

Supplementary Table 6: Copy-number polymorphic sites and genes (Hidden Markov Model algorithm)

Type	Chr	Start	End	C57BL											Gene	Product	Full gene	Hybrid CNV			
				C57 BL/10J	DBA /2J	A/J	CAS T/EiJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	DDY/ JclSid SeyFr kJ	C57B L/6By NZO/ HiLtJ					CZE NOD/ LtJ	C57B R/cd EiJ	
gain	chr1	21332193	21344675														1	<i>Ndg1</i>	Nur77 downstream gene 1	yes	
																		<i>BC09938</i>			
gain	chr1	21349713	21369921															1	hypothetical protein LOC433278	yes	
gain	chr1	42663802	42670732						1												
gain	chr1	84832060	84862539						1												
gain	chr1	84864899	84884810						1												
gain	chr1	84886522	84922043						1												
gain	chr1	84946761	84977975						1									<i>A530032</i>	SP140 nuclear body protein family member		
gain	chr1	84991402	85007011						1									<i>D15Rik</i>			
gain	chr1	85008456	85073458						1												
gain	chr1	85075179	85113100						1									<i>EG66537</i>			
																		8	predicted gene, EG665378	yes	
gain	chr1	85117634	85133018						1									<i>C130026l</i>	SP140 nuclear body protein family member isoform		
																		<i>21Rik</i>			
gain	chr1	85134453	85225900						1									<i>C130026l</i>	SP140 nuclear body protein family member isoform		
gain	chr1	87227215	87265855						1												
gain	chr1	87273535	87295364						1												
gain	chr1	87310225	87359440						1												
gain	chr1	87366898	87412737						1												
gain	chr1	87423276	87445130						1									<i>Sp110</i>	Sp110 nuclear body protein		
																		<i>Sp110</i> ,			
gain	chr1	87446320	87486393						1									<i>Sp140</i>	Sp110 nuclear body protein, SP140 nuclear body protein family member		
gain	chr1	87487095	87494100						1									<i>Sp140</i> ,			
gain	chr1	89871571	89881878															<i>Sp100</i>	SP140 nuclear body protein family member, nuclear antigen Sp100		
gain	chr1	89894109	89899876															<i>Sp100</i>			
gain	chr1	93812082	93818081																		
gain	chr1	95683469	95708219						1									<i>Hdac4</i>	histone deacetylase 4		
																		<i>Gal3st2</i>	galactose-3-O-sulfotransferase 2	yes	
gain	chr1	95741304	95753558						1									<i>D2hgdh</i>	D-2-hydroxyglutarate dehydrogenase		
gain	chr1	95756689	95774437			-1	-1	1	-1	-1											yes
gain	chr1	95786221	95809500			-1		1	-1	-1											yes
gain	chr1	95813340	95821936						1												
gain	chr1	95824607	95831052						1									<i>EG61959</i>			
gain	chr1	121269501	121275472						1									7	hypothetical protein LOC619597		
gain	chr1	141704449	141713581			1	1														
gain	chr1	141932755	141947156			1	1														
gain	chr1	175600989	175607940															<i>Cfh</i>	complement component factor H		
gain	chr1	175615399	175622135															<i>Ifi204</i>	interferon activated gene 204		
gain	chr1	175630745	175643978			1			1												
gain	chr1	175659555	175686177			1			1												
gain	chr1	175697718	175703456																		
gain	chr1	175707585	175718342																		yes

Type	Chr	Start	End	C57BL/6J DDY/ PREP 129S JclSid C57B CZE C57B													Gene	Product	Full gene	Hybrid CNV		
				BL/10J	DBA/2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	#3757 9	1/Svl mJ	SeyFr kJ	L/6By J	NZO/ HiLtJ	NOD/ LtJ					CHI/ EIJ	R/cd J
gain	chr1	175745981	175752420														1	<i>Mnda</i>	myeloid cell nuclear differentiation antigen			
gain	chr1	175753412	175768302			1				1							1	1	<i>Ifi203</i>	interferon activated gene 203 isoform 1		
gain	chr1	175770900	175783858			1				1							1	1	<i>Ifi203</i>	interferon activated gene 203 isoform 1		
gain	chr1	175785566	175792019							1							1	1				
gain	chr1	175793460	175820348			1				1							1	1	<i>Ifi202b</i>	interferon activated gene 202B	yes	
gain	chr1	179640580	179647300															1				
gain	chr1	179650640	179663094				1	1										1				
gain	chr1	179692619	179699616				1	1	1									1				
gain	chr1	179700545	179717829				1	1	1									1				
gain	chr1	179772806	179781210				1	1	1									1				
gain	chr1	179782924	179788679				1															
gain	chr1	179824834	179837296				1	1	1									1	<i>EG54539</i> 1	hypothetical protein LOC545391		
gain	chr1	179883585	179904475															1	<i>EG54539</i> 1	hypothetical protein LOC545391		
gain	chr1	179932563	179938547				1	1	1									1				
gain	chr1	179940752	179948417					1										1				
gain	chr10	21721077	21727556	1	1					1	1	1						1				
gain	chr10	21730246	21740320	1														1				
gain	chr10	21844641	21859791							1	1							1				yes
gain	chr10	21860721	21909716				1	-1										1	<i>Raet1a</i> , <i>Raet1c</i> , <i>Raet1e</i>	retinoic acid early transcript 1, alpha, retinoic acid early transcript gamma, retinoic acid early transcript 1E	yes	yes
gain	chr10	21911168	21931291															1				yes
gain	chr10	21941370	21947360															1				
gain	chr10	21952887	21972633				1	-1	1	1								1				yes
gain	chr10	22032619	22048269				1	-1,-1	1	1								1				yes
gain	chr10	22048942	22078708							-1	1	1						1	<i>Raet1d</i> , <i>Raet1a</i> , <i>Raet1b</i>	retinoic acid early transcript delta, retinoic acid early transcript 1, alpha, retinoic acid early transcript beta	yes	yes
gain	chr10	22080623	22121199							-1								1				yes
gain	chr10	22131741	22137549															1				
gain	chr10	43897899	43907262							1								1				
gain	chr10	43917103	43929057	1			1			1	1	1	1	1	1	1	1	1				
gain	chr10	77052200	77058909							1									<i>Sumo3</i>	SMT3 (supressor of mif two, 3) homolog 1		
gain	chr10	99756608	99811328							1								1				
gain	chr10	103581724	103601631															1				
gain	chr10	128426606	128451291																			
gain	chr11	3025756	3052877	-1,-1	-1	-1,-1	1	-1,-1	-1,-1									1	<i>4933439C</i> <i>20Rik</i> , <i>Sfi1</i>	hypothetical protein LOC236604, Sfi1 homolog, spindle assembly associated	yes	yes
gain	chr11	21403459	21408934							1									<i>4932414J</i> <i>04Rik</i>	hypothetical protein LOC237694	yes	
gain	chr11	27745580	27754218																			
gain	chr11	27765256	27776976															1				

Type	Chr	Start	End	C57BL										Gene	Product	Full gene	Hybrid CNV			
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	DDY/ JclSid SeyFr kJ					C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ	C57B R/cd J
gain	chr11	27787582	27799099						1	1						1				
gain	chr11	27802663	27811562							1	1					1				
gain	chr11	46386021	46392749					1												
gain	chr11	46471220	46494023					1										<i>Dppa1</i>	developmental pluripotency associated 1	
gain	chr11	50874090	50880291					1												
gain	chr11	50885337	50893019													1				
gain	chr11	60376798	60491803				1	-1	1				1			1		1		yes
gain	chr11	60495363	60511702						1				1			1		1		
gain	chr11	70970091	70977018														1	<i>Nlrp1b</i>	NACHT-, LRR-, and PYD-containing protein 1	
gain	chr11	86197284	86203789					1												
gain	chr11	86234039	86240004					1												
gain	chr11	115650044	115656564						1									<i>Lgl2</i>	lethal giant larvae homolog 2	
gain	chr12	3023618	3030116	1		1							1		1	1	1			
gain	chr12	18179859	18219186												1			<i>EG24529</i> 7	hypothetical protein LOC245297	
gain	chr12	18227354	18251609	-1	-1										1		-1	<i>EG24529</i> 7	hypothetical protein LOC245297	yes
gain	chr12	18273462	18304375											1	1					
gain	chr12	18382879	18406414				1		1					1	1	1				
gain	chr12	18408335	18439504				1			1			1	1	1	1				
gain	chr12	18469862	18516172				1	-1					1	1	1	1				yes
gain	chr12	18525087	18533939										1	1	1	1				
gain	chr12	18538769	18553391				-1		-1			-1	1	1	1	1		-1		yes
gain	chr12	18582190	18592963										1	1	1	1				
gain	chr12	18755680	18768686												1	1				
gain	chr12	18783793	18794121												1	1				
gain	chr12	18842320	18875756											1	1	1				
gain	chr12	18914043	18945495											1	1	1				
gain	chr12	18962765	18976443											1	1	1				
gain	chr12	18995904	19051109	-1	-1		-1						1	1	1	1		-1		yes
gain	chr12	19092883	19111327											1	1	1				
gain	chr12	19114479	19146159	-1	-1		-1							1	1	1		-1		yes
gain	chr12	19229884	19241450											1	1	1				
gain	chr12	19260165	19284844											1	1	1				
gain	chr12	19318445	19378723	-1	-1,-1		-1,-1							1	1	1		-1,-1		yes
gain	chr12	19384483	19425758				-1		-1			-1,-1		1	1	1		-1,-1		yes
gain	chr12	19436563	19455772						-1					1	1	1				
gain	chr12	19652289	19679403				-1							1	1	1		-1		yes
gain	chr12	19766318	19774923											1	1	1				
gain	chr12	19820570	19832089											1	1	1				
gain	chr12	19889915	19899730											1	1	1				
gain	chr12	20089825	20100402											1	1	1				
gain	chr12	20172871	20190886						1					1	1	1				
gain	chr12	20354047	20369431	-1	-1		-1							1	1	1		-1		yes
gain	chr12	20383606	20393919												1	1				
gain	chr12	20410458	20418172											1	1	1				
gain	chr12	20485324	20533351	-1										1	1	1		-1		yes

Type	Chr	Start	End	C57BL										Gene	Product	Full gene	Hybrid CNV		
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	JclSid DDY/ SeyFr kJ					C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ
gain	chr12	20536928	20547978									1	1						
gain	chr12	20557606	20585645									1	1						
gain	chr12	20879202	20895032									1	1						
gain	chr12	21057519	21069035									1	1						
gain	chr12	21100705	21118493									1	1						
gain	chr12	21124689	21136447									1	1						
gain	chr12	21248796	21272785									1							
gain	chr12	21846113	21855472									1	1						
gain	chr12	22039376	22059044									1	1						
gain	chr12	22105574	22115938										1						
gain	chr12	22146611	22159356									1	1						
gain	chr12	22168244	22183102										1						
gain	chr12	22253684	22275057									1	1						
gain	chr12	22324459	22367935									1	1						
gain	chr12	22519347	22537846										1						
gain	chr12	22609812	22640299									1	1						
gain	chr12	22800993	22819493										1						
gain	chr12	22847094	22853812									1							
gain	chr12	22871307	22899170									1	1						
gain	chr12	22918862	22938524									1	1						
gain	chr12	22957942	23023244	-1	-1							1	1			-1			yes
gain	chr12	23031908	23044140										1						
gain	chr12	23268511	23281969									1	1						
gain	chr12	23566138	23576447									1	1						
gain	chr12	23658274	23691864	-1	-1		-1					1	1			-1			yes
gain	chr12	23696426	23706786									1	1						
gain	chr12	23734372	23805381	-1	-1		-1			-1			1			-1			yes
gain	chr12	23863015	23876429									1	1						
gain	chr12	24022190	24039672									1	1						
gain	chr12	24061074	24085056									1	1						
gain	chr12	24091037	24117464										1						
gain	chr12	24127791	24142648									1	1						
gain	chr12	24155830	24166667										1						
gain	chr12	24169512	24213239	-1	-1		-1					1	1			-1			yes
gain	chr12	24303925	24354579									1	1						
gain	chr12	24471211	24487281										1						
gain	chr12	24581631	24589531									1	1						
gain	chr12	24622890	24634197										1						
gain	chr12	24992019	25013606				1					1	1						
gain	chr12	25022952	25049112									1	1			1			
gain	chr12	56054023	56060462										1						17000471 17Rik hypothetical protein LOC73385
gain	chr12	56118070	56124324										1						17000471 17Rik hypothetical protein LOC73385
gain	chr12	56145179	56152399										1						
gain	chr12	56161780	56184764										1						
gain	chr12	88425857	88437153				1				1					1			
gain	chr12	88467112	88490152				1									1	1		
gain	chr12	88492808	88499537			1	1				1					1		Oog1 oogenesis 1	yes



		C57BL																Full	Hybrid			
		C57					C57BL					CZE			C57B	Gene	Product	gene	CNV			
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gain	chr12	114980808	114987492				1							1		1						
gain	chr12	114990874	114999267				1															
gain	chr12	115091831	115097874						1			1										
gain	chr12	115114416	115121136									1										
gain	chr12	115124267	115131714		1	1		1	1			1	1				1					
gain	chr12	115151146	115159316		1	1	1	1					1				1					
gain	chr12	115171315	115186630		1	1	1	1	1			1	1		1							
gain	chr12	115188115	115196737		1	1	1	1				1	1				1					
gain	chr12	115229392	115238979		1	1	1	1	1			1	1				1					
gain	chr12	115248109	115258672		1	1	1					1	1				1					
gain	chr12	115263237	115288576		1	1	1	1	1			1	1				1					
gain	chr12	115290714	115304660		1	1	1	1	1			1	1				1					
gain	chr12	115313056	115320946		1			1	1			1					1					
gain	chr12	115321896	115351665		1	1	1	1	1			1	1									
gain	chr12	115355994	115366789		1	1	1	1	1			1	1									
gain	chr12	115509889	115519951		1	1		1	1			1	1				1	1				
gain	chr12	115522389	115536027			1	-1										1					yes
gain	chr12	115557384	115567950			1																
gain	chr12	115575635	115581141														1					
gain	chr12	115591747	115609243			1			1			1					1					
gain	chr12	115611668	115621706			1			1			1					1	1				
gain	chr12	115629181	115656024			1			1			1					1	1				
gain	chr12	115656774	115666101			1			1			1					1					
gain	chr12	115670670	115680549			1						1										
gain	chr12	115692540	115700225			1			1			1					1					
gain	chr12	115735939	115748229			1											1					
gain	chr12	115749663	115764269			1											1					
gain	chr12	115771703	115783749			1																
gain	chr12	115805105	115820196			1			1			1					1					
gain	chr12	115836030	115843732			1			1			1					1					
gain	chr12	115894116	115911861			1			1			1					1	1				
gain	chr12	115915221	115924349			1			1			1					1	1				
gain	chr12	115933227	115940914						1			1										
gain	chr12	115942623	115949345			1			1			1						1				
gain	chr12	115950032	115968786			1			1			1					1	1				
gain	chr12	115969741	115976917			1			1			1					1	1				
gain	chr12	115994117	116035145		1	1		1	1			1	1				1	1				
gain	chr12	116040178	116050760			1			1			1					1	1				
gain	chr12	116060543	116072983		1	1			1			1			1		1	1				
gain	chr12	116073738	116083301						1			1										
gain	chr12	116084522	116103009		1	1		1	1			1	1				1	1				
gain	chr12	116103732	116120763			1			1			1										
gain	chr12	116132306	116151221			1						1										
gain	chr12	116189910	116202848			1			1			1					1	1				
gain	chr12	116203548	116210508			1			1			1						1				
gain	chr12	116211943	116233572			1			1			1						1				
gain	chr12	116240268	116247018			1			1			1					1	1				
gain	chr12	116247744	116257339			1			1			1					1	1				
gain	chr12	116258777	116275823		1	1		1	1			1	1				1	1				

