Table S1. Rat and Mouse piRNA Clusters.

Cluster(s)	Coordinates of cluster(s)*	Length of cluster(s)	Genomic context of cluster(s)	Evolution of cluster(s)	Number of rat paralogs	Number of mouse paralogs	Paralogous cluster(s)	Rearrangements occurring after acquisition of cluster(s)
				Acquired after				
	chr9:105120000-			rat-mouse			Rat 28 / Mouse 16,	Chromosomal
Rat 38	105160000	40001	Intergenic	divergence	>2	>2	Rat 37, Rat 74	rearrangements
				Acquired after				
	chr17:20354000-			rat-mouse				Inversion of
Rat 99	20367000	13001	Intergenic	divergence	0	0		cluster region
Rat 39	chr1:47839000- 47873000	34001	Intergenic	Acquired after rat-mouse divergence	>2	>2	Rat 49, Rat 56, Rat 86	Inversion of rodent-specific predicted gene flanking cluster
Rat 56	chr1:47729000- 47753000	24001	Intergenic	Acquired after rat-mouse divergence	>2	>2	Rat 39, Rat 49, Rat 86	Inversion of rodent-specific predicted gene flanking cluster
Rat 65	chr15:84157000- 84160000	3001	Intergenic	Acquired after rat-mouse divergence	1	0	Rat 81	None
Mouse 84	chr8:35860000- 35873000	13001	Intergenic	Acquired after rat-mouse divergence	0	>2	Mouse 70	None
	chr10:85297000-			Acquired after rat-mouse			Mouse 42, Mouse	
Mouse 35	85334000	37001	Intergenic	divergence	>2	>2	54	None
Rat 42	chr5:25405000-	25001	Intergenic	Acquired after	>2	>2	Rat 59	Complex

	25430000			rat-mouse				rearrangements
				divergence				
							Rat 5 / Mouse 6,	
							Rat 21 / Mouse 46,	
							Rat 24 / Mouse 41,	
							Rat 32, Rat 45, Rat	
							53, Rat 55 / Mouse	
							58, Rat 72, Rat 73,	
				Acquired after			Rat 85 / Mouse	
	chr3:140578000-			rat-mouse			68/89, Mouse 51,	Complex
Rat 52	140591000	13001	Intergenic	divergence	>2	1	Mouse 63	rearrangements
				Acquired after				
	chr5:25621000-			rat-mouse				Complex
Rat 59	25636000	15001	Intergenic	divergence	>2	>2	Rat 42	rearrangements
							Rat 5 / Mouse 6,	
							Rat 21 / Mouse 46,	
							Rat 24 / Mouse 41,	
							Rat 32, Rat 45, Rat	
							52, Rat 53, Rat 55	
							/ Mouse 58, Rat	
				Acquired after			73, Rat 85 / Mouse	_ ,
	chr3:140378000-	10001		rat-mouse			68/89, Mouse 51,	Complex
Rat 72	140397000	19001	Intergenic	divergence	>2	0	Mouse 63	rearrangements
							Rat 5 / Mouse 6,	
							Rat 21 / Mouse 46,	
							Rat 24 / Mouse 41,	
							Rat 32, Rat 45, Rat	
							52, Rat 55 / Mouse	
				Acquired after			58, Rat 72, Rat 73,	
	chr3:140041000-			rat-mouse			Rat 85 / Mouse	Inversion near
Rat 53	140077000	36001	Intergenic	divergence	>2	0	68/89, Mouse 51,	cluster

