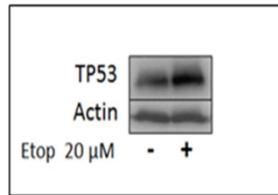
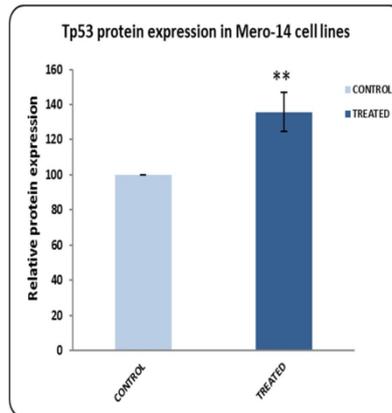


Figure S2

A



B



P53 protein levels and stabilisation induced by DNA damage in Mero-14 cells **A.** Detection of the Total p53 protein levels in the Mero-14 cell lines with and without DNA damage by using SDS PAGE and Western Blotting. The cell lines were incubated for 24 hrs with or without 20μM etoposide. **B.** Quantification of the wild-type p53 protein levels in the Mero-14 shown in Figure S2A, which was generated by using ImageJ software. Data is representative of three experiments; band intensity was normalised to β -actin. *indicates $p < 0.05$.

(C) Sequence alignment of the coding sequence of the TP53 gene (exons 1–11) from Mero-14 cell line, as described in Methods.

```

      4810      4820      4830      4840      4850      486
TP53,RefSeqNG_017013.2
P53,NC_000017Exon1
Mero14,P53Exon1
.....|.....|.....|.....|.....|.....|
ACCAATTCTGCCCTCACAGCTCTGGCTTGCAGAAATTTCCACCCCAAAATGTTAGTATCT

      4910      4920      4930      4940      4950      496
TP53,RefSeqNG_017013.2
P53,NC_000017Exon1
Mero14,P53Exon1
.....|.....|.....|.....|.....|.....|
TCCCAACTCCATTTCTTTGCTTCTCCGGCAGGGCGATTACTTGCCCTTACTTGTTCAT

      5010      5020      5030      5040      5050      506
TP53,RefSeqNG_017013.2
P53,NC_000017Exon1
Mero14,P53Exon1
.....|.....|.....|.....|.....|.....|
GATGGGATTGGGGTTTTCCCTCCCATGTGCTCAAGACTGGCGCTAAAAGTTTGAGCTT

      5110      5120      5130      5140      5150      516
TP53,RefSeqNG_017013.2
P53,NC_000017Exon1
Mero14,P53Exon1
.....|.....|.....|.....|.....|.....|
CTGGGCTCCGGGGACACTTTGCGTTTCGGGCTGGGAGCGTGCCTTCCACGACGGTGACACG

      5210      5220      5230      5240      5250      526
TP53,RefSeqNG_017013.2
P53,NC_000017Exon1
Mero14,P53Exon1
.....|.....|.....|.....|.....|.....|
TCCTCTCTGAGTCACGGGCTCTCGGCTCCGTGATTTTTCAGCTCGGGAAAATCGCTGGGG

      15910     15920     15930     15940     15950     15960     159
TP53,RefSeqNG_017013.2
P53,NC_000017Exon2
Mero14,P53Exon2
.....|.....|.....|.....|.....|.....|
TGCTGGATCCCCACTTTTCTCTTGCAGCAGCCAGACTGCCTTCCGGGTCACTGCCATGGAGGAGCCGCA

      16010     16020     16030     16040     16050     16060     160
TP53,RefSeqNG_017013.2
P53,NC_000017Exon2
Mero14,P53Exon2
.....|.....|.....|.....|.....|.....|
TCAGGAAACATTTTCAGACCTATGGAACCTGTGAGTGGATCCATTGGAAGGGCAGGCCACCACCCCCAC

      16110     16120     16130     16140     16150     16160     161
TP53,RefSeqNG_017013.2
P53,NC_000017Exon2
Mero14,P53Exon2
.....|.....|.....|.....|.....|.....|
GGGAAGCGAAAATTCATGGGACTGACTTTCTGCTTTGCTTTTCAGACTTCTGAAAACAACGTTCTGG

      16110     16120     16130     16140     16150     16160     161
TP53,RefSeqNG_017013.2
P53,NC_000017Exon3
Mero14,P53Exon3
.....|.....|.....|.....|.....|.....|
GGGAAGCGAAAATTCATGGGACTGACTTTCTGCTTTGCTTTTCAGACTTCTGAAAACAACGTTCTGG

```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon4
Mero14,P53Exon4

```
.....16310.....16320.....16330.....16340.....16350.....  
TGGATGATTTGATGCTGTCCCCGGACGATATTGACAATGGTTCACCTGAAGAC  
.....  
.....
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon4
Mero14,P53Exon4

```
.....16410.....16420.....16430.....16440.....16450.....  
GGCCCCGTCACCAGCAGCTCCTACACCGGGGGCCCCGTCACCAGCCCCCTCCT  
.....  
.....
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon4
Mero14,P53Exon4

```
.....16510.....16520.....16530.....16540.....16550.....  
TACGGTTTCCGTCTGGGCTTCTTGCATTCCTGGGACAGCCAACTCTGTGACTTG  
.....  
.....
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon4
Mero14,P53Exon4