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gain	chr12	116280349	116286344							1			1					1			
gain	chr12	116295726	116317329				1						1					1			
gain	chr13	12791408	12797405										1								
gain	chr13	12817105	12824316										1								
gain	chr13	12867004	12873763										1								
gain	chr13	13001612	13007125										1								
gain	chr13	22920797	22926514		1	1				1					1						
gain	chr13	22931835	22940243		1	1				1					1						
gain	chr13	22946711	22967333		1										1						
gain	chr13	49891173	49920675						1												
gain	chr13	49964169	49970129						1												
gain	chr13	50008289	50014540						1												
gain	chr13	50022971	50035430						1												
gain	chr13	50335893	50343593						1												
gain	chr13	50843937	50849670						1												
gain	chr13	50867181	50874135						1												
gain	chr13	61756461	61764161																	1	
gain	chr13	61767721	61775426																	1	
gain	chr13	61779723	61785761																	1	
gain	chr13	61796559	61803767																	1	
gain	chr13	61826329	61849127										-1	-1						1	
gain	chr13	61851769	61864684																	1	
gain	chr13	61876962	61883687						1											1	
gain	chr13	62008716	62015155																	1	
gain	chr13	62086700	62114307						1											1	
gain	chr13	62115258	62136117						1											1	
gain	chr13	62184608	62193757																	1	
gain	chr13	62246298	62255188																	1	
gain	chr13	62396095	62405701																	1	
gain	chr13	62409027	62417947																	1	
gain	chr13	62426829	62445036																	1	
gain	chr13	62451504	62458020												1		1			1	
gain	chr13	62479146	62507422																	1	
gain	chr13	62518026	62524737						1		1									1	
gain	chr13	62571268	62579950																	1	
gain	chr13	62635621	62641616																	1	
gain	chr13	62687422	62693901																	1	
gain	chr13	62774307	62780590																	1	
gain	chr13	65323953	65348444		1	1			1	1					1		1	1		1	
gain	chr13	65350604	65382238		1	1			1	1					1		1	1		1	
gain	chr13	65383716	65429291		1	1			1	1					1	1	1	1		1	
gain	chr13	65431470	65456634		1	1			1	1					1	1	1			1	
gain	chr13	65465041	65484275		1	1			1	1					1	1	1			1	
gain	chr13	65488085	65517881		1	1			1	1					1	1	1			1	
gain	chr13	65521677	65544261		1	1			1	1					1	1	1			1	
gain	chr13	65545676	65573314		1	1			1	1					1	1	1			1	
gain	chr13	65574281	65593436		1	1			1	1					1	1	1			1	
gain	chr13	65594201	65604016		1	1			1	1					1	1	1			1	
gain	chr13	65614795	65639994		1	1			1	1					1	1	1			1	





Type	Chr	Start	End	C57BL												Gene	Product	Full gene	Hybrid CNV	
				C57 BL/DBA			CAS BPH BALB			C57BL #3757			C57B							CZE
				10J	/2J	A/J	T/EIJ	/2J	/cByJ	KS/J	9	1/Svl	kJ	J	HiLkJ	LtJ	EiJ	J		
gain	chr14	40172388	40217970				1								1		1			
gain	chr14	40244631	40257615												1		1			
gain	chr14	40360287	40399692				1								1	1				
gain	chr14	40471661	40483682				1								1		1			
gain	chr14	40640616	40659094				1								1	1	1			
gain	chr14	40837418	40866234				1								1	1	1			
gain	chr14	41132856	41142000				1								1		1			
gain	chr14	41216169	41231532				1								1		1			
gain	chr14	41441500	41473692				1								1	1				
gain	chr14	41636737	41663420				1								1	1	1			
gain	chr14	41766097	41790602				1								1	1				
gain	chr14	41871533	41896971				1								1	1				
gain	chr14	41970633	42004014				1								1					
gain	chr14	42045510	42065697												1	1	1			
gain	chr14	42129510	42159248				1													
																		<i>1700001F</i>		
gain	chr14	42207038	42228848				1								1	1		<i>09Rik</i>	hypothetical protein LOC71826	yes
gain	chr14	42410536	42422557				1								1		1			
gain	chr14	42423771	42489254				1								1	1				
gain	chr14	42586494	42597729														1			
gain	chr14	42619594	42633510				1										1			
gain	chr14	42680301	42697568														1			
gain	chr14	42819935	42826186														1			
gain	chr14	42892168	42897950										1							
																		<i>4930503E</i>		
gain	chr14	43047217	43056103				1										1	<i>14Rik</i>	hypothetical protein LOC74954	
																		<i>BC06123</i>		
gain	chr14	43421206	43429140				1										1	<i>7</i>	hypothetical protein LOC385138	yes
gain	chr14	49395300	49408943														1	<i>Olf741</i>	olfactory receptor 741	yes
gain	chr14	50500121	50506376				1		1	1		1		1		1				
gain	chr14	50515743	50523888				1			1		1		1		1				
gain	chr14	50550760	50560623				1													
																		<i>EG54504</i>		
gain	chr14	50632371	50638847				1										1	<i>7</i>	hypothetical protein LOC545047	
gain	chr14	55957117	55968618				1													
gain	chr14	58210467	58216662														1			
gain	chr14	58246901	58254840														1	<i>Phf11</i>	PHD finger protein 11	
gain	chr14	58275939	58282424														1			
																		<i>D14Ert6</i>		
gain	chr14	58290860	58304051														1	<i>68e</i>	hypothetical protein LOC219132	
gain	chr15	3100661	3113865														1			
																		<i>Mlze</i>		
gain	chr15	63603290	63609049				1										1	<i>Mlze</i>	melanoma-derived leucine zipper, extra-nuclear	
																		<i>Mlze</i>		
gain	chr15	63629435	63636602														1	<i>Mlze</i>	melanoma-derived leucine zipper, extra-nuclear	
gain	chr15	63648361	63677445														1	<i>A1987692</i>	hypothetical protein LOC331063	yes
																		<i>9930109F</i>		
gain	chr15	63679130	63711984														1	<i>21Rik</i>	hypothetical protein LOC270328	yes

Type	Chr	Start	End	C57BL/6J DDY/ PREP 129S JclSid C57B CZE C57B																Gene	Product	Full gene	Hybrid CNV
				BL/10J	DBA/2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	#3757 9	1/Svl mJ	SeyFr kJ	L/6By J	NZO/ HiLtJ	NOD/ LtJ	CHI/ EiJ	R/cd J					
gain	chr15	63713404	63723278															1					
gain	chr15	63726614	63741004															1					
gain	chr15	63745844	63752281															1					
gain	chr15	74823150	74834917																1	<i>Ly6a</i>	lymphocyte antigen 6 complex, locus A		
gain	chr15	74886313	74904058							1													
gain	chr15	74959511	74965506							1													
gain	chr15	75288762	75331003							1													
gain	chr15	77457314	77462796						1						1		1	1					
gain	chr15	78168888	78175602							1										<i>Csf2rb1</i>	colony stimulating factor 2 receptor, beta 1,		
gain	chr15	82216237	82224389																1				
gain	chr15	82278280	82284745																1	<i>Cyp2d9</i>	cytochrome P450, family 2, subfamily d,	yes	
gain	chr16	3008725	3015216							1													
gain	chr16	3031539	3057723																				
gain	chr16	3110515	3120100																				
gain	chr16	3122288	3128747																				
gain	chr16	3172439	3177971																				
gain	chr16	3258062	3270759																				
gain	chr16	3364141	3371086																				
gain	chr16	3390775	3409468																				
gain	chr16	30017973	30023721																				
gain	chr16	30060661	30066433																				
gain	chr16	30160735	30167498																				
gain	chr16	36074682	36081635																				
gain	chr17	6175772	6190159																1	<i>Stfa2l1</i>	stefin A2 like 1	yes	
gain	chr17	6192094	6210795																1	<i>Tulp4</i>	tubby like protein 4		
gain	chr17	6256603	6275805																1	<i>Tulp4</i>	tubby like protein 4		
gain	chr17	6284708	6305612																1				
gain	chr17	6310365	6326963																1				
gain	chr17	6329827	6337773																1				
gain	chr17	6345208	6357884																1				
gain	chr17	6359606	6388157																1				
gain	chr17	6399406	6429888																1	<i>Tmem181</i>	G protein-coupled receptor 178		
gain	chr17	6430848	6446719																1	<i>Tmem181</i> , <i>Dynlt1</i>	G protein-coupled receptor 178, t-complex testis expressed 1	yes	
gain	chr17	6448850	6458970																1				
gain	chr17	6459931	6531405																1				
gain	chr17	6532125	6542246																1	<i>Sytl3</i>	synaptotagmin-like 3 isoform a	yes	
gain	chr17	6543176	6559243																1	<i>Sytl3</i>	synaptotagmin-like 3 isoform a,		
gain	chr17	6560963	6571491																1	<i>Sytl3</i>	synaptotagmin-like 3 isoform b		
gain	chr17	6764506	6770227																				
gain	chr17	6797146	6804351																				
gain	chr17	6807903	6820385																1	<i>Tagap1</i>	T-cell activation GTPase activating protein 1		

Type	Chr	Start	End	C57BL																Full gene	Hybrid CNV	
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	DDY/ JclSid SeyFr kJ	C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ	C57B CHI/ R/cd EIJ	Gene	Product				
gain	chr17	6828319	6834542																	<i>Rnaset2</i> , <i>Rnaset2b</i>	ribonuclease T2 isoform 2, ribonuclease T2B	yes
gain	chr17	6857806	6863563																			
gain	chr17	6888305	6911884																			
gain	chr17	7172540	7180484	1																<i>Tcp10a</i>	t-complex protein 10a	
gain	chr17	7185532	7197266	1																<i>Tcp10a</i> , <i>Tcp10b</i>	t-complex protein 10a, t-complex protein 10b	
gain	chr17	7205466	7215025																			
gain	chr17	7228725	7234744	1																		
gain	chr17	7780090	7786318																	<i>Rshl2a</i>	radial spokehead-like 2A	
gain	chr17	7797629	7807436																			
gain	chr17	7820677	7826909																			
gain	chr17	7954110	7959877																			
gain	chr17	7974992	7983138																	<i>Rnaset2b</i>	ribonuclease T2B	
gain	chr17	7997296	8006684																	<i>Fgfr1op</i>	Fgfr1 oncogene partner	
gain	chr17	12865930	12876214	1																		
gain	chr17	12906722	12913894	1																<i>Tcp10c</i>	t-complex protein 10c	
gain	chr17	12918493	12936228	1																<i>Tcp10c</i>	t-complex protein 10c	
gain	chr17	12945381	12953736																	<i>Unc93a</i>	unc-93 homolog A	
gain	chr17	12955221	12962860	1																<i>Unc93a</i>	unc-93 homolog A	
gain	chr17	12966948	12973895	1																<i>Unc93a</i>	unc-93 homolog A	
gain	chr17	12991453	13004395	1																		
gain	chr17	13021700	13034857	1																		
gain	chr17	13040168	13049059	1																		
gain	chr17	13056455	13069669	1																		
gain	chr17	13072579	13079020	1																		
gain	chr17	13080475	13122945	1																		
gain	chr17	13138556	13153908	1																		
gain	chr17	13156551	13185580	1																<i>Tcp10a</i>	t-complex protein 10a	
gain	chr17	13186795	13192300	1																		
gain	chr17	13199535	13225912	1																		
gain	chr17	13238140	13251618	1																		
gain	chr17	13254240	13283523	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			yes
gain	chr17	14697434	14758622																	<i>Phf10</i> , <i>9030025P</i> , <i>20Rik</i> , <i>Tcte3</i>	PHD finger protein 10, hypothetical protein LOC381062 isoform 1, t-complex-associated testis expressed 3 isoform	yes
gain	chr17	16665400	16684807	1																<i>BC00205</i> 9	hypothetical protein LOC213811	yes
gain	chr17	16696109	16712659	1	1																	
gain	chr17	16722041	16736436	1	1																	
gain	chr17	16737356	16771208	1	1	1														<i>BC01810</i> 1	hypothetical protein LOC449000	
gain	chr17	16781769	16849194	1	1	1	-1													<i>BC01810</i> 1, <i>Zfp97</i>	hypothetical protein LOC449000, zinc finger protein 97	yes

