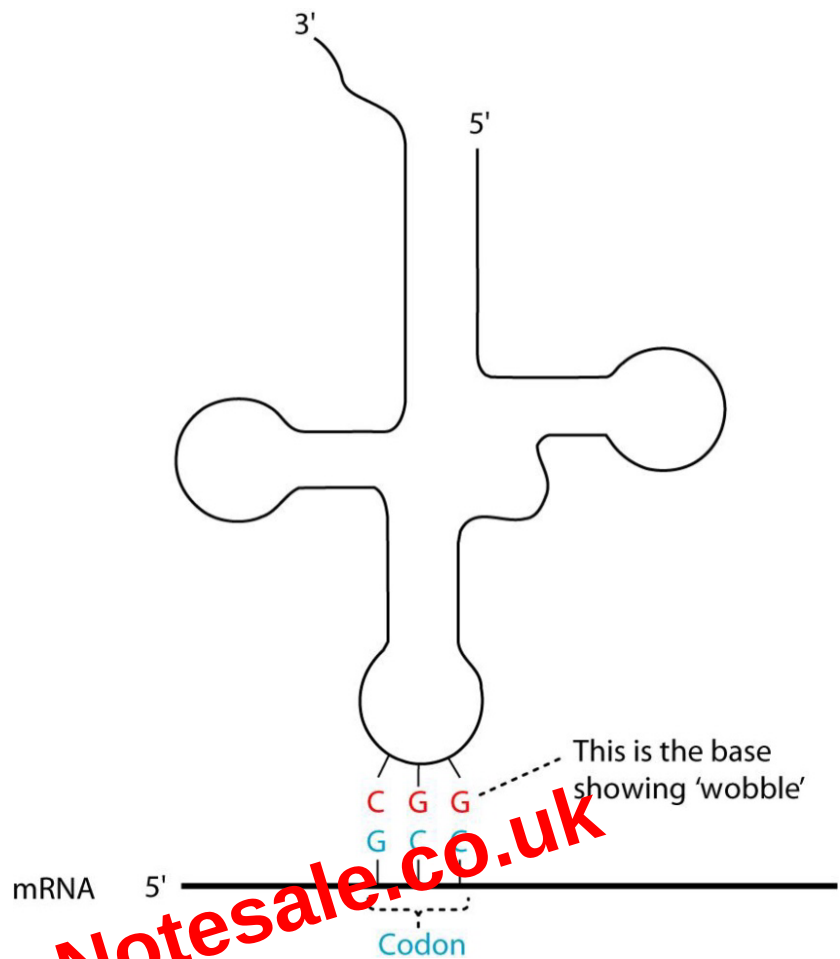


- Anticodon is a triplet of bases complementary to a codon
- 3 bases are unpaired and available for hydrogen bonding
- 61 amino acid codons but less than 61 different tRNA molecules therefore some tRNAs can recognise more than one codon
- Wobble pairing allows this to occur as it means the same tRNA can attach to different codons with a different 3' end base



Wobble mechanism

- Last base on anticodon does not form non Watson-Crick base-pair
- Doesn't affect amino acid sequence of a protein
- Allows a single tRNA species to recognise more than 1 codon
- Can still fit together
- Only happens for certain amino acids

Anticodon 3' CGG 5'

Codon: 5' GCC 3'
(alanine)

Anticodon 3' CGG 5'

Codon: 5' GCG 3'
(alanine)