

A

Left breakpoints

Right breakpoints

A	acaaaatcttaaccatcaaaatagctcaagTTTTTTATATTTTTTTTCCGTTTATTGAC	...	ACCGACTTTTTTGTGTTTGTCTTTGCAttttttcattatTTTTTTTcttcgcctaa
B	gatttactcaaataggtggcccatgtactaAAAAAAACCAATACAGCTCTTCTAACACT	...	TATAACTAGAGGTCACCAAAGAAAAGaaaaacaggcattttcagctgatttcaatt
C	tttccaaatntagacctttttcatgtgtaataAACGCCATAATGCCGAATACGTACGGAGAA	...	AATATAATGTTGGTGTGTGCGTAGCAaaacaccaatgtcgaccagctattccatga
D	tatatgcaaaaaaatcagcctctcctttgCATTTGTGGCTGAATGAAGACCGTAAGCTAT	...	ATTGTTGGTGTGTGCGTAGCAAACACcaatgtcgaccagctattccatgacattac
E	gtcaactagaaatagggtttcggagttaaGCAATTTTTGCTGAGATCAATTTACCCAAG	...	ATCATTCAGTTCGACTTCACTTTTTTTgcaatttttgggaacattgtgtgcctcc
F	tttgctgcttttagtgccatgtcaactagaAATTAGGGTTTCGGAGTTAAGCAATTTTTG	...	ATTTGTATTTTTCTTTACGACTCTAACcactgatggtgggagcgcgaaactacata
G	agcgcctattggagattatgtgctgtttAGTGCCATGTCAACTAGAAATTAGGGTTTC	...	CTATTGTGCAGTAATATGTGATTTcagtgttttcttggogttctcatatttgtat
H	gagacaacaggttacagcaattgtagctgcGTTGAATCCCGTTCTATATTCGTTAAAG	...	ATACCCATTAGAAAGCAGAGAGAGATatcatgatgocstatggtacaagacataggt
I	ttgagtatgaggaagaggaaccaatacaaaCTAATATAGCCGTATAACGAGAACAAAATA	...	TTTGGGGAACATTGCTGTGCCTCCTCGccgctgttatcgtgcatctgtttggcac
J	aggaagctaaagaaggaagttcgaaaaagaGAAAGGCAGATGATACAAAGCTAAGCAAA	...	TCATGGATTCATAAAAGAAGGAAGGTgaaactatatcaatggttttttagtgaag
K	caaagattaacaagattaacacaagtggcaATTACAGAAAGACGATTTGGCATTGAATGAA	...	ACATGTGTGGTCTATATATGCTAGCATaaaacatctgaatcgtgtacccaagtgt
L	atatgaaaacagctgaaagagctcatatgcCCAATAGATGGTGGGAGCGAATCAAGCTTT	...	TATTTGTATTTTTCTTTACGACTCTAAccaactgatggtgggagcgcgaaactacat
M	tcggagttaagcaatttttgctgagatcaaTTTACCCAAGATGTATGTGTATATGCAAAA	...	GAAAGAATCATAAAGTGCTCATATCATtttgagctccaaacctttcccggcgaaca
N	tttaccgaagatgtatgtgtatatgcaaaaAAATCAGCCTCTCCTTTGCATTGTGGCTG	...	TCTCACCCAGATGGACCAGTCAACCTCaaatagcagcatggactcctacaactactgc
O	acgcctaagccgaatacgtacggagaacTGAAAAACAGAGGGTATCATTTGGTGTAAAT	...	TTTTCTTGGCGTTCTCATATTTGTATTTtctttacgactctaaccactgatggtgg
P	acgcaaaacttgatgacttgtggtgggatGAAAAATGTTTATGATATTCGTCGCTTACT	...	CAAAATTTAGAGGACTTAGCGTGGAGgaaacatgtatggtatacgtcgtttgacac

B

CNV-1	accagcttatcaagtgaaaagttttgcaagAGGTCCAGATTCATCAGACCCACAATCATA	...	CACACCATTACCCTCCAGCAAACAAAaggactgcacgacccctcttcatgtttot
CNV-2	ctcccagaaccaaaggttgtctcaacttcAGTTGGTTTTTTTTTGTGTCAAGTAAATACG	...	CTGTCATCGACGCAACCATACACTCGAagttgactattactggggcatacacacaca
CNV-3	ataataatcgagctactcccagaaccaaagGCTGTGCTCAACTTCAGTTGTTTTTTTTTGT	...	ACTATTACTGGGGCATAACACACACACacacacacacacacacaccattaccactc
CNV-4	caatttgactcccacacagaagacatctgtACGCGGTTTATTTAAGCTAACAACATTTGC	...	TACCACTCCAGCAAACAAAAGGACTGCacgcaccctcttcatgttcttagaaaat
CNV-5	ttgattaatcgactacgaaatttgagctacCAATTTGACTCCACACAGAAGACATCTGT	...	TGTTTTTTTCTTTCATCATCAACATCAatcaacataatcaacatcaacaaaaccattg
CNV-6	cgagcttacaaccaatatcaatccgacaatCTTGTACAACAACGTATGTAGGCCCAAATA	...	CGTGACATTTTGTGCGCATAGACACGCatacctaccacacactccacacacacatac
CNV-7	catcaatgcaattgaaactcaacctccgacACCAACTCCACCCATTTACTCAAGTAATCA	...	AAAACAACAACATACGAAGCATTAATtaagctactcgatactatacgaattgtgag
CNV-8	tttttggccacaaaaaacatttgatcacCACACAAACCATTGATAACATTATCAGCGC	...	CACACACACACACACACACACCATTaccactccagcaacaaaaggactgcacgc

Supplementary Figure S5. Repeat sequences at (A) *RTA3* and (B) *ARR3* amplifications. Diagram showing the sequences at breakpoints for the 16 *RTA3* CNVs (A), and eight *ARR3* CNVs (B). Breakpoints are demarcated by a switch from lowercase (outside the CNV) to uppercase (covered by the CNV) and vice-versa. Text highlighted in pink shows similarity between start- and end-points