Type	Chr	Start	End	C57		CAS	BPH	BALB	C57BL	C57BL		129S	JclSid	C57B	CZE	C57B	Gene	Product	Full gene	Hybrid CNV
				BL/10J	DBA/2J					PREP/9	1/Svl/mJ									
gain	chr17	16851394	16864797	1	1						1				1					
gain	chr17	16869366	16897217	1					1		1				1					
gain	chr17	16902247	16932017	1	1			1	1		1				1					
gain	chr17	16935839	16942555						1											
gain	chr17	16946432	16961562	1	1				1		1									
gain	chr17	16970891	16980479	1	1				1		1					1				
																	<i>EG62685</i>			
gain	chr17	16987956	16999239	1		1		1	1		1				1	4	similar to zinc finger protein 709			
gain	chr17	17003998	17017232	1							1					1				
																	<i>EG62685</i>			
gain	chr17	17019353	17030155	1	1						1			1	1	4	similar to zinc finger protein 709			
gain	chr17	22240781	22252494	1	1	1		1	1		1			1	1					
gain	chr17	22253939	22273375	1	1	1		1	1		1			1	1					
gain	chr17	22274382	22289702	1	1	1		1	1		1			1	1					
gain	chr17	22295841	22307601	1	1	1		1			1			1	1					
gain	chr17	22309060	22334506	1	1	1		1	1		1			1	1					
gain	chr17	23017743	23025894																	
gain	chr17	23035708	23058531						-1											
gain	chr17	23070991	23076501																	
gain	chr17	23083237	23090416																	
gain	chr17	26934393	26989563				1	1	1		1									
gain	chr17	27008521	27023409						1		1									
gain	chr17	27024601	27033718	1			1	1	1		1			1	1		1			
gain	chr17	27034723	27063005	1			1	1	1		1			1	1		1			
gain	chr17	27064205	27084884	1			1	1	1		1			1	1		1			
gain	chr17	27085599	27093276	1			1	1	1		1			1	1		1			
gain	chr17	27094475	27102614											1	1					
gain	chr17	27103364	27114138											1	1					
gain	chr17	27116282	27130453	1			1	1	1		1			1	1		1			
gain	chr17	27131638	27157557	1			1	1	1		1			1	1		1	<i>Grm4</i>	glutamate receptor, metabotropic 4	
gain	chr17	27169322	27176279	1										1	1		1			
gain	chr17	30146797	30258190		1	1	1	1	1		1						<i>Btbd9</i>	BTB (POZ) domain containing 9		
gain	chr17	30259843	30297313		1	1	1	1	1		1									
gain	chr17	30348998	30356929		1	1	1	1	1		1									
gain	chr17	30358369	30369667		1	1	1	1	1		1						<i>Dnahc8</i>	dynein, axonemal, heavy chain 8		
gain	chr17	30370836	30392471		1	1	1	1	1		1						<i>Dnahc8</i>	dynein, axonemal, heavy chain 8		
gain	chr17	30394353	30427238		1	1	1	1	1		1						<i>Dnahc8</i>	dynein, axonemal, heavy chain 8		
gain	chr17	30429876	30470477		1	1	1	1	1		1						<i>Dnahc8</i>	dynein, axonemal, heavy chain 8		
gain	chr17	30472147	30510548		1	1	1	1	1		1						<i>Dnahc8</i>	dynein, axonemal, heavy chain 8		
gain	chr17	30511233	30551328		1	1	1	1	1		1						<i>Dnahc8</i>	dynein, axonemal, heavy chain 8		
gain	chr17	30552318	30561629		1	1	1	1	1		1						<i>Dnahc8</i>	dynein, axonemal, heavy chain 8		
gain	chr17	34363656	34366476						1				1							
gain	chr17	34917766	34923574						1				1							
gain	chr17	34931487	34937491		1		1	1	1								<i>H2-Q1</i>	histocompatibility 2, Q region locus 1		
gain	chr17	34959784	34965775										1							
gain	chr17	35077169	35084329												1		<i>H2-Q10</i>	histocompatibility 2, Q region locus 10	yes	
																	<i>EG54734</i>			
gain	chr17	35650972	35664916								1	1					7	H2-GS14-2 antigen		

		C57BL																				
		C57			CAS			C57BL			PREP			C57B			CZE			C57B		
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	BALB/cByJ	KS/J	#3757/9	129S1/Svl/mJ	JclSid/DDY/kJ	L/6By/J	NZO/HiLtJ	NOD/LtJ	CHI/EIJ	R/cd/J	Gene	Product	Full gene	Hybrid CNV
gain	chr17	35668511	35692972		-1		1		-1			1							<i>H2-BI</i>	histocompatibility 2, blastocyst	yes	yes
gain	chr17	35694446	35704243										1									
gain	chr17	35727845	35734570									1							<i>H2-T10, EG54734</i>	histocompatibility 2, T region locus 10, H2-GS14-2 antigen		
gain	chr17	35738395	35746789							1		1	1									
gain	chr17	35754209	35766235										1									
gain	chr17	35768165	35774171										1						<i>EG66797</i>	hypothetical protein LOC667977		
gain	chr17	35779454	35786903										1									
gain	chr17	35789504	35795978							1			1						<i>H2-T3</i>	histocompatibility 2, T region locus 3		
gain	chr17	35963536	35970000				1															
gain	chr17	38112936	38171487		1		1	1	1	1		1	1		1							
gain	chr17	38203614	38213955		1			1		1												
gain	chr17	38215900	38222818		1		1	1	1	1		1	1		1							
gain	chr17	38223552	38231475		1		1	1	1	1		1	1		1							
gain	chr17	38246583	38254052					1		1		1	1		1							
gain	chr17	38356624	38364512				1			1		1			1							
gain	chr17	38839615	38845355										1									
gain	chr17	38977613	38983845										1									
gain	chr17	39048298	39055981										1									
gain	chr17	39591658	39638912										1									
gain	chr17	39750377	39760220															1	<i>Crisp1</i>	cysteine-rich secretory protein 1		
gain	chr17	39771969	39784918															1	<i>Crisp1</i>	cysteine-rich secretory protein 1		
gain	chr18	3007841	3014032				1															
gain	chr18	3099510	3105255		1	1	1															
gain	chr18	3112945	3120620				1			1				1	1							
gain	chr18	3159997	3166212	1		1		1					1		1	1	1					
gain	chr18	60438562	60446684																			
gain	chr18	60477604	60484086																			
gain	chr18	60492024	60503789					1														
gain	chr19	3063232	3069010				1															
gain	chr19	3099682	3109293																			
gain	chr19	3111244	3118929																			
gain	chr19	3197686	3204142				1	1		1		1					1					
gain	chr19	3206814	3214965					1										1				
gain	chr19	3216187	3235127					1				1						1				
gain	chr19	9673516	9681449					1				1						1				
gain	chr19	12233550	12253000			-1		1	-1				-1									yes
gain	chr19	12291653	12305330					1														
gain	chr19	13576876	13588910																			
gain	chr19	13593673	13599478																			
gain	chr19	13628561	13634514				1															yes
gain	chr19	13647000	13653040																			
gain	chr19	13654483	13665729																			
gain	chr19	13684210	13690234				1															yes
gain	chr19	33815382	33834830																			

Type	Chr	Start	End	C57BL														Gene	Product	Full gene	Hybrid CNV			
				C57			CAS			C57BL			PREP		129S		CZE					C57B		
				BL/10J	DBA/2J	A/J	T/EiJ	BPH/2J	BALB/cByJ	KS/J	#3757/9	1/Svl/mJ	JclSid/kJ	C57B/L/6ByJ	NZO/HiLtJ	NOD/LtJ	CHI/EiJ					R/cd/J		
gain	chr19	39752432	39760583				1											9030012A 22Rik	cytochrome P450 2C40 family					
gain	chr19	39826841	39835733				1											1	Cyp2c40	cytochrome P450, family 2, subfamily c,				
gain	chr19	39961940	39974579				1																	
gain	chr19	40035516	40042039				1																	
gain	chr2	83739571	83804767	-1	-1				-1					-1				1	Zswim2	zinc finger, SWIM domain containing 2				
gain	chr2	88438723	88454602															1						
gain	chr2	88460849	88474517															1						
gain	chr2	145279066	145284574						1										Slc24a3	solute carrier family 24				
gain	chr2	151040897	151053636						1															
gain	chr2	174604896	174724144				1,-1						1,-1,-1					1				yes		
gain	chr2	174740032	174792811						1									1						
gain	chr2	174800467	174868909						1									1						
gain	chr2	175873123	175955984						1									1						
gain	chr2	175990001	176039219						1									1						
gain	chr2	176053879	176096035						1									1						
gain	chr2	176126036	176329728						1									1						
gain	chr2	176359729	176398386						1									1						
gain	chr2	176466563	176527253						1									1	2210418 O10Rik	hypothetical protein LOC76958 isoform 3	yes			
gain	chr2	176546965	176619937				-1,1											1				yes		
gain	chr2	176667459	176773851						1									1						
gain	chr2	176803852	176863139						1									1						
gain	chr2	176868903	176878523															1	2210418 O10Rik	hypothetical protein LOC76958 isoform 2	yes			
gain	chr2	176883065	176971656						1									1	2210418 O10Rik	hypothetical protein LOC76958 isoform 2				
gain	chr2	177011464	177071967						1									1						
gain	chr2	177083003	177215248						1									1,-1				yes		
gain	chr2	177222893	177406749	-1					1									1				yes		
gain	chr2	177442291	177603495						1									1	OTTMUS G000000 16571	hypothetical protein LOC433520	yes			
gain	chr2	177633496	177838254						1									1	LOC3295 75	hypothetical protein LOC329575	yes			
gain	chr2	177850737	177916460						1									1						
gain	chr2	177928505	178021341						1									1						
gain	chr3	15303571	15316546						1										LOC7518 64	SIRP beta 1 like 2				
gain	chr3	15528722	15544561	1					1															
gain	chr3	15562065	15568305						1															
gain	chr3	16044619	16055193						1															
gain	chr3	64418744	64426667																					
gain	chr3	64428829	64448307																					
gain	chr3	64450441	64501815																					
gain	chr3	64502780	64516935						1															
gain	chr3	64521977	64592062																					

Type	Chr	Start	End	C57BL											Gene	Product	Full gene	Hybrid CNV					
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	JclSid DDY/ SeyFr kJ	C57B L/6By NZO/ HiLtJ					CZE NOD/ LtJ	C57B CHI/ R/cd EIJ			
gain	chr3	64594208	64599722										1				1						
gain	chr3	64606196	64617274										1				1						
gain	chr3	64626824	64633813														1						
gain	chr3	64642461	64651347										1				1						
gain	chr3	64653023	64672940										1				1						
gain	chr3	64675346	64691194					-1					1				1		yes				
gain	chr3	64702472	64715867										1				1						
																			4930518C				
gain	chr3	64716837	64732450												1		1		23Rik hypothetical protein LOC319210				
																			4930518C				
gain	chr3	64733670	64755751										1				1		23Rik hypothetical protein LOC319210				
gain	chr3	64758115	64765112										1		1		1						
gain	chr3	64774446	64793911										1				1						
																			4933425				
																			M15Rik,				
gain	chr3	64804231	64814504														1		4930518C hypothetical protein LOC319217, 23Rik hypothetical protein LOC319210				
gain	chr3	91046525	91055759					1															
gain	chr3	91238140	91242237					1															
gain	chr3	91248224	91274637					1															
gain	chr3	91474219	91483818					1															
gain	chr3	91497020	91506366					1									1						
gain	chr3	91668248	91672617					1															
gain	chr3	91848501	91860056														1						
gain	chr3	93030261	93043432															1	Lce3c late cornified envelope 3C EG22957	yes			
gain	chr3	93153131	93160326			1	1			1	1								1	hypothetical protein LOC229571	yes		
gain	chr3	93161985	93178547			1	1	1	1										1				
gain	chr3	93694275	93711292			1	1	1	1										1	1			
gain	chr3	93712748	93730987			1	1		1	1									1	1			
gain	chr3	93737726	93751121			1	1	1	1										1				
gain	chr3	93757643	93769847			1	1		1	1											Tdpoz1 TD and POZ domain containing 1		
gain	chr3	93830347	93877632			1	1	1	1										1				
gain	chr3	93887204	93916960			1	1	1	1										1	1	Tdpoz3 TD and POZ domain containing 3	yes	
gain	chr3	93919136	93928004			1	1		1										1				
gain	chr3	93957072	93966902			1	1		1	1											1		
gain	chr3	94024024	94033138			1	1		1	1											1		
gain	chr3	94087843	94095806			1	1		1	1											1		
gain	chr3	94136334	94146401			1	1		1	1											1		
gain	chr3	94189878	94208080			1	1		1	1											1		
gain	chr3	94224209	94241944			1	1	1	1	1											1		
gain	chr3	94274366	94280570				1		1												1		
gain	chr3	94298829	94310080			1	1	1	1	1											1		
gain	chr3	94313725	94333168			1	1	1	1	1											1		
gain	chr3	94363847	94375508			1																	
gain	chr3	94815000	94822698			1																	
gain	chr3	94837808	94847680			1																	
gain	chr3	96420001	96429632				1		1												1		
gain	chr4	3060175	3066440					1		1											1	1	1



Type	Chr	Start	End	C57BL															Gene	Product	Full gene	Hybrid CNV
				C57			C57BL			C57B			CZE			C57B						
				BL/10J	DBA/2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	KS/J	PREP #3757	129S 1/Svl	JclSid SeyFr	C57B L/6By	NZO/ HiLtJ	NOD/ LtJ	CHI/ EiJ	R/cd				
gain	chr4	88226153	88273653		1		1	1	1	1	1		1		1		<i>Irfz</i>	interferon zeta	yes			
gain	chr4	101409648	101440083			1				1												
gain	chr4	113659400	113665186							1												
gain	chr4	113691359	113697146		1	1							1	1								
gain	chr4	121131997	121137959				1															
gain	chr4	122052170	122065819															1				
gain	chr4	122074719	122083811				1															
gain	chr4	122097995	122111416				1															
gain	chr4	122119108	122131131				1															
gain	chr4	136674802	136687036				1											1				
gain	chr4	136692085	136700739				1											1	<i>Ela3</i>	elastase 3B, pancreatic		
gain	chr4	142872825	142879340															1				
gain	chr4	142881490	142889384		1									1				1				
gain	chr4	142933283	142940516		1																	
gain	chr4	142956572	142965195		1		1							1				1				
gain	chr4	143038904	143048506				1											1				
gain	chr4	143049228	143083057		1		1							1				1	<i>OTTMUS G000000 10009, OTTMUS G000000 10328, LOC1955 55</i>	hypothetical protein LOC194227, hypothetical protein LOC381569	yes	
gain	chr4	143121192	143171685		1		1							1				1			hypothetical protein LOC195555	yes
gain	chr4	143220401	143231187											1								
gain	chr4	143296216	143313254				1															
gain	chr4	143403979	143411891				1															
gain	chr4	143454848	143467132		1		1							1				1	<i>Oog2</i>	oogenesin 2	yes	
gain	chr4	143471928	143478892		1		1											1				
gain	chr4	143490616	143510551		1		1											1				
gain	chr4	143521611	143529770				1															
gain	chr4	143555174	143571484				1															
gain	chr4	144242068	144248992				1															
gain	chr4	144654576	144684338				1	1						1	1			1				
gain	chr4	144692273	144722380		1		1	1						1	1			1				
gain	chr4	144727205	144743739				1	1										1				
gain	chr4	144757921	144764835				1															
gain	chr4	144771075	144787168				1											1				
gain	chr4	144789813	144829416				1	1						1	1			1				yes
gain	chr4	144834721	144847675		1																	
gain	chr4	144854605	144863521				1							1								
gain	chr4	144864236	144877899				1	1										1				
gain	chr4	144882480	144900477				1	1						1	1			1	<i>LOC4338 01</i>	hypothetical protein LOC433801	yes	
gain	chr4	144904082	144920153				1	1						1				1				
gain	chr4	144931426	144973685				1							1	1			1				
gain	chr4	145006563	145015923				1							1				1				
gain	chr4	145043033	145052880															1				

