

*min28b\_donor\_carric*, PCAWG\_Hig19\_AJI\_RefSig.52\_intron\_sigs\_perclimits\_1000xwalel\_Nmatnorm  
cmaas\_35198261v8d100%jouar25198261  
23chr.chr.chr10.d1752.3064646.2543152 15582792 1197784 917962 4877275 50894 803894 264333 187976 127996 82382 48821 25388 56427\_2718  
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