

Chr	Location	Overlapped gene	Left gene (distance)	Right gene (distance)	Genomic region
4	3010811	None	N/A (centromere)	Vmn1r2-ps2 (20095 bp)	Intergenic
4	46790936	Gabbr2	Tbc1d2 (127855 bp)	Gm568 (230252 bp)	Intronic
4	141306461	Agmat	Ddi2 (27127 bp)	Dnajc16 (9643 bp)	Intronic
4	145428809	None	Gm13238 (908 bp)	Gm13246-001 (5498 bp)	Intergenic
4	146141283	Zfp600 Gm13165 Gm17452	Gm13051 (47261 bp)	Gm13170 (4242 bp)	Intronic Non-coding
4	146599023	Gm16889 Gm17317	Gm13163 (29703 bp)	Gm13147 (5370 bp)	Non-coding
4	146711210	Gm16889 Gm17317	Gm13151 (3367 bp)	Gm13145 (22407 bp)	Non-coding
5	33068902	Gm2420	Yes1 (79472 bp)	Pisd (10047 bp)	Non-coding
6	47698472	None	Y-RNA (11254 bp)	AC166252.1 (24856 bp)	Intergenic
6	103264621	None	U6.880 (452125 bp)	Chl1 (196249 bp)	Intergenic

7	23614005	None	Gm4207 (21673 bp)	Vmn1r159 (13072)	Intergenic
7	46628130	None	U6.424 (88627 bp)	Gm5114 (34534)	Intergenic
7	148824812	Muc6	Ap2a2 (5902 bp)	Muc2 (51456)	Exonic
8	14306925	Dlgap2	SNORA17.403 (33614 bp)	C030037F17Rik (438404 bp)	Intronic
8	19929891	Gm172379 2610005L07Rik	6820431F20Rik (36881 bp)	Gm15319 (3351 bp)	Non coding
8	73672924	None	Gm17576 (105985 bp)	Haus8 (102100 bp)	Intergenic
8	74324225	None	Fcho1 (74610 bp)	Gm5373 (52846 bp)	Intergenic
10	7233614	None	9230019H11Rik (6912 bp)	Lrp11 (76001 bp)	Intergenic
11	31822731	Cpeb4	Gm12107 (84517 bp)	4930524B15Rik (42861 bp)	Intronic
11	53954092	None	P4ha2 (8938 bp)	Gm12221 (18336 bp)	Intergenic
12	88821123	None	Snw1 (7874 bp)	Gm2022 (12151 bp)	Intergenic

13	3372770	None	<b>Speer6d-ps1</b> (184207 bp)	<b>2810429I04Rik</b> (104779 bp)	Intergenic
13	76730298	Mctp1	Gm10760 (207822 bp)	<b>SNORA17.278</b> (13782 bp)	Intronic
16	36915248	Golgb1	4930565N06Rik (17973 bp)	Hcls1 (19821 bp)	Exonic
18	3005873	None	None (centromere)	<b>Vmn1r-ps151</b> (21082 bp)	Intergenic
18	40467890	Kctd16	2900055J20Rik (50552 bp)	Rps19-ps13 (418003 bp)	Intronic
19	39341696	<b>Cyp2c53</b> Cyp2c29	Cyp2c66 (80134 bp)	Cyp2c38 (122350 bp)	Intronic Non-coding
X	131588748	<b>3632454L22Rik</b>	Zmat1 (28917 bp)	Gm6207 (65752 bp)	Non coding
X	166505941	None	Mid1 (62273 bp)	Gm15069 (9891 bp)	Intergenic

**Supplemental Table 3. Persistent DMRs unique to cocaine self-administration.**

Chromosome (Chr) and location are derived from Ensembl Build 37 (NCBI37) with location defined as the middle of the DMR.

Black: protein coding

Blue: processed transcript

Purple: Linc RNA

Gray: transcribed processed pseudogene

Orange: transcribed unprocessed pseudogene

Pink: unprocessed pseudogene

Red: miscellaneous RNA

Green: miRNA

Turquoise: snRNA

Indigo: SNORA

\*: antisense