		C57BL																					
		C57			CAS BPH BALB			C57BL			PREP 129S JclSid C57B			CZE C57B									
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	/2J	/cByJ	KS/J	#3757	1/Svl	SeyFr	L/6By	NZO/	NOD/LtJ	CHI/EIJ	R/cd	Gene	Product	Full gene	Hybrid CNV	
gain	chr4	145063412	145069654																				
gain	chr4	145135684	145166123					1															
gain	chr4	145241957	145248692																				
gain	chr4	145260693	145269068																				
gain	chr4	145292108	145324759									1											
gain	chr4	145331972	145337957									1											
gain	chr4	145338937	145346849			1						1							1				
gain	chr4	145354774	145362940																				
gain	chr4	145371783	145380711																				
gain	chr4	145415727	145421745									1											
gain	chr4	145487188	145496762				1	1				1	1		1	1							
																				<i>OTTMUS</i>			
																				<i>G000000</i>			
gain	chr4	145501111	145516923				1	1				1	1				1			<i>10105</i>	hypothetical protein LOC627585	yes	
																				<i>MGC1178</i>			
																				46	hypothetical protein LOC626316	yes	
gain	chr4	145525069	145565184				1																
gain	chr4	145576958	145604549																				
gain	chr4	145611266	145639596									1						1	-1				yes
gain	chr4	145642717	145674591									1											
gain	chr4	145721890	145729072																				
gain	chr4	145787418	145798667				1	1				1											
gain	chr4	145808762	145831061				1	1															
gain	chr4	145848340	145941476									1						1	-1	<i>Rex2</i>	reduced expression 2	yes	yes
gain	chr4	145942427	145949376									1											
gain	chr4	145970526	145980587																				
gain	chr4	145989210	145996687																				
gain	chr4	146072535	146090978						1														
gain	chr4	146095053	146112345				1	1				1											yes
gain	chr4	146116206	146131777				1	1				1											
gain	chr4	146142351	146202830				1																
gain	chr4	146204520	146213392																				
gain	chr4	146218652	146240023									1											
gain	chr4	146247688	146258530																				
gain	chr4	146278696	146307974			-1																	yes
gain	chr4	146362410	146374185				1	1				1	1		1	1					1		
																				<i>OTTMUS</i>			
																				<i>G000000</i>			
gain	chr4	146420486	146443326									1	1				1		-1	<i>10673</i>	hypothetical protein LOC433804	yes	yes
																				<i>2610305D</i>			
gain	chr4	146444046	146463688				1	1				1	1		1	1				<i>13Rik</i>	hypothetical protein LOC112422	yes	
gain	chr4	146478350	146486285																				
gain	chr4	146491307	146502366																				
gain	chr4	146515784	146552766																				
gain	chr4	146559236	146575088																				
gain	chr4	146576493	146585383				1	1				1	1										
gain	chr4	146589248	146605776				1	1				1	1										
gain	chr4	146616352	146625005																				
gain	chr4	146632208	146655693										1										
gain	chr4	148453564	148462888				1													<i>Clstn1</i>	calsyntenin 1		



Type	Chr	Start	End	C57BL														Gene	Product	Full gene	Hybrid CNV	
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	#3757 9	129S 1/Svl mJ	JclSid DDY/ SeyFr kJ	C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ	C57B R/cd	R/cd					
gain	chr5	121130895	121138615							1								<i>Oas1h, Oas1g</i>	2'-5' oligoadenylate synthetase 1H, 2'-5' oligoadenylate synthetase 1G			
gain	chr5	121146731	121166918							1								<i>Oas1g, Oas1a</i>	2'-5' oligoadenylate synthetase 1G, 2'-5' oligoadenylate synthetase 1A			
gain	chr5	138077499	138089223							1						-1		<i>Pilrb1</i>	paired immunoglobulin-like type 2 receptor beta	yes	yes	
gain	chr5	138092632	138101492							1								<i>Pilrb2</i>	paired immunoglobulin-like type 2 receptor beta 2	yes		
gain	chr6	3051863	3058356								1				1	1	1					
gain	chr6	3076831	3089106												1							
gain	chr6	3262390	3268388	1														1				
gain	chr6	3292819	3298829							1												
gain	chr6	42947581	42962454								1						1					
gain	chr6	47102064	47112418							1												
gain	chr6	47575228	47580986			1		1		1					1		1					
gain	chr6	57405598	57414720								1						1					
gain	chr6	57431047	57436821							1												
gain	chr6	58466462	58488769														1					
gain	chr6	58497637	58507255														1					
gain	chr6	58514941	58523571							1							1					
gain	chr6	59821647	59907337							1											yes	
gain	chr6	59913557	59917381							1												
gain	chr6	60067429	60072512							1												
gain	chr6	60078261	60084004							1												
gain	chr6	60096756	60120996						1	1												
gain	chr6	67536524	67562657							1												
gain	chr6	67617129	67626471							1					1							
gain	chr6	67628624	67643769							1												
gain	chr6	67655995	67663404							1												
gain	chr6	68086204	68092650							1												
gain	chr6	68108258	68114743							1								1				
gain	chr6	68130596	68140675								1											
gain	chr6	68143765	68155902								1										yes	
gain	chr6	68300133	68306394							1												
gain	chr6	69699955	69717756														1	1				
gain	chr6	69722749	69745321															1				
gain	chr6	69746746	69788525															1				
gain	chr6	69793589	69802432															1				
gain	chr6	70148739	70162210															1				
gain	chr6	70182845	70191464															1				
gain	chr6	70194118	70226488														1	1				
gain	chr6	70335216	70358048							1							1	1				
gain	chr6	70511745	70525694															1				
gain	chr6	84729772	84732361																			
gain	chr6	85637146	85758557																<i>Alms1, Cml3</i>	Alstrom syndrome 1, camello-like 3 isoform 1	yes	
gain	chr6	89132547	89140004							1												
gain	chr6	89140699	89166380							1						1						
gain	chr6	89169010	89179096							1						1			<i>Gm839</i>	hypothetical protein LOC330379	yes	

Type	Chr	Start	End	C57		CAS	BPH	BALB	C57BL		C57B		CZE	C57B		Gene	Product	Full gene	Hybrid CNV
				BL/10J	DBA/2J				PREP/9	129S/1/Svl	JclSid/1	DDY/L/6By		NZO/HiLtJ	NOD/LtJ				
gain	chr6	114455341	114603852	-1	-1				1	1	1	1	1	1	1				yes
gain	chr6	117717642	117731066				1						1						
gain	chr6	124485047	124536623								1	1				<i>C1r, C1s</i>	complement component 1, r subcomponent, complement component 1, s subcomponent	yes	
gain	chr6	124591412	124603426			1					1	1				<i>EG31767</i>	7	complement component C1SB	
gain	chr6	128617900	128624845			1													
gain	chr6	128635374	128641662			1							1			<i>Clec2h</i>	C-type lectin domain family 2, member h		
gain	chr6	128666360	128672610			1							1						
gain	chr6	128673790	128682662										1						
gain	chr6	128685099	128694223										1						
gain	chr6	128696384	128702352			1							1						
gain	chr6	128845377	128863877			1							1			<i>Clec2i</i>	C-type lectin domain family 2, member i	yes	
gain	chr6	128866253	128873980																
gain	chr6	128926350	128928555																
gain	chr6	129874550	129880080				1				1	1				<i>Klra5</i>	killer cell lectin-like receptor, subfamily A,		
gain	chr6	129914189	129922792										1	1					
gain	chr6	129929275	129939593										1			<i>Klra22</i>	killer cell lectin-like receptor subfamily A,		
gain	chr6	129940833	129954717	-1	-1			-1	-1				1	1					yes
gain	chr6	129957875	129963597										1						
gain	chr6	129983993	129993111										1			<i>Klra19,</i>	killer cell lectin-like receptor, subfamily A,		
gain	chr6	129994328	130001511										1			<i>Klra6</i>	killer cell lectin-like receptor, subfamily A,		
gain	chr6	130005396	130012793										1	1		<i>Klra4</i>	killer cell lectin-like receptor, subfamily A,		
gain	chr6	130018583	130030838				1				1	1				<i>Klra4</i>	killer cell lectin-like receptor, subfamily A,		
gain	chr6	130031798	130044252			1	1						1			<i>Klra4</i>	killer cell lectin-like receptor, subfamily A,		
gain	chr6	130060591	130095121										1			<i>Klra8,</i> <i>Klra21</i>	killer cell lectin-like receptor, subfamily A,, killer cell lectin-like receptor subfamily A,	yes	
gain	chr6	130100656	130122485					-1			-1	-1	1			<i>EG65444</i>	9	killer cell lectin-like receptor subfamily A	yes
gain	chr6	130124406	130132109										1			<i>EG65444</i>	9	killer cell lectin-like receptor subfamily A	
gain	chr6	130135702	130214413	-1	-1		1	-1	-1		1	1	1	1		<i>Klra9,</i> <i>Klra7</i>	killer cell lectin-like receptor subfamily A,, killer cell lectin-like receptor, subfamily A,	yes	yes
gain	chr6	130228050	130251589	-1	-1		-1	-1	-1		-1		1			<i>Klra10</i>	killer cell lectin-like receptor subfamily A,	yes	

Type	Chr	Start	End	C57BL											Gene	Product	Full gene	Hybrid CNV				
				BL/10J	DBA/2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	JclSid DDY/ SeyFr kJ	C57B L/6By NZO/ HiLtJ					CZE NOD/ LtJ	C57B CHI/ R/cd EIJ		
gain	chr6	130256177	130321663		-1	-1	1,-1	-1,-1	-1,-1	-1		-1,-1,-	-1		-1	1	1	-1	<i>Klra23</i> , <i>Klra12</i> , <i>Klra13</i> , <i>Klra3</i>	killer cell lectin-like receptor subfamily A,, killer cell lectin-like receptor, subfamily A,	yes	yes
gain	chr6	130341345	130347812					1				1	1					<i>Klra22</i> , <i>Klra15</i>	killer cell lectin-like receptor subfamily A,, killer cell lectin-like receptor, subfamily A,			
gain	chr6	130508481	130514225					1				1	1				1					
gain	chr6	130526711	130534368				1	1				1	1		1							
gain	chr6	130540876	130547341					1					1		1							
gain	chr6	130552838	130561509												1							
gain	chr6	130572755	130587186				1	1				1	1		1							
gain	chr6	130590556	130598447					1							1							
gain	chr6	130616436	130629912				1	1				1	1		1							
gain	chr6	130632070	130647190				1	1				1	1		1		1					
gain	chr6	130657509	130667841					1				1	1		1		1	1				
gain	chr6	130673596	130683661					1				1	1				1					
gain	chr6	130688921	130702398				1	1				1	1		1							
gain	chr6	130704073	130714365					1				1	1		1							
gain	chr6	130726116	130744122				1	1				1	1		1							
gain	chr6	130748442	130755647					1							1							
gain	chr6	130761903	130769333									1			1							
gain	chr6	130777476	130783958				1	1				1			1			1				
gain	chr6	130784718	130800084				1	1				1	1		1			1				
gain	chr6	130800789	130857681				1	1		-1		1	1		1		1				yes	
gain	chr6	130861478	130874230					1				1	1				1					
gain	chr6	130876395	130888849					1				1	1				1	1				
gain	chr6	130901355	130911876				1	1				1	1		1		1					
gain	chr6	130913842	130933001					1				1	1		1		1	1				
gain	chr6	130933736	130941645					1				1	1		1		1					
gain	chr6	130951524	130957001										1									
gain	chr6	130963474	130979795				1	1				1	1		1							
gain	chr6	130997575	131005028					1				1	1									
gain	chr6	131090723	131096968				1	1				1	1		1							
gain	chr6	133191585	133202658		1	1									1		1					
gain	chr6	133219222	133236474												1							
gain	chr6	133252302	133260964												1		1					
gain	chr6	133266489	133277055												1							
gain	chr6	133416571	133451134												1							
gain	chr6	133478541	133484011												1							
gain	chr6	133491701	133497966												1							
gain	chr7	3085171	3091880	1	1	1				1		1	1	1	1	1	1					
gain	chr7	3334795	3342960				1											<i>Pira6</i>	paired-Ig-like receptor A6 isoform b			
gain	chr7	3391448	3404425				1											<i>Pira6</i>	paired-Ig-like receptor A6 isoform b			
gain	chr7	3418336	3426003				1															
gain	chr7	3438274	3444750				1											<i>Pira2</i>	paired-Ig-like receptor A2			
gain	chr7	3463683	3469712				1											<i>Pira6</i>	paired-Ig-like receptor A6 isoform a			
gain	chr7	3513386	3519384				1					1						<i>Pira3</i> , <i>Pira6</i>	paired-Ig-like receptor A3, paired-Ig-like receptor A6 isoform a			

