## Figure S2 iii. Observed H3K36me3 and H3K27me3 frequencies against expected distributions.

10

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## Minimal segment length: 10Mb

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15

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ound (randomizat

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Background (randomizatio

Background (randomizations



ntage of bases in breakpoint regions overlapping with H3K36me3 sites

SETD2 Mut breakpoint regions (ISeg=10Mb; IBrk=10kb) 0.05 Background (randomizatio 0.04 0.03 Density Observed Mut % P=0.412 0.02 0.01 8 10 20

> Percentage of bases in breakpoint regions over ng

SETD2 Mut breakpoint regions (ISeg=10Mb; IBrk=20kb)



SETD2 Mut breakpoint regions (ISeg=10Mb; IBrk=50kb)



SETD2 Mut breakpoint regions (ISeg=10Mb; IBrk=100kb)





SETD2 LOH breakpoint regions (ISeg=10Mb; IBrk=100kb)



