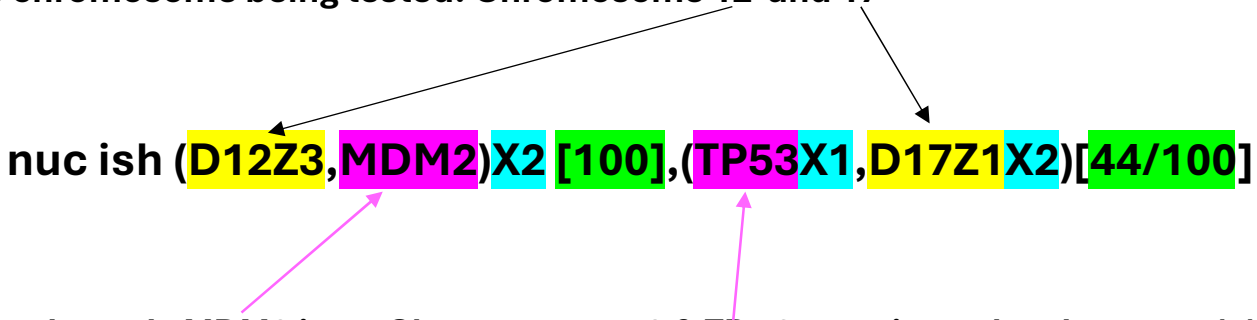
Interpreting the NUC ISH

nuc ish: Nucleic Acid in situ hybridization, a technique used with ISH to detect specific DNA sequences within the nucleus of cells.

The probe for the chromosome being tested: Chromosome 12 and 17



The number of copies of the chromosome/gene:

- **The normal finding would be 2 copies of a gene, one from each parent.**
- **There are 2 copies of MDM2, this is normal X2**
- **There is 1 copy of TP53, this means one is missing. X1 (as there is a X2 for Chromosome 17, this means that only the section with the TP53 was lost (or the short arm p)**

The number of interphases with the aberration/the number of interphases total.

- **The first number in the brackets [ ] indicates how many cells had the aberration. [44/100]**
- **The second number in the brackets [ ] indicates how many cells were evaluated. [44/100]**
- **If it lists only 100, that means that all the cells that were evaluated were normal. [100]**