Type	Chr	Start	End	C57BL													Gene	Product	Full gene	Hybrid CNV		
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	#3757 9	129S 1/Svl mJ	DDY/ JclSid SeyFr kJ	C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ	C57B R/cd J						
gain	chr7	3875160	3888100		-1			1	-1									<i>Pira6</i>	paired-Ig-like receptor A6 isoform b,	yes	yes	
gain	chr7	5056666	5063156					1										<i>V1rd10</i>	paired-Ig-like receptor A6 isoform a vomeronasal 1 receptor, D10	yes	yes	
																		<i>BC023179</i>				
gain	chr7	6810598	6818288				1			1				1	1		1	<i>03Rik</i>	hypothetical protein LOC232855, hypothetical protein LOC76229			
gain	chr7	6882837	6888847					1										<i>Cln4-2</i>	chloride channel 4			
gain	chr7	6918824	6928143				1		1					1	1			<i>V2r15</i>	vomeronasal 2, receptor, 15			
gain	chr7	6938021	6952182				1		1	1				1	1			<i>V2r15</i>	vomeronasal 2, receptor, 15			
gain	chr7	6962719	6970144																			
gain	chr7	6979768	7000140				1		1	1				1	1							
gain	chr7	7003065	7021537				1		1	1				1	1							
gain	chr7	7023917	7055601				1		1	1				1	1							
gain	chr7	7062332	7123756				1		1	1				1	1		-1	1			yes	
gain	chr7	7125706	7146573				1		1	1				1	1							
gain	chr7	7147752	7167675				1		1	1				1	1							
gain	chr7	7169110	7181624				1		1	1				1	1							
gain	chr7	7191657	7214981				1		1	1				1	1							
gain	chr7	7283140	7300897				1		1	1				1	1							
gain	chr7	7312164	7317945		1		1		1					1	1							
gain	chr7	7371937	7379339				1			1												
gain	chr7	7416780	7426153				1		1	1				1	1			1				
gain	chr7	7449703	7459771				1		1	1				1	1			1				
gain	chr7	7460946	7508242				1		1	1				1	1			1				
gain	chr7	7589426	7598528					1														
gain	chr7	7600490	7618952				1		1	1					1	1		<i>V2r14</i>	vomeronasal 2, receptor, 14			
gain	chr7	7640286	7651832				1		1					1								
gain	chr7	7677730	7701743				1		1	1				1	1							
gain	chr7	7712321	7726941				1		1	1				1	1			1				
gain	chr7	7728166	7749249				1		1	1				1	1			1				
gain	chr7	7752121	7771801				1		1	1				1	1			1				
gain	chr7	7779037	7798951				1		1	1				1	1			1				
gain	chr7	7808285	7843575				1		1	1				1	1		-1	1			yes	
gain	chr7	7850532	7873090				1		1	1				1	1			1				
gain	chr7	7889897	7926121				1		1	1				1	1			1				
gain	chr7	7934547	7959288				1		1	1				1	1			1				
gain	chr7	7961414	7974604				1		1	1				1	1			1				
gain	chr7	7990965	8011839				1		1	1				1	1			1				
gain	chr7	8015659	8036043				1		1					1	1							
gain	chr7	8066044	8091288				1		1					1	1		-1				yes	
gain	chr7	8097968	8111905				1		1	1				1	1			1				
gain	chr7	8113370	8123453				1		1	1				1	1			1				
gain	chr7	8125853	8178626				1		1	1				1	1		-1,-1,-	1	<i>V2r4</i>	vomeronasal 2, receptor, 4		yes
gain	chr7	8182447	8202124				1		1	1				1	1			1	<i>Gm1961</i>	EC2-V2R pheromone receptor	yes	
gain	chr7	8217273	8227343											1	1			1				
gain	chr7	8294068	8322162				1		1	1				1	1			1				
gain	chr7	8332207	8344973							1				1	1			1				
gain	chr7	8358399	8377605				1		1	1				1	1			1				

Type	Chr	Start	End	C57BL										Gene	Product	Full gene	Hybrid CNV					
				BL/10J	DBA/2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	JclSid SeyFr kJ					C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ	C57B R/cd J		
gain	chr7	8418893	8428215			1		1	1				1		1	1	1					
gain	chr7	8446946	8452491		1	1		1	1				1		1	1						
gain	chr7	8461850	8468557			1		1	1				1		1							
gain	chr7	8491116	8497588			1	1						1		1							
gain	chr7	8621191	8639437			1		1	1				1		1							
gain	chr7	8689333	8698941						1				1		1							
gain	chr7	8737806	8746714			1			1				1		1	1						
gain	chr7	8753884	8776730			1		1	1				1	1	1	1			1			
gain	chr7	8805253	8830448			1		1	1				1		1	1						
gain	chr7	8841763	8850367			1			1						1				1			
gain	chr7	8852092	8879923			1		1	1				1	1	1	1						
gain	chr7	8882550	8899096			1		1	1				1	1	1	1	-1		1		yes	
gain	chr7	8905824	8925970			1		1	1				1	1	1	1	-1		1		yes	
gain	chr7	8940388	8954804			1		1	1				1	1	1	1			1			
gain	chr7	8964169	8977819			1		1	1						1	1						
gain	chr7	10916177	10923637				1					1			1	1						
gain	chr7	10946870	10952902	1		1	1		1						1	1						
gain	chr7	12663395	12669393		1	1															<i>C730007</i> <i>P19Rik</i> sulfotransferase family 2A,	
gain	chr7	13516660	13596584			1			1										1	8	<i>B430211</i> <i>C08Rik</i> , <i>EG19458</i> hypothetical protein LOC627280, hypothetical protein LOC194588	yes
gain	chr7	13597547	13626559			1	1		1						1	1			1	1		
gain	chr7	13647693	13678906		1	1	1		1						1	1			1	1		
gain	chr7	13687999	13714166			1	1		1						1	1			1	1		
gain	chr7	13748042	13809680			1	1		1						1	1			1	1		
gain	chr7	13821729	13928747			1	1		1						1	1			1	1		
gain	chr7	13936183	13980605			1	1		1						1	1			1	1		
gain	chr7	13982000	13996402			1	1		1						1	1			1	1		
gain	chr7	14009130	14033146			1	1		1						1	1			1	1		
gain	chr7	14037718	14188402				1									1						
gain	chr7	14189862	14234015			1	1		1						1	1			1	1		
gain	chr7	14240726	14254428				1															
gain	chr7	14328846	14369635			1	1		1						1	1			1	1		
gain	chr7	14406436	14436209			1	1		1						1	1			1	1		
gain	chr7	14556204	14608319			1	1		1						1	1			1	1	<i>Obox3</i> oocyte specific homeobox 3	yes
gain	chr7	14847179	14951329			1			1						1				1		<i>Obox5</i> oocyte specific homeobox 5	yes
gain	chr7	15053128	15063973		1		1	1			1			1							<i>Crxos1</i> Crx opposite strand transcript 1	yes
gain	chr7	17769436	17795150				1														<i>Psg23</i> pregnancy-specific glycoprotein 23	
gain	chr7	17810962	17817455				1				1										<i>Psg21</i> pregnancy-specific glycoprotein 21	
gain	chr7	23006304	23020460			1		1													<i>Nlrp4e</i> NACHT, leucine rich repeat and PYD containing	
gain	chr7	23046641	23053114			1		1													<i>Nlrp4e</i> NACHT, leucine rich repeat and PYD containing	
gain	chr7	23317931	23331596																			
gain	chr7	23399866	23426022				1															
gain	chr7	23460352	23465888										1				1				<i>V1rd22</i> vomeronasal 1 receptor, D22	yes





		C57BL																				
		C57			CAS			C57BL			PREP			C57B			CZE			C57B		
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	BALB/cByJ	C57BL/KS/J	#3757/9	129S1/Svl/mJ	JclSid/SeyFr/kJ	L/6By/NZO/HiLtJ	NOD/LtJ	CHI/EiJ	R/cd/J	Gene	Product	Full gene	Hybrid CNV	
gain	chr8	105566272	105579677		1	1	1	1	1			1	1				1	<i>Cdh11</i>	cadherin 11			
gain	chr9	13711602	13718768							1												
gain	chr9	13842609	13858490							1												
gain	chr9	13886330	13893012							1												
gain	chr9	39805085	39811817														1					
gain	chr9	66728564	66734569							1												
gain	chr9	73635251	73641017							1												
gain	chr9	73747308	73754282														1					
																		<i>EG54710</i>				
gain	chr9	88370784	88404165							1							1	<i>9</i>	similar to tripartite motif-containing 43	yes		
gain	chr9	88405585	88446657							1							1					
																			B-cell leukemia/lymphoma 2 related protein A1d			
gain	chr9	88506988	88595537							1							1	<i>Bcl2a1d</i>		yes		
gain	chr9	88602530	88634201				1	1	1			1					1					
																			B-cell leukemia/lymphoma 2 related protein A1a			
gain	chr9	88685088	88820936							1							1	<i>Bcl2a1a</i>		yes		
gain	chr9	88847092	88891458							1							1					
gain	chr9	88909207	88937333							1		1					1					
																			<i>4930579C</i>	hypothetical protein LOC319213, B-cell leukemia/lymphoma 2 related protein		
gain	chr9	88942363	89020372							1							1	<i>12Rik, Bcl2a1b, Mthfs</i>	A1b, 5, 10-methenyltetrahydrofolate synthetase	yes		
gain	chr9	109089909	109097551							1									<i>Fbxw12</i>	F-box and WD-40 domain protein 12		
gain	chr9	109127091	109136219			1													<i>Fbxw14</i>	F-box and WD-40 domain protein 14		
gain	chr9	109140288	109147987			1				1		1							<i>Fbxw14</i>	F-box and WD-40 domain protein 14		
gain	chr9	109173425	109181347			1	1					1					1					
gain	chr9	109182265	109188307			1				1							1					
gain	chr9	109192147	109199796			1			1			1					1					
gain	chr9	113962694	113988104							1												
gain	chr9	113999134	114006584							1												
gain	chr9	114011159	114024619							1												
gain	chr9	114150639	114156369							1							1					
gain	chr9	114162380	114168867							1												
																				B-cell leukemia/lymphoma 2 related protein A1c		
gain	chr9	114173672	114189504							1									<i>Bcl2a1c</i>		yes	
gain	chr9	116465723	116471996							1												
																				RNA binding motif, single stranded interacting		
gain	chr9	116566318	116573500							1									<i>Rbms3</i>			
gain	chrX	3019839	3140569	1													1					
gain	chrX	3148214	3188101	1													1					
gain	chrX	3197171	3327790	1				1									1					
gain	chrX	3357881	3515575	1				1									1					
gain	chrX	3568847	3596070	1													1					
gain	chrX	3626071	3812406	1													1					
gain	chrX	3842415	3857796	1													1					
gain	chrX	3916576	4004658	1			1					1					1					
gain	chrX	4120335	4173664	1				1									1					
gain	chrX	4184424	4214570	1				1									1					
gain	chrX	4244571	4287782	1				1									1					

		C57BL																									
		/6J										DDY/															
		C57			CAS			BALB			C57BL			PREP		129S		JclSid		C57B		CZE		C57B			
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	/cByJ	K5/J	#3757/9	1/Svl/mJ	SeyFr/kJ	L/6By/J	NZO/HiLtJ	NOD/LtJ	CHI/EIJ	R/cd/J	Gene	Product	Full gene	Hybrid CNV					
gain	chrX	4294055	4402256	1			1								1		1	1									
gain	chrX	4410411	4432781	1											1			1									
gain	chrX	4440207	4463710	1											1		1	1									
gain	chrX	4478126	4541212	1											1			1									
gain	chrX	4547212	4568119	1		1									1		1	1									
gain	chrX	4572685	4582767	1											1			1									
gain	chrX	7855049	7883644				-1																				
gain	chrX	12324478	12352283					1											<i>Usp9x</i>	ubiquitin specific protease 9, X chromosome							
gain	chrX	23597107	23713797															1									
gain	chrX	23747604	23823236															1									
gain	chrX	24389279	24411826															1									
gain	chrX	24429314	24474211															1									
gain	chrX	24517422	24549564											1			1										
gain	chrX	24559436	24657790											1			1										
gain	chrX	24709169	24773001												1		1										
gain	chrX	24790522	24826793											1			1										
gain	chrX	24863023	24956380														1										
gain	chrX	24987580	25043018											1			1		<i>EG38227</i>	5 predicted gene, EG382275							
gain	chrX	25061742	25092472														1										
gain	chrX	25099435	25215117														1										
gain	chrX	25224914	25325274														1										
gain	chrX	25364114	25449071														1		<i>Xmr</i>	Xmr protein							
gain	chrX	25459919	25512915										1														
gain	chrX	25560697	25670391										1						<i>Xmr</i>	Xmr protein							
gain	chrX	25722204	25782711														1										
gain	chrX	25794438	25948029											1			1										
gain	chrX	25950471	26002507														1										
gain	chrX	26032508	26062558														1										
gain	chrX	27334104	27732505														-1		<i>Slx</i>	Xlr-related, meiosis regulated	yes	yes					
gain	chrX	28258607	28303240														1										
gain	chrX	28327228	28401130											1			1										
gain	chrX	30288901	30469140	1			1							1			1	1									
gain	chrX	30470339	30492193	1										1			1	1									
gain	chrX	30495298	30558671	1										1			1	1									
gain	chrX	30580063	30656831	1										1			1	1									
gain	chrX	30664260	30705931	1										1			1	1									
gain	chrX	31185932	31216913	1										1			1	1									
gain	chrX	31349649	31729329											1					<i>Slx</i>	Xlr-related, meiosis regulated	yes						
gain	chrX	50361710	50372056														1										
gain	chrX	50391710	50417148														1										
gain	chrX	50442379	50512913														1										
gain	chrX	51085494	51119360														1										
gain	chrX	51494191	51546708														1										
gain	chrX	51667665	51698867														1										
gain	chrX	51831392	51848172														1										
gain	chrX	51850786	51879132														1										
gain	chrX	51909585	51933837														1										

		C57BL																				
		C57			CAS			C57BL			PREP			CZE			C57B					
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	BALB/cByJ	C57BL/KS/J	#3757/9	129S1/Svl/mJ	JclSid/SeyFr/kJ	C57B L/6By/NZO/HiLtJ	NOD/LtJ	CHI/EIJ	R/cd/J	Gene	Product	Full gene	Hybrid CNV	
gain	chrX	51944867	51985673														1					
gain	chrX	71047170	71071913	1											1			1				
gain	chrX	119465235	119474130					1														
gain	chrX	119595570	119644298										1				1					
gain	chrX	119691074	119697364																			
gain	chrX	119905877	119912164																			
gain	chrX	120134597	120140372																			
gain	chrX	120466956	120554800										1				1					
gain	chrX	120577592	120624648										1				1					
gain	chrX	120706963	120776333														1					
gain	chrX	120876513	120959095				-1						1				1					yes
gain	chrX	121030133	121045810										1				1					
gain	chrX	121075811	121143735										1				1					
gain	chrX	121215013	121305735			-1	-1						1				1					yes
gain	chrX	121388092	121488899														1					
gain	chrX	121516022	121581067										1				1					
gain	chrX	121649455	121661225										1									
gain	chrX	130482654	130540973					-1							-1,-1,-1,-1							yes
gain	chrX	130667466	130673217															1				
gain	chrX	130680434	130686165															1				
gain	chrX	130689784	130739670					-1							-1,-1				<i>EG33152</i> 9	hypothetical protein LOC331529	yes	yes
gain	chrX	130749309	130850074					-1,-1,-1							-1,-1,-1				<i>EG33152</i> 9	hypothetical protein LOC331529	yes	yes
gain	chrX	130852514	130876261												-1							yes
gain	chrX	130879617	130922595					-1														yes
gain	chrX	143215773	143223926															1				
gain	chrX	143321814	143327852															1				
gain	chrX	143837824	143844819															1				
gain	chrX	144110013	144117687															1				
gain	chrX	144409731	144428958															1				
gain	chrX	145112471	145120643																			
gain	chrX	150272232	150280652												-1							yes
gain	chrX	150287323	150302626																<i>Magea3</i>	melanoma antigen family A, 3	yes	
gain	chrX	150322706	150344307																<i>Magea8</i>	melanoma antigen family A, 8	yes	
gain	chrX	150349875	150410688																<i>Magea2,</i>	melanoma antigen family A, 2, melanoma		
gain	chrX	150427223	150439203																<i>Magea5</i>	antigen family A, 5	yes	
gain	chrX	165410802	165420200			1		-1		1	-1				1	1	-1		<i>Magea1</i>	melanoma antigen family A, 1	yes	
gain	chrX	165431954	165443618					-1		1					1		-1					yes
gain	chrX	165533557	165542955					-1		1					1		-1					yes
gain	chrY	1879022	1886215										1				1					
loss	chr1	55388279	55394036						-1	-1												
loss	chr1	68946677	68956038					-1														
loss	chr1	84832975	84866825				-1										-1					
loss	chr1	84871654	84913617				-1										-1					
loss	chr1	84941723	84980104				-1	1						1		-1	1		<i>A530032</i> <i>D15Rik</i>	SP140 nuclear body protein family member		yes

