MA*	28.24%	19.17%
MK**	10.59%	2.50%
MS*	9.41%	11.67%
MT*	7.65%	6.67%

<sup>\*</sup> Methionine was removed in all of these proteins

Once the initiation complex is formed on the mRNA, the large ribosomal subunit binds to this complex, which causes the release of IFs (initiation factors). The large subunit of the ribosome has three sites at which tRNA molecules can bind. The A (amino acid) site is the location at which the aminoacyl-tRNA anticodon base pairs up with the mRNA codon, ensuring that correct amino acid is added to the growing polypeptide chain. The P (polypeptide) site is the location at which the amino acid is transferred from its tRNA to the growing polypeptide chain. Finally, the E (exit) site is the location at which the "empty" tRNA sits before being released by the cytoplasm to bind another amino acid and repeat the proce. The initiator methionine tRNA is the only aminoacyl-tRNA at the process the initiator methionine is thus ready to bind the growing aminoacyl-tenal aminoacyl-tenal coden. The ribosome is thus ready to bind the growing aminoacyl-tenal aminoacyl-tenal coden. The ribosome is thus ready to bind the growing aminoacyl-tenal coden. The ribosome is thus ready to bind the growing beginning to the Growing beginning to the figure 5).

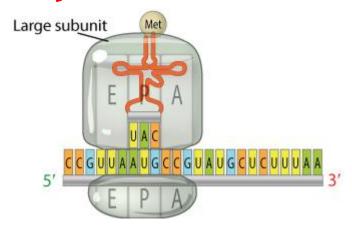


Figure 5: The large ribosomal subunit binds to the small ribosomal subunit to complete the initiation complex.

The initiator tRNA molecule, carrying the methionine amino acid that will serve as the first amino acid of the polypeptide chain, is bound to the P site on the

<sup>\*\*</sup> Methionine was not removed from any of these proteins