active gene promoter

inactive gene promoter

open/ accessible chromatin
DNA hypo-methylated
active histone marks,
e.g. H3K9ac, H3K4me3
active transcriptional complex,
including RNA PolII

closed/ inaccessible chromatin
DNA hyper-methylated
inactive histone marks,
e.g. H3K27me3, H3K9me2
transcriptional repressor complex