Type	Chr	Start	End	C57BL												Gene	Product	Full gene	Hybrid CNV	
				BL/10J	DBA/2J	A/J	CAS T/EiJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	JclSid DDY/ SeyFr kJ	C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ					C57B CHI/ R/cd EIJ
loss	chr1	84983952	85048274			-1	1						1		-1	1	<i>A530032</i> <i>D15Rik</i>	SP140 nuclear body protein family member		yes
loss	chr1	85070335	85094367			-1									-1		<i>EG66537</i> 8	predicted gene, EG665378	yes	
loss	chr1	85119786	85236129			-1	1								-1	1	<i>C130026l</i> <i>21Rik</i>	SP140 nuclear body protein family member isoform	yes	yes
loss	chr1	87216130	87237983			-1									-1					
loss	chr1	87250485	87327751			-1	1								-1	1				yes
loss	chr1	87337375	87405510			-1									-1					
loss	chr1	87409344	87494100			-1	1,1,1						1		-1	1,1,1	<i>Sp110</i> , <i>Sp140</i> , <i>Sp100</i>	Sp110 nuclear body protein, SP140 nuclear body protein family member, nuclear antigen Sp100	yes	yes
loss	chr1	95680813	95690219	-1	-1			-1	-1				-1	-1	-1					
loss	chr1	95691901	95708692	-1	-1			-1	-1				-1	-1	-1		-1	<i>Gal3st2</i>	galactose-3-O-sulfotransferase 2	yes
loss	chr1	95718269	95729789					-1												
loss	chr1	95731249	95737453	-1				-1					-1							
loss	chr1	95739162	95750188	-1	-1			-1	-1				-1	-1	-1		<i>D2hgdh</i>	D-2-hydroxyglutarate dehydrogenase		
loss	chr1	95758350	95772536	-1	-1			-1	-1				-1	-1	-1					
loss	chr1	95786221	95802034	-1				-1	-1				-1	-1						
loss	chr1	95803454	95812597	-1	-1			-1	-1				-1		-1					
loss	chr1	95815968	95822176	-1	-1			-1					-1	-1	-1					
loss	chr1	95829177	95834929													-1				
loss	chr1	119459101	119479481									-1								
loss	chr1	119607343	119668346					-1												
loss	chr1	119670961	119679118					-1												
loss	chr1	119680573	119718863					-1												
loss	chr1	119782082	119792166					-1												
loss	chr1	119835885	119862746					-1												
loss	chr1	119875445	119904483					-1												
loss	chr1	121400067	121406271													-1	<i>Epb4.115</i>	erythrocyte protein band 4.1-like 5		
loss	chr1	128601568	128618341	-1	-1	-1							-1	-1	-1					
loss	chr1	141472358	141479102													-1				
loss	chr1	141487016	141517525													-1	<i>EG21440</i> 3	complement factor H-related protein C		
loss	chr1	141518201	141546612													-1	<i>EG21440</i> 3	complement factor H-related protein C		
loss	chr1	141550697	141559375													-1	<i>EG21440</i> 3	complement factor H-related protein C		
loss	chr1	141566577	141586134													-1	<i>EG21440</i> 3	complement factor H-related protein C		
loss	chr1	141591189	141612265													-1	<i>EG21440</i> 3	complement factor H-related protein C		
loss	chr1	141684041	141690310										-1							
loss	chr1	141691530	141698728														-1			
loss	chr1	141742647	141749089														-1			
loss	chr1	149241910	149250074	-1	-1								-1	-1	-1	-1	-1			



Type	Chr	Start	End	C57		CAS	BPH	BALB	C57BL	C57BL		129S	JclSid	C57B	CZE	C57B	Gene	Product	Full gene	Hybrid CNV
				BL/10J	DBA/2J					PREP/9	DDY/1/Svl									
loss	chr10	81300381	81318901	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	81330406	81349593	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>BC062127</i>	hypothetical protein LOC331188	yes	
loss	chr10	81357054	81365429	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>BC062127</i>	hypothetical protein LOC331188		
loss	chr10	81366890	81423519	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	81425186	81433610	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	81435282	81452797	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	81503263	81516223	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	81518128	81526066	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	81535432	81543807	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	85255003	85262693	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	102229652	102236129	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	103572118	103600475	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	117590255	117600324	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	117601539	117611648	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>Il22</i>	interleukin 22		
loss	chr10	117613552	117621966	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	117623137	117649089	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	117656285	117677365	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	117678356	117684816	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr10	117688188	117727043	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>Il1fb</i>	interleukin 10-related T cell-derived inducible	yes	
loss	chr11	3025756	3038028	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>4933439C20Rik, Sfi1</i>	hypothetical protein LOC236604, Sfi1 homolog, spindle assembly associated	yes	
loss	chr11	3041637	3052877	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>Sfi1</i>	Sfi1 homolog, spindle assembly associated		
loss	chr11	10325944	10346106	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	27746255	27760442	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	27761652	27771724	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	27782018	27797891	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	27802448	27810095	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	46508225	46514181	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	48765575	48771577	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>OTTMUS G00000005523</i>	hypothetical protein LOC620913		
loss	chr11	48777298	48784495	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	48790491	48827019	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>9930111J21Rik</i>	hypothetical protein LOC245240	yes	
loss	chr11	48844184	48864613	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	48873017	48898704	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>9930111J21Rik</i>	hypothetical protein LOC245240	yes	
loss	chr11	48899634	48907542	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	50859670	50876934	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>Olfr54</i>	olfactory receptor 54	yes	
loss	chr11	50879342	50886572	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	58503278	58524570	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>Olfr319</i>	olfactory receptor 319	yes	
loss	chr11	60424096	60434202	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr11	70976561	70982058	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>Nlrp1b</i>	NACHT-, LRR-, and PYD-containing protein 1		





Type	Chr	Start	End	C57		A/J	C57BL			C57BL		C57B		CZE		C57B		Gene	Product	Full gene	Hybrid CNV
				BL/10J	DBA/2J		CAS T/EIJ	BPH /2J	BALB /cByJ	PREP #3757 9	129S 1/Svl mJ	JclSid SeyFr kJ	L/6By NZO/ HiLtJ	NOD/ LtJ	CHI/ EIJ	R/cd J					
loss	chr12	20712410	20732765	-1	-1				-1	-1					-1						
loss	chr12	20743326	20755352	-1					-1	-1											
loss	chr12	20776471	20814606	-1			-1		-1								-1				
loss	chr12	20825887	20869325	-1			-1		-1												
loss	chr12	20892399	20901759	-1	-1																
loss	chr12	20925270	20954789	-1			-1		-1												
loss	chr12	20968221	20994615	-1			-1		-1		-1										
loss	chr12	21012653	21026803	-1					-1												
loss	chr12	21053211	21072410	-1					-1			1		1							yes
loss	chr12	21077442	21091818	-1					-1												
loss	chr12	21099990	21112731	-1	-1		-1		-1												
loss	chr12	21121130	21137647	-1	-1		-1		-1			1		1							yes
loss	chr12	21142730	21156852	-1			-1		-1												
loss	chr12	21163131	21175362	-1					-1												
loss	chr12	21203184	21235847	-1			-1		-1												
loss	chr12	21305644	21328702	-1			-1		-1												
loss	chr12	21332090	21347206	-1	-1		-1	-1	-1			-1									
loss	chr12	21349116	21364730	-1			-1		-1									<i>Ddef2</i>	development and differentiation enhancing factor		
loss	chr12	21914271	21934480	-1			-1		-1												
loss	chr12	21937345	21958938	-1			-1		-1												
loss	chr12	21960380	21979809	-1	-1	-1	-1	-1	-1			-1			-1	-1					
loss	chr12	22009810	22025910	-1	-1	-1	-1	-1	-1			-1			-1	-1					
loss	chr12	22030212	22048251	-1	-1		-1		-1						-1	-1					
loss	chr12	22057376	22117855	-1			-1		-1					1		-1					yes
loss	chr12	22127203	22149260	-1	-1	-1	-1	-1	-1			-1									
loss	chr12	22152414	22164386	-1			-1		-1												
loss	chr12	22168734	22188138	-1			-1		-1												
loss	chr12	22189107	22220567	-1			-1		-1												
loss	chr12	22225366	22234952	-1			-1	-1	-1												
loss	chr12	22238817	22256338	-1	-1		-1	-1	-1			-1			-1	-1					
loss	chr12	22277674	22311019	-1			-1		-1												
loss	chr12	22375116	22384492	-1	-1		-1		-1			-1									
loss	chr12	22452887	22473506	-1	-1		-1		-1			-1									
loss	chr12	22499459	22514087	-1	-1		-1		-1			-1									
loss	chr12	22533498	22548878	-1	-1		-1		-1			-1									
loss	chr12	22564000	22581010	-1	-1		-1		-1			-1									
loss	chr12	22593735	22613170	-1			-1		-1			-1									
loss	chr12	22631656	22644660	-1	-1		-1		-1												
loss	chr12	22704786	22720856	-1			-1		-1												
loss	chr12	22780594	22800993	-1	-1		-1		-1			-1									
loss	chr12	22820428	22839154	-1			-1		-1												
loss	chr12	22901813	22949079	-1	-1		-1		-1				1		1						yes
loss	chr12	22991314	23003332	-1	-1		-1		-1												
loss	chr12	23007156	23054213	-1	-1		-1		-1			-1			1						yes
loss	chr12	23064295	23087784	-1	-1		-1	-1	-1			-1			-1	-1					
loss	chr12	23093320	23117543	-1	-1		-1	-1	-1			-1						<i>2410018L</i> <i>13Rik</i>	hypothetical protein LOC69732		

		C57BL																			
		C57			CAS			C57BL			DDY/			CZE			C57B				
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	BALB/cByJ	#3757/9	129S/1mJ	JclSid/SeyFr	C57B/L/6By	NZO/HiLtJ	NOD/LtJ	CHI/EIJ	R/cd	Gene	Product	Full gene	Hybrid CNV
		2410018L																			
loss	chr12	23135543	23169405	-1	-1		-1	-1		-1								13Rik	hypothetical protein LOC69732		
loss	chr12	23181380	23194380		-1		-1	-1		-1											
loss	chr12	23198941	23239987		-1		-1			-1											
loss	chr12	23259177	23289427	-1	-1		-1					1		1							yes
loss	chr12	23315828	23329492		-1					-1											
loss	chr12	23335488	23393576		-1		-1	-1		-1											
loss	chr12	23400539	23409656	-1	-1		-1			-1											
loss	chr12	23415623	23429300		-1		-1														
loss	chr12	23433400	23449220		-1		-1														
loss	chr12	23453343	23469139		-1		-1														
loss	chr12	23476134	23521487		-1		-1			-1											
loss	chr12	23556065	23638145	-1	-1		-1	-1		-1		1		1		-1					yes
loss	chr12	23641730	23665474									-1									
loss	chr12	23675579	23686388	-1	-1		-1														
loss	chr12	23715420	23735803	-1	-1		-1			-1											
loss	chr12	23753109	23780180	-1	-1		-1			-1											
loss	chr12	23786468	23816699	-1	-1		-1			-1											
loss	chr12	23823152	23842621	-1	-1		-1			-1											
loss	chr12	23855066	23867575	-1																	
loss	chr12	23982806	24002234	-1	-1		-1			-1											
loss	chr12	24015456	24043054	-1	-1		-1			-1		1		1							yes
loss	chr12	24082669	24118654	-1	-1		-1			-1				1							yes
loss	chr12	24126800	24146966	-1	-1		-1			-1		1		1							yes
loss	chr12	24177208	24186578	-1	-1		-1														
loss	chr12	24198814	24261715	-1	-1		-1			-1											
loss	chr12	24267688	24286676	-1	-1		-1														
loss	chr12	24294339	24357194	-1	-1		-1			-1		1		1		-1					yes
loss	chr12	24373279	24416010	-1	-1		-1			-1											
loss	chr12	24420333	24455111	-1	-1		-1	-1		-1											
loss	chr12	24463079	24492322	-1	-1		-1			-1				1							yes
loss	chr12	24530983	24574197		-1		-1			-1											
loss	chr12	24578022	24596711		-1		-1			-1		1		1							yes
loss	chr12	24601041	24616663		-1		-1														
loss	chr12	24623839	24652887	-1	-1		-1					-1									
loss	chr12	24662265	24682407				-1														
loss	chr12	24687476	24718634		-1		-1			-1											
loss	chr12	24766878	24790915	-1	-1							-1									
loss	chr12	24794727	24820151				-1														
loss	chr12	24848238	24859996	-1	-1		-1														
loss	chr12	24866501	24876102		-1		-1														
loss	chr12	24886188	24897952		-1		-1	-1		-1											
loss	chr12	24901786	24932254	-1	-1	-1	-1	-1				-1				-1					
		2700097																			
loss	chr12	55996628	56003341				-1												O09Rik	hypothetical protein LOC72658	
loss	chr12	56005739	56016299				-1	-1		-1		-1		-1		-1			Srp54	signal recognition particle 54	
loss	chr12	56018022	56024699			-1	-1	-1		-1		-1		-1		-1			Srp54	signal recognition particle 54	
loss	chr12	56025937	56040782				-1	-1		-1		-1		-1		-1			Srp54	signal recognition particle 54	