							Mouse 63	
				Acquired after				
	chrX:124261000-			rat-mouse	_			Complex
Rat 71	124262000	1001	Intergenic	divergence	>2	0	Rat 91	rearrangements
								Interchromosomal
								insertion of
								flanking gene and
	1 0 0100000			Acquired after				insertion of
Manaa 50	chr8:91999000- 92013000	14001	Intercerie	rat-mouse				intergenic DNA
Mouse 50	92013000	14001	Intergenic	divergence	0	0		near cluster
				Acquired after rodent-				Large insertion of
	chr6:128190000-			primate				intergenic DNA
Mouse 34	128224000	34001	Intergenic	divergence	1	1		near cluster
10030 34	chr10:92629000-	34001	Intergenie	Acquired after	1	1		near cruster
	92654000 /			rodent-				
Rat 20 /	chr11:103533000-	25001 /		primate				Inversion of
Mouse 20	103559000	26001	Intergenic	divergence	0	0		flanking gene
							Rat 5 / Mouse 6,	
							Rat 21 /Mouse 46,	
							Rat 32, Rat 45, Rat	
							52, Rat 53, Rat 55	
							/ Mouse 58, Rat	
	chr4:119527000-			Acquired after			72, Rat 73, Rat 85	
	119539000 /			rodent-			/ Mouse 68/89,	
Rat 24 /	chr6:85140000-	12001 /		primate			Mouse 51, Mouse	
Mouse 41	85156000	16001	Intergenic	divergence	>2	>2	63	None
				Acquired after			Rat 5 / Mouse 6,	
	ab.,2.1400<0000			rodent-			Rat 21 /Mouse 46,	Commlex
Rat 32	chr3:140968000- 140994000	26001	Intergenie	primate	>2	0	Rat 24 / Mouse	Complex
Kai 32	1 1 U774UUU	20001	Intergenic	divergence	>4	l O	41Rat 45, Rat 52,	rearrangements

							Rat 53, Rat 55 / Mouse 58, Rat 72, Rat 73, Rat 85 / Mouse 68/89, Mouse 51, Mouse 63	
	chr4:116384000-			Acquired after				
D + 25 /	116396000 /	12001 /		rodent-				
Rat 35 /	chr6:81912000-	12001 /		primate				NT.
Mouse 27	81933000	21001	Intergenic	divergence	0	0		None
	chr1:184495000- 184506000 /			Acquired after rodent-				
Rat 48 /	chr7:121421000-	11001 /		primate				
Mouse 24	121461000	40001	Intergenic	divergence	0	0		None
1V10u3C 2-	121401000	40001	Intergenie	Acquired after	0			TYONE
				rodent-				
	chr11:82952000-			primate				
Rat 67	82970000	18001	Intergenic	divergence	>2	>2		None
	chr5:143156000-			Acquired after				
	143164000 /			rodent-				
Rat 76 /	chr4:123278000-	8001 /		primate				
Mouse 64	123287000	9001	Intergenic	divergence	0	0		None
				Acquired after				Insertion of
	1 1 51025000			rodent-			D . 20 D . 40 D	intergenic DNA
D . 0.6	chr1:51025000-	1.4001		primate			Rat 39, Rat 49, Rat	on both sides of
Rat 86	51039000	14001	Intergenic	divergence	>2	>2	56	cluster
				Acquired after				
	chr4:165034000-			rodent-				Complex
D	165054000	20001	Intergenic	primate divergence	>2	>2		Complex
Rat 90	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20001	Intergenic	urvergence	/4	<i>></i> 2		rearrangements

	22113000			rodent- primate divergence			Rat 21 / Mouse 46, Rat 24 / Mouse 41, Rat 32, Rat 45, Rat 52, Rat 53, Rat 55 / Mouse 58, Rat 72, Rat 73, Rat 85 / Mouse 68/89, Mouse 51	fission near cluster region
				Acquired after rodent-				
	chr5:142790000-			primate				
Mouse 48	142801000	11001	Intergenic	divergence	0	0		None
				Acquired after				
	chr13:24271000-			rodent- primate				
Mouse 85	24273000	2001	Intergenic	divergence	0	0		None
			8	Acquired after				
				rodent-				
M 02	chr4:123336000-	6001	T., .	primate				NT
Mouse 92	123342000 chr5:79245000-	6001	Intergenic	divergence Acquired after	0	0		None
	79257000 /			rodent-				
Rat 17 /	chr4:61654000-	12001 /		primate				Inversion of
Mouse 21	61673000	19001	Intergenic	divergence	1	1		cluster region
	chr9:105449000-			Acquired after rodent-primate			Rat 28 / Mouse 16,	Interchromosomal insertion of flanking genes on one side of cluster and inversion of intergenic DNA
Rat 37	105469000	20001	Intergenic	divergence	>2	>2	Rat 38, Rat 74	near cluster

