



### Additional file 6

**Metagene analysis shows periodicity of bound ribosomes.** The 5' ends of reads of each of the ribosome protected fragments were mapped with respect to start (**A**) and stop (**B**) codons. This confirmed a 3 nucleotide periodicity consistent with the triplicate nature of codons and the peak 13 nucleotides upstream of start codons is consistent with ribosomes bound at these locations.