Type	Chr	Start	End	C57		CAS	BPH	BALB	C57BL	C57BL		129S	JclSid	C57B	CZE	C57B	Full	Hybrid			
				BL/	DBA					#3757	PREP								1/Svl	DDY/	R/cd
				10J	/2J	A/J	T/EIJ	/2J	/cByJ	KS/J	9	mJ	kJ	J	HiLtJ	LtJ	EiJ	J			
loss	chr12	114110586	114127884		-1		-1	-1					-1								
loss	chr12	114129804	114135802		-1		-1	-1					-1								
loss	chr12	114137931	114148479		-1			-1					-1								
loss	chr12	114152124	114166975	-1	-1			-1					-1								
loss	chr12	114168157	114174687	-1	-1		-1	-1					-1								
loss	chr12	114176559	114188847	-1	-1			-1					-1								
loss	chr12	114190287	114215012		-1			-1	-1				-1								
loss	chr12	114218385	114235264		-1		-1	-1					-1								
loss	chr12	114378457	114384657												-1						
loss	chr12	114440860	114449741												-1						
loss	chr12	114516417	114525776			-1			-1			-1						-1			
loss	chr12	114539217	114545242												-1						
loss	chr12	114754791	114763211		-1	-1	1	-1					-1								yes
loss	chr12	114840218	114845978		-1			-1					-1								
loss	chr12	114851762	114864484												-1						
loss	chr12	114928815	114934769			-1															
loss	chr12	115098074	115115391		-1	-1	-1	-1					-1		-1			-1			
loss	chr12	115204194	115219516		-1	-1	-1	-1	-1			-1	-1		-1			-1	-1		
loss	chr12	115499814	115509379		-1	-1		-1	-1			-1	-1					-1			
loss	chr12	115523109	115530772				-1														
loss	chr12	115532203	115562208				-1		-1			-1			-1			-1	-1		
loss	chr12	115568705	115592422		-1		-1	-1					-1					1			
loss	chr12	115594102	115614752				-1								-1						
loss	chr12	115620502	115629886		-1		-1	-1					-1					-1			
loss	chr12	115649542	115661334				-1								-1						
loss	chr12	115663267	115673102												-1						
loss	chr12	115675267	115687224												-1						
loss	chr12	115699980	115707889				-1								-1						
loss	chr12	115708579	115716980		-1			-1					-1		-1						
loss	chr12	115724669	115738583		-1		-1	-1	-1				-1		-1						
loss	chr12	115746299	115754912				-1								-1						
loss	chr12	115757093	115765025												-1						
loss	chr12	115766200	115777975				-1		-1			-1			-1			-1	-1		
loss	chr12	115782549	115792147				-1														
loss	chr12	115793322	115824516		-1	1	-1	-1	1			1	-1				1				yes
loss	chr12	115830993	115839382		-1		-1	-1					-1								
loss	chr12	115840387	115846357												-1						
loss	chr12	115854761	115878036		-1			-1					-1								
loss	chr12	115909231	115923162				-1														
loss	chr12	115925784	115935187		-1			-1					-1					-1			
loss	chr12	115955782	115970701				-1														
loss	chr12	115976917	115992176		-1			-1					-1								
loss	chr12	116040178	116065063			1	-1		1			1					1	1			yes
loss	chr12	116076851	116084261		-1			-1					-1								
loss	chr12	116093140	116106109				-1														
loss	chr12	116144507	116166343		-1			-1					-1								
loss	chr12	116206428	116225381				-1														
loss	chr12	116229942	116238147				-1														
loss	chr12	116243893	116249380				-1								-1						



Type	Chr	Start	End	C57BL											Gene	Product	Full gene	Hybrid CNV								
				C57			CAS	BPH	BALB	C57BL	PREP	129S	JclSid	C57B					CZE	C57B						
				BL/10J	DBA/2J	A/J															T/EIJ	/2J	/cByJ	KS/J	#3757	1/Svl
loss	chr13	33333452	33341111																					serine (or cysteine) proteinase inhibitor, <i>Serpinb9f</i>		
loss	chr13	33347086	33360315																							
loss	chr13	33464931	33487506																							
loss	chr13	33490640	33496858																					serine (or cysteine) proteinase inhibitor, <i>Serpinb9g</i>		
loss	chr13	50757029	50762571																							
loss	chr13	50813674	50825701																							
loss	chr13	61085248	61131612																							
loss	chr13	61648471	61662157																							
loss	chr13	61675096	61693812																							
loss	chr13	61695962	61711327																							
loss	chr13	61713517	61722885																							
loss	chr13	61724795	61735341																							
loss	chr13	61824874	61830858																							
loss	chr13	61833005	61846450																							
loss	chr13	61848371	61864684																							
loss	chr13	61868058	61874320																							
loss	chr13	61885124	61898290																							
loss	chr13	61904081	61917487																							
loss	chr13	61919401	61934769																							
loss	chr13	61936206	61946756																							
loss	chr13	61953981	61968403																							
loss	chr13	61970773	61982057																							
loss	chr13	62068460	62084803																							
loss	chr13	62678311	62685544																							
loss	chr13	65329196	65379164																							
loss	chr13	65380108	65429564																							yes
loss	chr13	65430960	65463621																							yes
loss	chr13	65500813	65522892																							
loss	chr13	65530569	65617688																							yes
loss	chr13	65637614	65663779																							
loss	chr13	65675082	65734844																							
loss	chr13	65737240	65785470																							yes
loss	chr13	65793877	65860095																							
loss	chr13	65863200	65882443																							
loss	chr13	65886256	65939234																							yes
loss	chr13	65969235	66002144																							yes
loss	chr13	66003320	66015813																							
loss	chr13	66037158	66082310																							yes
loss	chr13	66083961	66169685																							yes
loss	chr13	66221033	66343875																							yes
loss	chr13	66349669	66432952																							yes
loss	chr13	66436309	66480706																							
loss	chr13	66491033	66518839																							yes
loss	chr13	66548840	66595165																							yes
loss	chr13	66603355	66634086																							yes
loss	chr13	66639574	66655913																							
loss	chr13	66681587	66694561																							



		C57BL																					
		C57			CAS			C57BL			PREP			C57B			CZE			C57B			
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	BALB/cByJ	KS/J	#3757/9	129Sv1/mJ	JclSid/kJ	DDY/L/6ByJ	NZO/HiLtJ	NOD/LtJ	CHI/EIJ	R/cd/J	Gene	Product	Full gene	Hybrid CNV	
loss	chr14	4686046	4695404																				
loss	chr14	4708608	4716524																				
loss	chr14	4722762	4753040																				
loss	chr14	4829598	4837006		-1																		
loss	chr14	5018929	5063093																				
loss	chr14	5124764	5132480																				
loss	chr14	5138947	5168933																				
loss	chr14	5245994	5258710		-1																		
loss	chr14	5426218	5433643																				
loss	chr14	5448804	5464163																				
loss	chr14	5471089	5502288																				
loss	chr14	5578847	5588472		-1																		
loss	chr14	5711816	5731011		-1																		
loss	chr14	6027410	6042808				-1																
loss	chr14	6136643	6149330		-1																		
loss	chr14	6162090	6171884																				
loss	chr14	6185130	6194236																				
loss	chr14	6199276	6229526																				
loss	chr14	18277937	18285127		-1																		
loss	chr14	18292107	18322318																				
loss	chr14	18399623	18408482																				
loss	chr14	24708414	24741492			-1	-1		-1	-1		-1				-1	-1		<i>Anxa11, Plac9</i>	annexin A11, placenta specific 9	yes		
loss	chr14	24742227	24760006			-1	-1		-1	-1		-1				-1	-1		<i>D14Ert4 49e</i>	hypothetical protein LOC66039			
loss	chr14	24761439	24777488			-1	-1		-1	-1		-1				-1	-1		<i>Cphx</i>	cytoplasmic polyadenylated homeobox			
loss	chr14	24778733	24795297			-1	-1		-1	-1		-1				-1	-1		<i>Cphx</i>	cytoplasmic polyadenylated homeobox			
loss	chr14	24797197	24803690			-1	-1		-1	-1		-1	-1			-1	-1						
loss	chr14	24808457	24836059			-1	-1		-1	-1		-1				-1	-1		<i>1110051B 16Rik</i>	hypothetical protein LOC278672	yes		
loss	chr14	24837535	24844719			-1			-1	-1		-1				-1	-1						
loss	chr14	24845895	24867014			-1	-1		-1	-1		-1				-1	-1		<i>Plac9</i>	placenta specific 9			
loss	chr14	24867969	24882417			-1	-1		-1	-1		-1				-1	-1		<i>Plac9</i>	placenta specific 9			
loss	chr14	24883087	24899679			-1	-1		-1	-1		-1				-1	-1		<i>D14Ert4 49e</i>	hypothetical protein LOC66039			
loss	chr14	24901809	24917426			-1	-1		-1	-1		-1				-1	-1		<i>Cphx</i>	cytoplasmic polyadenylated homeobox			
loss	chr14	24918371	24935194			-1	-1		-1	-1		-1				-1	-1		<i>Cphx</i>	cytoplasmic polyadenylated homeobox			
loss	chr14	24937134	24943849			-1	-1		-1	-1		-1				-1	-1						
loss	chr14	24946494	24970481			-1	-1		-1	-1		-1				-1	-1						
loss	chr14	24971696	24990399			-1	-1		-1	-1		-1				-1	-1						
loss	chr14	24991811	25062872			-1	-1		-1	-1		-1				-1	-1		<i>Plac9, D14Ert4 49e, Cphx</i>	placenta specific 9, hypothetical protein LOC66039, cytoplasmic polyadenylated homeobox	yes		

		C57BL/6J DDY/ PREP 129S JclSid C57B CZE C57B																							
		C57			CAS BPH BALB			C57BL #3757			1/Svl mJ			SeyFr kJ			L/6By NZO/			NOD/ CHI/ R/cd			Full Hybrid		
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	/2J	/cByJ	KS/J	9	9	9	9	9	9	9	9	9	9	9	Gene	Product	gene	CNV
loss	chr14	25064568	25074612				-1	-1		-1	-1		-1	-1						-1	-1	<i>Cphx</i>	cytoplasmic polyadenylated homeobox		
loss	chr14	25076072	25082817				-1			-1	-1														
loss	chr14	25086647	25126450				-1	-1		-1	-1		-1									-1	-1		
loss	chr14	40112411	40331492		-1		1	-1					-1		1,1							1,1			yes
loss	chr14	40673973	40898890		-1		-1,1	-1					-1		-1,1							-1,1	1		yes
loss	chr14	40907727	41238688		-1		-1,1,1	-1					-1		-1,1,1							-1	1,1		yes
loss	chr14	41248046	41552250		-1		1	-1					-1		1							1			yes
loss	chr14	41582251	41807886		-1		1,1	-1					-1		1,1							1,1	1		yes
loss	chr14	41837887	41965611		-1		1	-1					-1		1							1			yes
loss	chr14	41967492	41997023		-1			-1					-1												
loss	chr14	42005214	42045255		-1			-1					-1												
loss	chr14	42048142	42201502		-1		-1	1	-1	-1			-1												yes
loss	chr14	42260568	42376928		-1		-1	-1	-1	-1			-1									-1	-1		
loss	chr14	42392080	42415850		-1		-1	-1	-1	-1			-1									-1			
loss	chr14	42418497	42586254		-1		-1	1	-1				-1		1							1			yes
loss	chr14	42598210	42607832		-1			-1					-1												
loss	chr14	42615730	42634470		-1		1	-1					-1										1		yes
loss	chr14	42636177	42665684		-1			-1					-1												
loss	chr14	42707186	42754929					-1														-1	-1	-1	
loss	chr14	42762653	42771490					-1														-1			
loss	chr14	42815137	42820910					-1														-1		-1	
loss	chr14	42829789	42839620		-1			-1	-1													-1			
loss	chr14	42841518	42851369		-1				-1													-1	-1		
loss	chr14	42863149	42872005		-1				-1																
loss	chr14	42876792	42893348		-1			-1	-1													-1			
loss	chr14	42904903	42918790					-1														-1		-1	
loss	chr14	42926940	42963466					-1														-1	-1	-1	
loss	chr14	42968990	42975184																			-1		-1	
loss	chr14	43002582	43055377		-1			-1														<i>4930503E</i>			
loss	chr14	43061116	43099022		-1			-1														<i>14Rik</i>	hypothetical protein LOC74954	yes	
loss	chr14	43103629	43129041		-1			-1														-1			
loss	chr14	43136719	43217358		-1			-1	-1													-1	-1	-1	
loss	chr14	43227456	43244729					-1														-1	-1		
loss	chr14	43275920	43299043		-1			-1	-1													-1	-1	-1	
loss	chr14	43329044	43414512		-1			-1	-1													-1	-1	-1	
loss	chr14	43431060	43460824		-1			-1	-1													-1			
loss	chr14	43472365	43534039		-1			-1	-1													-1	-1		
loss	chr14	43562846	43600294		-1			-1	-1													-1	-1	-1	
loss	chr14	43634812	43660008		-1			-1	-1													-1	-1	-1	
loss	chr14	50151284	50157280						-1																
loss	chr14	50443276	50460565		-1				-1													<i>EG63869</i>	5	hypothetical protein LOC638695	
loss	chr14	50472784	50495331		-1				-1													<i>EG43445</i>	9,	hypothetical protein LOC434459,	
loss	chr14	50507366	50516702		-1				-1													5	hypothetical protein LOC638695		