				Acquired after				Interchromosomal insertion of flanking genes on one side of cluster and inversions of
				rodent-				flanking genes on
	chr17:17515000-			primate				both sides of
Rat 43	17556000	41001	Intergenic	divergence	2	1	Mouse 60	cluster
Rat 46 / Mouse 42	chr7:18786000- 18819000 / chr10:86113000- 86163000	33001 / 50001	Intergenic	Acquired after rodent-primate divergence	>2	>2		Interchromosomal insertion and inversion of flanking genes on one side of cluster
Rat 54	chr1:102090000- 102111000	21001	Intergenic	Acquired after rodent-primate divergence	>2	>2	Rat 58, Rat 61 / Mouse 45	Interchromosomal insertion of flanking genes on one side of cluster and inversion of cluster region
Rat 58	chr1:103000000- 103019000	19001	Intergenic	Acquired after rodent-primate divergence	>2	>2	Rat 54, Rat 61 / Mouse 45	Interchromosomal insertion of flanking genes on one side of cluster and insertion of intergenic DNA
Rat 61 / Mouse 45	chr1:102827000- 102845000 / chr7:49122000- 49150000	18001 / 28001	Intergenic	Acquired after rodent-primate divergence	>2	>2	Rat 54, Rat 58	Interchromosomal insertion of flanking genes on one side of cluster and inversion of intergenic DNA

								near cluster
								Interchromosomal
								insertion of
				Acquired after				flanking genes on
	1 0 105272000			rodent-			D 420 /M 16	one side of cluster
Dot 74	chr9:105273000-	25001	Intongonio	primate	. 2		Rat 28 / Mouse 16,	and inversion of
Rat 74	105298000	23001	Intergenic	divergence Acquired after	>2	>2	Rat 37, Rat 38	cluster region
				rodent-				
	chr5:79201000-			primate				Inversion of
Rat 80	79204000	3001	Intergenic	divergence	0	0		cluster region
			8	Acquired after				
				rodent-				
	chr10:90649000-			primate				Inversion of
Rat 93	90661000	12001	Intergenic	divergence	0	0		flanking gene
	chr2:105696000-							
	105728000,							
7 40 55	105657000-	22001		Acquired after				
Rat 40,57	105694000 /	32001,		rodent-				
/ Mouse	chr3:20186000- 20211000	37001 / 25001	Intongonio	primate	. 2	>2		None
91	20211000	23001	Intergenic	divergence	>2	>2		Interchromosomal
				Acquired after				insertion and
				rodent-				inversion of
	chr10:86171000-			primate				flanking genes on
Mouse 54	86183000	12001	Intergenic	divergence	>2	>2		one side of cluster
				Acquired after				
				rodent-				
	chr14:17284000-			primate				Chromosomal
Mouse 39	17311000	27001	Intergenic	divergence	>2	>2	Mouse 26	rearrangements
Mouse 60	chr13:52433000-	7001	Intergenic	Acquired after	1	1	Rat 43	Interchromosomal

	52440000			rodent- primate divergence				insertion of flanking genes on one side of cluster and inversion of
								flanking genes
				Acquired after				
				rodent-				2 large deletions
	chr8:26050000-			primate				at boundaries of
Mouse 70	26065000	15001	Intergenic	divergence	0	1	Mouse 84	cluster in rodents
				Acquired after				
				rodent-				Inversion of
	chr2:151143000-			primate				flanking genes on
Mouse 31	151162000	19001	Intergenic	divergence	>2	>2	Mouse 36	one side of cluster
	chr3:141656000-			Acquired after				
	141670000 /			rodent-				Inversion of
Rat 23 /	chr2:151055000-	14001 /		primate				flanking genes on
Mouse 30	151073000	18001	Intergenic	divergence	>2	>2	Rat 30 / Mouse 29	one side of cluster
				Acquired after				
				rodent-				Inversion of
	chr11:84973000-			primate				flanking genes on
Rat 29	85028000	55001	Intergenic	divergence	0	0		one side of cluster
	chr3:141591000-			Acquired after				
	141601000 /			rodent-				Inversion of
Rat 30 /	chr2:150989000-	10001 /		primate				flanking genes on
Mouse 29	151008000	19001	Intergenic	divergence	>2	>2	Rat 23 /Mouse 30	one side of cluster
	chr4:120368000-			Acquired after				
D . 45 /	120385000 /	15001		rodent-				Inversion of
Rat 47 /	chr6:86062000-	17001 /		primate				flanking genes on
Mouse 61	86079000	17001	Intergenic	divergence	0	0		one side of cluster
D 04	chr10:36520000-	2001		Acquired after				Inversion of
Rat 81	36523000	3001	Intergenic	rodent-	1	0	Rat 65	flanking genes on

