

Figure S5. Alignment of the ASHH2 SET domain to SET domains of related proteins. The Associated With SET (AWS) domain, the SET domain and the Post-SET domain of ASHH2 aligned with the same domains of ASH1-group proteins from Arabidopsis [At] and other species ([Nc] Neurospora crassa, [Sp] Saccharomyces pombe, [Sc] Saccharomyces cerevisiae, [Dm] Drosophila melanogaster, [Os] Oryza sativa (rise), [Hs] human). ASHH2 is most similar to proteins with H3K36me3 activity (between the red lines), however, with a few deviating amino acids also found in the rise homologue (red letters) in conserved regions. The F/Y switch assumed to determine product specificity is indicated with a red arrowhead.