

**Additional File Table 7.** Number of top 91 age-associated CpGs in common between different RefFreeEWAS models using original dataset and a) top 100 age-associated CpGs in Validation dataset or b) significant ( $< 5e-8$ ) age-associated CpGs in the Validation dataset

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	a)	b)
Ref_all*	24	95
Ref_men#	18	58
Ref_women#	19	81
Ref_all_sm^	25	92
Ref_men_sm~	18	69
Ref_women_sm~	22	83

\* Model factors include sex and age

# Model factors include age

^ Model factors include age, sex, and smoking

~ Model factors include age and smoking