				primate divergence				one side of cluster
Mouse 26	chr14:40245000- 40263000	18001	Intergenic	Acquired after rodent-primate divergence	>2	>2	Mouse 39	Inversion of flanking genes on one side of cluster
Mouse 36	chr2:150882000- 150899000	17001	Intergenic	Acquired after rodent-primate divergence	>2	>2	Mouse 31	Inversion of flanking genes on one side of cluster
Mouse 65	chr13:49938000- 49944000	6001	Intergenic	Acquired after rodent-primate divergence	>2	>2	Mouse 86	Inversion of flanking genes on one side of cluster
Mouse 81	chr14:40079000- 40097000	18001	Intergenic	Acquired after rodent-primate divergence	>2	>2		Inversion of flanking genes on one side of cluster
Rat 33	chr12:42905000- 42939000	34001	Intergenic	Acquired after rodent-primate divergence	>2	1		Inversion of cluster region
Rat 73	chr2:105598000- 105623000	25001	Intergenic	Acquired after rodent-primate divergence	>2	>2	Rat 5 / Mouse 6, Rat 21 / Mouse 46, Rat 24 / Mouse 41, Rat 32, Rat 45, Rat 52, Rat 53, Rat 55 / Mouse 58, Rat 72, Rat 85 / Mouse 68/89, Mouse 51, Mouse 63	Inversion of flanking genes on one side of cluster

				Acquired after rodent-				Inversion of
	chr15:83436000-			primate				cluster and
Mouse 38	83450000	14001	Intergenic	divergence	0	0	Rat 60	flanking gene
1110450 50	02.120000	11001	Intergenie	Acquired after			1100	Turning gene
				rodent-				
	chr10:66270000-			primate				
Mouse 28	66293000	23001	Intergenic	divergence	0	>2		None
-				Acquired after				
				rodent-				Inversion of
	chr7:121600000-			primate				flanking genes on
Rat 60	121604000	4001	Intergenic	divergence	0	1	Mouse 38	one side of cluster
	chr9:92473000-							
	92479000 /							
Rat 63 /	chr1:92900000-	6001 /						
Mouse 33	92905000	5001	Intergenic	Unknown	0	0		None
	chr13:51154000-	7001		TT 1				27
Mouse 67	51161000	7001	Intergenic	Unknown	0	0	D . 20 D . 7 C D	None
D 4 40	chrUn:42595000-	46001		NT (1 1	. 2	. 2	Rat 39, Rat 56, Rat	
Rat 49	42641000	46001	Intergenic	Not analyzed	>2	>2	86	n/a
96	chr17:20779000- 20785000	6001	Intercerie	Not analysed	. 2		Mouse 65	
86	20783000	6001	Intergenic	Not analyzed	>2	>2	Mouse 65	n/a Inversion of
	chr17:20742000-							flanking genes on
Rat 31	20810000	68001	Intergenic	Ancestral	0	0		one side of cluster
Kat 31	chr17:20188000-	00001	Intergenie	Ancestrai		0	Rat 5 / Mouse 6,	one side of cluster
	20198000 /						Rat 21 / Mouse 46,	
	chr13:49820000-						Rat 24 / Mouse 41,	
Rat 85 /	49833000,	10001 /					Rat 32, Rat 45, Rat	Inversion of
Mouse 68,	· /	13001,					52, Rat 53, Rat 55	flanking genes on
89	49377000	4001	Intergenic	Ancestral	>2	>2	/ Mouse 58, Rat	one side of cluster

			I		1	1	72, Rat 73, Rat 85	
							/2, Rat 75, Rat 65 / Mouse 68/89,	
							Mouse 51, Mouse	
							63	
	chr7:112772000-							
	112797000 /							
Rat 16 /	chr15:74701000-	25001 /						
Mouse 15	74752000	51001	Intergenic	Ancestral	0	0		None
	chr5:75292000-							
	75303000 /							
Rat 36 /	chr4:57398000-	11001 /						
Mouse 32	57406000	8001	Intergenic	Ancestral	0	0		None
	chr9:90835000-							
	90839000 /							
Rat 79 /	chr1:91310000-	4001 /						
Mouse 66	91314000	4001	Intergenic	Ancestral	0	0		None
	chr12:11152000-							
Rat 97	11160000	8001	Intergenic	Ancestral	0	0		None
	chr1:13931000-							
	13959000,							
	13901000-							
Rat 41,51	13927000 /	28001,						
/ Mouse	chr10:18519000-	26001 /						
44	18554000	35001	Intergenic	Ancestral	0	0		None
	chr13:37654000-							
	37658000 /							
Rat 68 /	chr1:125054000-	4001 /						
Mouse 72	125057000	3001	Intergenic	Ancestral	0	0		None
	chr20:5480000-							
Rat 1 /	5581000 /	101001 /						
Mouse 1	chr17:25458000-	95001	Intergenic	Ancestral	0	0		None