```
.....16610.....16620.....16630.....16640.....16650.....  
TGGCCGTATCCCCCTGCATTTCTTTGTTTGGAACTTTGGGATTCCTCTTCAC  
.....  
.....
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon5,6
Mero14,P53Exon5,6

```
.....17310.....17320.....17330.....17340.....17350.....  
TCCCTTCTCTACAGTACTCCCTGCCCTCAACAAGATGTTTGGCCAACTGGCC  
.....  
.....
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon5,6
Mero14,P53Exon5,6

```
.....17410.....17420.....17430.....17440.....17450.....  
CACCCCGCTCCGCGCCATGGCCATCTACAAGCAGTCACAGCACATGACGGAGG  
.....  
.....
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon5,6
Mero14,P53Exon5,6

```
.....17510.....17520.....17530.....17540.....17550.....  
GAGCAGCTGGGGCTGGAGAGACGACAGGGCTGGTTGCCAGGGTCCCCAGGCC  
.....  
.....
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon5,6
Mero14,P53Exon5,6

```
.....17610.....17620.....17630.....17640.....17650.....  
TTATCCGAGTGGAAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACT  
.....  
.....
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon5,6
Mero14,P53Exon5,6

```
.....17710.....17720.....17730.....17740.....17750.....  
TGCAACTGGGGTCTCTGGGAGGAGGGGTTAAGGGTGGTTGTCACTGGCCCTCC  
.....  
.....
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon7
Mero14,P53Exon7

```
      18210      18220      18230      18240      18250      18260      182
-----|-----|-----|-----|-----|-----|-----|
GCTTGCCACAGGTTCTCCCAAGGCGCACTGGCCTCATCTTGGGCGTGTGTATCTCCTAGGTTGGCTCTG
-----|-----|-----|-----|-----|-----|-----|
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon7
Mero14,P53Exon7

```
      18310      18320      18330      18340      18350      18360      183
-----|-----|-----|-----|-----|-----|-----|
GTAACAGTTCTGCATGGGCGGCATGAACCCGAGGCCATCCTCACCATCATCACACTGGAAGACTCCAG
-----|-----|-----|-----|-----|-----|-----|
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon7
Mero14,P53Exon7

```
      18410      18420      18430      18440      18450      18460      184
-----|-----|-----|-----|-----|-----|-----|
GCCTGCTGTGCCCCAGCCTCTGCTTGCTCTGACCCCTGGGCCACCTTTACCGATTTTCCATACTA
-----|-----|-----|-----|-----|-----|-----|
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon8,9
Mero14,P53Exon8,9

```
      18710      18720      18730      18740      18750      187
-----|-----|-----|-----|-----|-----|-----|
CTATCCTGAGTAGTGGTAATCTACTGGGACGGAACAGCTTTGAGGTGCCTGTTTGTGCCT
-----|-----|-----|-----|-----|-----|-----|
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon8,9
Mero14,P53Exon8,9

```
      18810      18820      18830      18840      18850      188
-----|-----|-----|-----|-----|-----|-----|
CAAGAAAGGGGAGCCTCACCACGAGCTGCCCCAGGGAGCACTAAGCGAGGTAAGCAAGC
-----|-----|-----|-----|-----|-----|-----|
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon8,9
Mero14,P53Exon8,9

```
      18910      18920      18930      18940      18950      189
-----|-----|-----|-----|-----|-----|-----|
CCTCAGATTCACTTTTATCACCTTTCCCTTGCCCTTTTCTAGCACTGCCAACAAACCA
-----|-----|-----|-----|-----|-----|-----|
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon8,9
Mero14,P53Exon8,9

```
      19010      19020      19030      19040      19050      190
-----|-----|-----|-----|-----|-----|-----|
ATATTTACCCCTCAGTACTAAGTCTTGGGACCTTTATCAAGTGGAAGTTTCCAGTC
-----|-----|-----|-----|-----|-----|-----|
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon10
Mero14,P53Exon10

```
      21810      21820      21830      21840      21850      21860      218
-----|-----|-----|-----|-----|-----|-----|
ATATACTTACTTCTCCCCCTCCTGTTGCTGCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCCGAGA
-----|-----|-----|-----|-----|-----|-----|
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon10
Mero14,P53Exon10

```
      21910      21920      21930      21940      21950      21960      219
-----|-----|-----|-----|-----|-----|-----|
CCAGGCTGGGAAGGAGCCAGGGGGAGCAGGGCTCACTCCAGGTGAGTGACCTCAGCCCCCTCCTGGCCC
-----|-----|-----|-----|-----|-----|-----|
```

TP53,RefSeqNG_017013.2
P53,NC_000017Exon10
Mero14,P53Exon10

```
      22010      22020      22030      22040      22050      22060      220
-----|-----|-----|-----|-----|-----|-----|
ATAGGATTCCATTCTCATCCTGCCTTCATGGTCAAAGGCAGCTGACCCCATCTCATTGGGTCCCAGCCCT
-----|-----|-----|-----|-----|-----|-----|
```

