCTACCAACAGC | HSP53G - X54156 | R | 9076 | 9053 | 24 |
| p53 | p53_C6R2 | GCACACCTATTGCAAGCAAGGG | HSP53G - X54156 | R | 18785 | 18764 | 22 |
| p53 | p53_E10F | TCAAACAATTGTAACCTGAACCATC | HSP53G - X54156 | F | 17492 | 17516 | 25 |
| p53 | p53_E10R3 | TCCTATGGCTTTCCAACCTAG | HSP53G - X54156 | R | 17742 | 17722 | 21 |
| p53 | p53_E10RS2 | GGGCTCAAACCTCCGACC | HSP53G - X54156 | R | 18171 | 18154 | 18 |
| p53 | p53_E11FS2 | GCGCAGTGGCTCACGAA | HSP53G - X54156 | F | 18098 | 18114 | 17 |
| p53 | p53_E2F2 | CAGGTGACCCAGGGTTGGAAG | HSP53G - X54156 | F | 11633 | 11653 | 21 |
| p53 | p53_E3R | CCCAACCTTGCTCTACCAGAAC | HSP53G - X54156 | R | 11945 | 11922 | 24 |
| p53 | p53_E4R2n | AAACACTGACAGGAAGCCAAAGG | HSP53G - X54156 | R | 12418 | 12396 | 23 |
| p53 | p53_E5F | ACTTGTGCCCTGACTTTCAAC | HSP53G - X54156 | F | 13010 | 13030 | 21 |
| p53 | p53_E6R | CCAAGTACAACCCCTTAAC | HSP53G - X54156 | R | 13487 | 13467 | 21 |
| p53 | p53_E7F | AGGTCTCCCAAGGCG | HSP53G - X54156 | F | 13949 | 13964 | 16 |
| p53 | p53_E7R3 | GATGGGTAGTAGTATGGAAGAAATCGG | HSP53G - X54156 | R | 14218 | 14192 | 27 |
| p53 | p53_E8F2 | GATTTCTTACTGCCTCTTGCTTCTC | HSP53G - X54156 | F | 14408 | 14433 | 26 |
| p53 | p53_E9R2 | CCCAATTGCAGGTAAACAGTC | HSP53G - X54156 | R | 14847 | 14826 | 22 |
| p53 | P53_i4F2 | AAAGAAAAGCTCCTGAGGTGATAGCG | HSP53G - X54156 | F | 12895 | 12920 | 26 |
| p53 | P53_i4R | CTTTTTTTTTTTTTTTGAGATAGGGTC | HSP53G - X54156 | R | 12898 | 12872 | 27 |
| p53 | p53_i6F2 | AAATTAGCCGGCGTGGTGCT | HSP53G - X54156 | F | 13762 | 13782 | 21 |
| p53 | p53_i6R | CCTTTTTTTTTTTTTTTGAGATGGAA | HSP53G - X54156 | R | 13931 | 13905 | 27 |
| p53 | p53_in3F | GGGCTGGGGGCTGA | HSP53G - X54156 | F | 11967 | 11981 | 15 |