	25553000							
	chr4:164469000-							
	164546000 /							
Rat 2 /	chr6:127799000-	77001 /						
Mouse 5	127879000	80001	Intergenic	Ancestral	0	0		None
							Rat 21 / Mouse 46,	
							Rat 24 / Mouse 41,	
							Rat 32, Rat 45, Rat	
							52, Rat 53, Rat 55	
	chr1:129070000-						/ Mouse 58, Rat	
	129164000 /						72, Rat 73, Rat 85 / Mouse 68/89,	
Rat 5 /	chr7:69622000-	94001 /					Mouse 51, Mouse	
Mouse 6	69701000	79001	Intergenic	Ancestral	0	0	63	None
Wiouse o	chr8:57725000-	77001	Intergenie	7 Meestur		0	03	Trone
	57777000 /							
Rat 6 /	chr9:54236000-	52001 /						
Mouse 13	54298000	62001	Intergenic	Ancestral	0	0		None
	chr8:72069000-							
	72129000 /							
Rat 7 /	chr9:67715000-	60001 /						
Mouse 2	67803000	88001	Intergenic	Ancestral	0	0		None
	chr12:5597000-				_	_		
Rat 8	5633000	36001	Intergenic	Ancestral	0	0		None
Rat 9 /	chr7:68946000-	60001 /		1.				
Mouse 14	69002000	56001	Intergenic	Ancestral	0	0		None
	chr5:114521000-							
D / 10 /	114575000 /	54001 /						
Rat 10 /	chr4:93669000- 93725000	54001 /	Intonconio	A noostral				None
Mouse 17		56001	Intergenic	Ancestral	0	0		None Inversion of
Rat 12 /	chr7:96057000-	59001 /	Intergenic	Ancestral	l U	U		Inversion of

44001						
44001		1				
44001	1					
44001	Intergenic	Ancestral	0	1	Mouse 12	None
0-						
0- 15001 /						
13001	Intergenic	Ancestral	0	0		None
	Intergenic	Ancestral	0	0	Mouse 25	None
0-						
						Inversion of
	Intergenic	Ancestral	>2	>2	74	cluster region
0-						
	Intergenic	Ancestral	0	0		None
0-						
0 10001 /						
		A . 1				NT
20001	Intergenic	Ancestral	0	0	D + 5 / N = 6	None
					· · · · · · · · · · · · · · · · · · ·	
					· ·	
					· · · · · · · · · · · · · · · · · · ·	
0-						
-	Intergenic	Ancestral	>2	>2		None
)		44001 Intergenic	44001 Intergenic Ancestral	44001 Intergenic Ancestral 0	44001 Intergenic Ancestral 0 1	August A

							Mouse 63	
	chr1:241697000-							
Ţ	241724000 /							
Rat 50 /	chr19:36956000-	27001 /						
Mouse 59	36962000	6001	Intergenic	Ancestral	0	0		None
·	chr14:41998000-			T				
Rat 62	42011000	13001	Intergenic	Ancestral	0	0		None
·	chr9:7094000-	Ţ		Ţ				_
Rat 64	7096000	2001	Intergenic	Ancestral	0	0		None
	chr17:18976000-	Ţ		Ţ				
Rat 69	19001000	25001	Intergenic	Ancestral	0	0		None
•	chr6:93598000-							
Rat 84	93616000	18001	Intergenic	Ancestral	0	0		None
•	chr7:31878000-							
,	31887000 /							
Rat 87 /	chr10:94234000-	9001 /						
Mouse 77	94238000	4001	Intergenic	Ancestral	0	0		None
	chrX:123931000-							
Rat 91	123946000	15001	Intergenic	Ancestral	>2	0	Rat 71	None
!	chrX:152895000-							
/	152918000 /							
Rat 92 /	chrX:62174000-	23001 /						
Mouse 79	62206000	32001	Intergenic	Ancestral	0	0		None
	chr2:44320000-	27004						
Rat 94	44347000	27001	Intergenic	Ancestral	0	0		None
•	chr2:121139000-							
~ ~~ /	121146000 /	7001 /						
Rat 95 /	chr3:34676000-	7001 /		, , ,				**
Mouse 47	34687000	11001	Intergenic	Ancestral	0	0		None
Mouse 25	chr8:90782000-	13001	Intergenic	Ancestral	1	0	Rat 25	None

