Figure S1. An edge-on HR-TEM image of the stacking graphene layers. All the edges are closed (folded) between adjacent graphene layers. An edge-line corresponds to a closed edge. The partial AA stacking marked by a rectangle and AB stacking marked by a parallelogram can be also identified.
Figure S2. A series of tilting experiment to distinguish a bi-layer graphene with the AA stacking and a monolayer graphene. Specimens are systematically tilted around the axes in their zigzag and armchair directions. The hexagonal contrast should still exist in a monolayer graphene even after a tilt of 20 degrees, however, the hexagonal contrast will disappear (and a line contrast emerges instead) after a tilt of 20 degrees in the bi-layer graphene.
Figure S3. EELS chemical analysis of the graphite edges.