	90795000						
	chr1:57602000-						
Mouse 82	57611000	9001	Intergenic	Ancestral	0	0	None
	chr13:20869000-						
Mouse 90	20871000	2001	Intergenic	Ancestral	0	0	None
	chr10:84029000-						
Mouse 93	84037000	8001	Intergenic	Ancestral	0	0	None
							Interchromosomal
							movement of
	chr5:112507000-						flanking genes on
Mouse 7	112564000	57001	Intergenic	Ancestral	0	0	one side of cluster
	chr17:47253000-						
Mouse 62	47256000	3001	Intergenic	Ancestral	0	0	None
	chr1:124891000-						
	124959000 /						
Rat 11 /	chr7:65734000-	68001 /			_		
Mouse 11	65810000	76001	Intergenic	Ancestral	0	0	None
_	chr20:22761000-						
Rat 89	22765000	4001	Intergenic	Ancestral	0	0	None
	chr8:115820000-						
Mouse 87	115829000	9001	Intergenic	Ancestral	0	0	None
	chr4:165701000-						
-	165712000 /	11001					Inversion of
Rat 66 /	chr6:128462000-	11001 /	Overlapping				flanking genes on
Mouse 55	128474000	12001	gene(s)	Ancestral	0	0	one side of cluster
	chr3:76817000-						
D + 2 /	76892000 /	75001 /					
Rat 3 /	chr2:92374000-	75001 /	Overlapping	A . 1			N.T.
Mouse 4	92462000	88001	gene(s)	Ancestral	0	0	None
Rat 4 /	chr6:122540000-	84001 /	Overlapping	Ancestral	0	0	None

Mouse 8	122624000 / chr12:95876000- 95950000	74001	gene(s)					
-	chr12:44134000-							
	44189000 /							Inversion of
Rat 13 /	chr5:114033000-	55001 /	Overlapping					flanking genes on
Mouse 18	114076000	43001	gene(s)	Ancestral	0	0		one side of cluster
	chr18:63622000-		8(-)					
	63658000 /							Multiple
Rat 14 /	chr18:67419000-	36001 /	Overlapping					inversions of
Mouse 3	67485000	66001	gene(s)	Ancestral	0	0		flanking genes
								Inversion of
	chr20:13186000-		Overlapping					flanking genes on
Rat 15	13223000	37001	gene(s)	Ancestral	0	1	Mouse 19	one side of cluster
							Rat 5 / Mouse 6,	
							Rat 24 /Mouse 41,	
							Rat 32, Rat 45, Rat	
							52, Rat 53, Rat 55	
	chr3:115118000-						/ Mouse 58, Rat 72, Rat 73, Rat 85	
	115142000 /						/2, Kat /3, Kat 83 / Mouse 68/89,	Inversion of
Rat 21 /	chr2:127432000-	24001 /	Overlapping				Mouse 51, Mouse	flanking genes on
Mouse 46	127445000	13001	gene(s)	Ancestral	1	1	63	one side of cluster
	chr4:122403000-		8(-)		_			
	122440000 /							Inversion of
Rat 22 /	chr6:88042000-	37001 /	Overlapping					flanking genes on
Mouse 40	88069000	27001	gene(s)	Ancestral	0	0		one side of cluster
	chr20:29911000-							
	29965000 /							
Rat 26 /	chr10:62171000-	54001 /	Overlapping					
Mouse 23	62224000	53001	gene(s)	Ancestral	0	0		None

Rat 27 /	chr7:116628000- 116678000 / chr15:78725000-	50001 /	Overlapping					
Mouse 22	78767000	42001	gene(s)	Ancestral	0	0		None
	chr2:221181000- 221209000 /						Rat 5 / Mouse 6, Rat 21 / Mouse 46, Rat 24 / Mouse 41, Rat 32, Rat 45, Rat 52, Rat 53, Rat 72, Rat 73, Rat 85 / Mouse 68/89,	
Rat 55 /	chr3:124237000-	28001 /	Overlapping				Mouse 51, Mouse	
Mouse 58	124263000	26001	gene(s)	Ancestral	1	1	63	None
Rat 70	chr13:73630000- 73667000	37001	Overlapping gene(s)	Ancestral	0	0		None
	chrUn:15394000-		Overlapping					
Rat 75	15406000	12001	gene(s)	Ancestral	0	0		None
	chr12:27425000-		Overlapping					
Rat 77	27443000	18001	gene(s)	Ancestral	0	1	Mouse 80	None
	chr7:94716000-		Overlapping					
Rat 78	94745000	29001	gene(s)	Ancestral	0	0		None
	chr1:92677000-		Overlapping					
Rat 82	92707000	30001	gene(s)	Ancestral	0	0		None
	chr9:90967000- 90984000 /							
Rat 83 /	chr1:91445000-	17001 /	Overlapping					
Mouse 71	91467000	22001	gene(s)	Ancestral	0	0		None
	chr8:47138000-							
	47143000 /							
Rat 88 /	chr9:44078000-	5001 /	Overlapping					
Mouse 49	44086000	8001	gene(s)	Ancestral	0	0		None

	chr15:187000-	İ	Ovenlannina					[
Rat 96	217000	30001	Overlapping gene(s)	Ancestral	0	0		None
Kat 90	chr5:63093000-	30001	Overlapping	Alicestrai	0	U		None
Rat 98	63106000	13001	gene(s)	Ancestral	0	0		None
Kat 90	chr10:84482000-	13001	gene(s)	Ancestrai	0	U		None
	84488000 /							Interchromosomal
Rat 100 /	chr11:95874000-	6001 /	Overlapping					movement of
Mouse 94	95880000	6001	gene(s)	Ancestral	0	0		flanking gene
Mouse 94	chr5:148721000-	0001	Overlapping	Ancestrai	0	0		manking gene
Mouse10	148766000	45001	gene(s)	Ancestral	0	0		None
Wiouscio	140700000	43001	gene(s)	Alleestrai	0	U		Interchromosomal
								movement of
	chr14:21743000-		Overlapping					flanking genes on
Mouse 12	21796000	53001	gene(s)	Ancestral	1	0	Rat 18	one side of cluster
1110050 12	chr10:75491000-	33001	Overlapping	7 Hicestra	1		1441 10	one side of cluster
Mouse 19	75537000	46001	gene(s)	Ancestral	1	0	Rat 15	None
			8(=)				Rat 5 / Mouse 6,	- 1,5555
							Rat 21 / Mouse 46,	
							Rat 24 / Mouse 41,	
							Rat 32, Rat 45, Rat	
							52, Rat 53, Rat 55	
							/ Mouse 58, Rat	
							72, Rat 73, Rat 85	
	chr14:22009000-		Overlapping				/ Mouse 68/89,	
Mouse 51	22038000	29001	gene(s)	Ancestral	1	1	Mouse 63	None
	chr10:127189000-		Overlapping					
Mouse 52	127202000	13001	gene(s)	Ancestral	0	0		None
	chr7:27076000-		Overlapping					
Mouse 53	27084000	8001	gene(s)	Ancestral	0	0		None
Mouse 56	chr11:108102000-	5001	Overlapping	Ancestral	0	0		Large insertion

	108107000		gene(s)					into intron of overlapping gene
	chr5:134131000-		Overlapping					
Mouse 57	134139000	8001	gene(s)	Ancestral	0	0		None
_	chr9:51827000-		Overlapping					
Mouse 69	51831000	4001	gene(s)	Ancestral	0	0		None
	chr15:73176000-		Overlapping					
Mouse 73	73188000	12001	gene(s)	Ancestral	0	0		None
	chr5:101021000-		Overlapping					
Mouse 74	101040000	19001	gene(s)	Ancestral	0	0		None
	chr15:80000000-		Overlapping					
Mouse 76	80039000	39001	gene(s)	Ancestral	0	0		None
	chr8:109603000-		Overlapping					
Mouse 78	109621000	18001	gene(s)	Ancestral	0	0		None
	chr5:129378000-		Overlapping					
Mouse 80	129393000	15001	gene(s)	Ancestral	1	0	Rat 77	None
	chr10:60946000-		Overlapping					
Mouse 83	60952000	6001	gene(s)	Ancestral	0	0		None
	chr6:92248000-		Overlapping					
Mouse 88	92270000	22001	gene(s)	Ancestral	0	0		None

^{*}All coordinates are given according to the UCSC Genome Browser (mouse build mm7, rat build rn3).