		C57BL																					
		C57		CAS			C57BL		PREP		JclSid		C57B		CZE		C57B						
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	BALB/cByJ	KS/J	#3757/9	1/Svl/mJ	SeyFr/kJ	L/6By/J	NZO/HiLtJ	NOD/LtJ	CHI/EiJ	R/cd/J	Gene	Product	Full gene	Hybrid CNV	
loss	chr17	6966119	6977152																-1				
																					ribosomal protein S6 kinase, polypeptide		
loss	chr17	7149302	7169467		-1	-1			-1				-1	-1					-1	<i>Rps6ka2</i>	2		
loss	chr17	7171350	7181663	1	-1	-1			-1		-1		-1	-1					-1	<i>Tcp10a</i>	t-complex protein 10a		yes
																				<i>Tcp10a</i> , <i>Tcp10b</i>	t-complex protein 10a, t-complex protein 10b		yes
loss	chr17	7182621	7197266	1	-1	-1	-1		-1		-1		-1	-1					-1				yes
loss	chr17	7198221	7204981		-1	-1	-1		-1				-1						-1				
loss	chr17	7215025	7240714	1	-1	-1	-1		-1		-1		-1	-1					-1				yes
loss	chr17	7244802	7251308		-1	-1			-1				-1	-1					-1				
loss	chr17	7252503	7265221		-1	-1	-1		-1		-1		-1	-1					-1				
loss	chr17	7266187	7284379		-1	-1			-1		-1		-1	-1					-1				
loss	chr17	7838880	7849680																-1				
loss	chr17	7851145	7858345																-1				
loss	chr17	12866647	12881496		-1	-1	-1		-1		-1		-1	-1					-1				
loss	chr17	12882471	12894934		-1	-1	-1		-1		-1		-1	-1					-1				
																				<i>Tcp10c</i> , <i>Tcp10a</i>	t-complex protein 10c, t-complex protein 10a		
loss	chr17	12895674	12906482		-1	-1			-1		-1		-1	-1					-1				
loss	chr17	12908855	12919172		-1	-1	-1		-1		-1		-1	-1					-1	<i>Tcp10c</i>	t-complex protein 10c		
loss	chr17	12920894	12936488		-1	-1	-1		-1		-1		-1	-1					-1	<i>Tcp10c</i>	t-complex protein 10c		
loss	chr17	12937218	12944656		-1	-1	-1		-1		-1		-1	-1					-1				
loss	chr17	12954256	12963845	1	-1	-1			-1		-1		-1	-1					-1	<i>Unc93a</i>	unc-93 homolog A		yes
loss	chr17	12964803	12973183		-1	-1			-1		-1		-1	-1					-1	<i>Unc93a</i>	unc-93 homolog A		
loss	chr17	12974145	12980881		-1	-1	-1		-1		-1		-1	-1					-1	<i>Unc93a</i>	unc-93 homolog A		
loss	chr17	12984454	13019525	1	-1	-1	-1		-1		-1		-1	-1					-1				yes
loss	chr17	13020500	13035592	1	-1	-1	-1		-1		-1		-1	-1					-1				yes
loss	chr17	13038488	13050693	1	-1	-1	-1		-1		-1		-1	-1					-1				yes
loss	chr17	13054077	13131620	1,1,1	-1	-1	-1		-1		-1		-1	-1				1	-1				yes
loss	chr17	13139776	13174296		-1	-1	-1		-1		-1		-1	-1					-1	<i>Tcp10a</i>	t-complex protein 10a		
loss	chr17	13182950	13192300	1	-1	-1	-1		-1		-1		-1	-1					-1				yes
loss	chr17	13193268	13226373	1	-1	-1	-1		-1		-1		-1	-1					-1				yes
loss	chr17	13229997	13254960	1	-1	-1	-1		-1		-1		-1	-1					-1				yes
loss	chr17	13255655	13262178		-1	-1	-1		-1		-1		-1	-1					-1				
loss	chr17	13284738	13292176		-1	-1	-1		-1		-1		-1	-1					-1				
loss	chr17	13293587	13304409		-1	-1	-1		-1		-1		-1	-1					-1				
loss	chr17	13305862	13314486		-1	-1			-1		-1		-1	-1					-1				
loss	chr17	13319539	13342340		-1	-1	-1		-1		-1		-1	-1					-1				
loss	chr17	16836474	16844905						-1														
loss	chr17	17793336	17800558						-1														
loss	chr17	17861258	17870648						-1														
loss	chr17	18279031	18289798						-1		-1		-1						-1				
loss	chr17	18296551	18326789																-1				
loss	chr17	18327958	18377389																-1				
loss	chr17	18381198	18395100								-1								-1				
loss	chr17	18399902	18418381																-1				
loss	chr17	18421522	18463780																-1				
loss	chr17	18501832	18521732																-1				
loss	chr17	18537374	18542864																-1				
loss	chr17	18565683	18571458																-1				
loss	chr17	18621733	18629926																-1				

		C57BL																		Full	Hybrid				
		C57		CAS				C57BL				CZE		C57B				gene	Product	gene	CNV				
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	BALB/cByJ	9	PREP/1/Svl	129S/mJ	DDY/JclSid	C57B/L/6By	NZO/HiLtJ	NOD/LtJ	CHI/EiJ	R/cd	Gene	Product	Full	Hybrid			
loss	chr17	18651493	18666900																						
loss	chr17	18672852	18693523																-1						
loss	chr17	18751097	18830065																-1						
loss	chr17	18942546	18973989																-1						
loss	chr17	18981669	18987881																-1						
loss	chr17	19011024	19022833																-1						
loss	chr17	19032174	19054706																-1						
loss	chr17	19296091	19310480				-1	-1		-1	-1				-1				-1						
loss	chr17	19314575	19320599					-1											-1						
loss	chr17	19433439	19453837					-1											-1						
loss	chr17	20785692	20791175						-1										-1						
loss	chr17	20826714	20835855						-1										-1						
loss	chr17	20837522	20851940						-1										-1						
loss	chr17	20855020	20861288				-1												-1						
loss	chr17	20867056	20875915				-1	-1											-1						
loss	chr17	20878335	20884305				-1												-1						
loss	chr17	20889839	20899179				-1	-1											-1						
loss	chr17	20901094	20915295				-1	-1											-1						
loss	chr17	21599116	21611566							-1									-1						
loss	chr17	21921429	21928389				-1			-1	-1								-1						
loss	chr17	22621934	22628885					-1		-1	-1								-1						
loss	chr17	22635106	22649791					-1											-1						
loss	chr17	22656263	22662463					-1			-1								-1						
loss	chr17	22663423	22684802			-1	-1	-1		-1	-1								-1						
loss	chr17	22693712	22712161			-1	-1			-1	-1								-1						
loss	chr17	22713607	22720108				-1	-1		-1	-1								-1						
loss	chr17	22721033	22741983			-1	-1	-1		-1	-1								-1						
loss	chr17	22841443	22855149			-1	-1	-1		-1	-1								-1						
loss	chr17	22862093	22878206			-1	-1	-1		-1	-1								-1						
loss	chr17	23037383	23057584							-1									-1						
loss	chr17	23607929	23613644				-1				-1									<i>Dcpp1</i>	demilune cell and parotid protein		yes		
loss	chr17	23624699	23632121																-1	<i>Dcpp2</i>	demilune cell and parotid protein 2		yes		
loss	chr17	23640284	23649402					-1	-1										-1	<i>Dcpp3</i>	demilune cell and parotid protein 3		yes		
loss	chr17	30352120	30361277																-1	-1					
loss	chr17	34923289	34929316																-1						
loss	chr17	34991713	35019283				-1			-1									-1	<i>H2-Q1</i>	histocompatibility 2, Q region locus 1				
loss	chr17	35020048	35035612							-1									-1	<i>H2-Q8</i>	histocompatibility 2, Q region locus 8		yes		
loss	chr17	35037537	35070883							-1									-1	<i>H2-Q6</i>	histocompatibility 2, Q region locus 6				
loss	chr17									-1									-1	<i>H2-Q7</i>	histocompatibility 2, Q region locus 7		yes		
loss	chr17																		-1	<i>H2-T9, H2-K1, EG54734</i>	histocompatibility 2, T region locus 9, histocompatibility 2, K1, K region isoform				
loss	chr17	35644027	35651467																-1	<i>7</i>	2, H2-GS14-2 antigen		yes		
loss	chr17	35673057	35691762			-1				-1									-1	<i>H2-BI</i>	histocompatibility 2, blastocyst				
loss	chr17	35698975	35708109			-1	-1												-1						
loss	chr17																		-1	<i>H2-T10, EG54734</i>	histocompatibility 2, T region locus 10, H2-GS14-2 antigen		yes		
loss	chr17	35724225	35731680				-1												-1	<i>7</i>					
loss	chr17	35734290	35740075			-1	-1												-1	<i>7</i>	H2-GS14-2 antigen				



Type	Chr	Start	End	C57BL													Gene	Product	Full gene	Hybrid CNV			
				BL/10J	DBA/2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	#3757 9	129Sv1 1/Svl mJ	JclSid SeyFr kJ	C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ	C57B R/cd J							
loss	chr19	8228575	8276573																	<i>D630002</i> <i>G06Rik</i>	hypothetical protein LOC236293		
loss	chr19	8282563	8322329																	<i>D630002</i> <i>G06Rik</i>	hypothetical protein LOC236293		
loss	chr19	8324500	8344687																				
loss	chr19	8349012	8364611																				
loss	chr19	8399642	8405849																	<i>C730048</i> <i>C13Rik</i>	integral membrane transport protein UST1R		
loss	chr19	8408264	8454821																	<i>C730048</i> <i>C13Rik</i>	integral membrane transport protein UST1R		
loss	chr19	8464683	8472820																	<i>C730048</i> <i>C13Rik</i>	integral membrane transport protein UST1R		
loss	chr19	9324302	9351230			-1	-1			-1													
loss	chr19	9357669	9364396			-1				-1													
loss	chr19	9369917	9378075			-1	-1			-1													
loss	chr19	9379055	9385545				-1			-1													
loss	chr19	9390064	9411683				-1			-1													
loss	chr19	9414786	9427736			-1	-1			-1													
loss	chr19	9428745	9435451			-1	-1			-1													
loss	chr19	9459465	9468073			-1	-1			-1	-1												
loss	chr19	9480340	9486105			-1				-1													
loss	chr19	9585888	9613766			-1	-1			-1													
loss	chr19	9643528	9650442			-1	-1			-1													
loss	chr19	9651410	9663205			-1	-1			-1													
loss	chr19	9666762	9673261			-1	-1			-1													
loss	chr19	9679724	9690065			-1	-1			-1													
loss	chr19	9692923	9702547			-1	-1			-1													
loss	chr19	9706127	9714797			-1	-1			-1													
loss	chr19	9724607	9733260			-1	-1			-1													
loss	chr19	9734712	9750040			-1				-1													
loss	chr19	12233285	12240245			-1	-1			-1													
loss	chr19	12240975	12253000			-1				-1													
loss	chr19	12283714	12289754			-1				-1													
loss	chr19	12291653	12307265			-1	-1	1	-1	-1													yes
loss	chr19	33552157	33565375				-1																
loss	chr19	33576200	33582924				-1																
loss	chr19	33625381	33642861																	<i>A1747699</i>	hypothetical protein LOC381236		
loss	chr19	33646981	33657307																	<i>A1747699</i>	hypothetical protein LOC381236		
loss	chr19	33678384	33685864																				
loss	chr19	33698316	33746050																				
loss	chr19	33747445	33787282																				
loss	chr19	33789209	33809617																				

Type	Chr	Start	End	C57BL										Gene	Product	Full gene	Hybrid CNV				
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	DDY/ JclSid SeyFr kJ					C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ	C57B R/cd J	
loss	chr19	33815172	33840126				-1								-1		1				
loss	chr19	33842254	33861203												-1						
loss	chr19	34651165	34677845				-1			-1					-1		-1	<i>Ifit3</i> , <i>LOC6673</i> <i>70</i>	interferon-induced protein with, similar to interferon-induced protein with		
loss	chr19	39651639	39666270									-1						<i>C730004</i> <i>C24Rik</i>	hypothetical protein LOC545288		
loss	chr19	39769732	39783655									-1				-1					
loss	chr19	39842227	39850601									-1									
loss	chr19	39890667	39901013									-1									
loss	chr19	39917590	39926227									-1			-1						
loss	chr2	11767148	11782982				-1														
loss	chr2	14325063	14338998															-1	<i>Slc39a12</i>	solute carrier family 39 (zinc transporter),	
loss	chr2	23088060	23100492				-1											-1			
loss	chr2	54513475	54532922		-1	-1	-1					-1	-1			-1	-1				
loss	chr2	54821455	54827475				-1						-1			-1					
loss	chr2	54829874	54839924		-1	-1	-1					-1	-1			-1	-1				
loss	chr2	83747767	83794554		-1	-1				-1					-1						
loss	chr2	87026567	87040852															-1			
loss	chr2	87053828	87066269															-1			
loss	chr2	89008824	89046496		-1	-1			-1					-1	-1						
loss	chr2	89975622	89996530											-1			-1	-1			
loss	chr2	90000338	90011144											-1			-1				
loss	chr2	90022414	90042118											-1			-1	-1			
loss	chr2	90112894	90126844											-1			-1	-1	<i>Olfr1506</i>	olfactory receptor 1506	yes
loss	chr2	90137611	90184187											-1			-1	-1			
loss	chr2	90188757	90201469														-1				
loss	chr2	90223085	90235564											-1			-1				
loss	chr2	90236248	90243468											-1			-1	-1	<i>Ptprj</i>	protein tyrosine phosphatase, receptor type, J	
loss	chr2	100252068	100258057		-1												-1				
loss	chr2	100259009	100265474		-1												-1				
loss	chr2	100267872	100288510		-1	-1	-1		-1			-1	-1		-1	-1	-1				
loss	chr2	100300992	100319958		-1	-1	-1		-1			-1	-1		-1	-1	-1				
loss	chr2	100321390	100339659		-1	-1	-1		-1			-1	-1		-1	-1	-1				
loss	chr2	100348545	100364640		-1	-1	-1		-1			-1	-1		-1	-1	-1				
loss	chr2	100365560	100372068		-1	-1	-1		-1			-1					-1				
loss	chr2	100373512	100380238		-1	-1			-1			-1	-1			-1	-1				
loss	chr2	100381642	100390060		-1	-1			-1			-1	-1		-1		-1				
loss	chr2	100391950	100398716						-1			-1	-1								
loss	chr2	100400110	100416481		-1				-1			-1	-1		-1	-1					
loss	chr2	100417686	100426806		-1	-1	-1		-1			-1	-1		-1	-1					
loss	chr2	100428261	100455123		-1	-1	-1		-1			-1	-1		-1	-1	-1				
loss	chr2	100461166	100468601		-1	-1	-1		-1			-1					-1				
loss	chr2	100469326	100492102		-1	-1	-1		-1			-1	-1		-1	-1	-1				
loss	chr2	100499790	100509123		-1	-1			-1			-1	-1		-1	-1	-1				







Type	Chr	Start	End	C57		CAS	BPH	BALB	C57BL	C57BL		129S	JclSid	C57B	CZE	C57B	Full	Hybrid		
				BL/10J	DBA/2J					PREP/9	#3757								DDY/1/Svl	DDY/SeyFr
loss	chr4	42624092	42674052	-1	-1	-1		-1				-1	-1	-1		-1	-1	<i>Ccl21c</i> , chemokine (C-C motif) ligand 21c (serine), chemokine (C-C motif) ligand 21b (leucine)	yes	
loss	chr4	42675247	42684573	-1	-1	-1		-1				-1	-1			-1	-1	<i>Il11ra2</i> interleukin 11 receptor, alpha chain 2	yes	
loss	chr4	42685558	42695139	-1	-1	-1		-1				-1	-1			-1	-1	<i>Il11ra2</i> interleukin 11 receptor, alpha chain 2		
loss	chr4	42696104	42709294	-1	-1	-1		-1				-1	-1			-1	-1			
loss	chr4	42710485	42724167	-1	-1	-1		-1	-1			-1	-1			-1	-1			
loss	chr4	42729247	42740502	-1	-1	-1		-1				-1	-1			-1	-1			
loss	chr4	42741252	42790214	-1	-1	-1		-1				-1	-1			-1	-1	<i>Ccl19</i> chemokine (C-C motif) ligand 19	yes	
loss	chr4	42792091	42799812	-1	-1	-1	-1	-1				-1	-1			-1	-1	<i>Ccl21b</i> chemokine (C-C motif) ligand 21a (serine)	yes	
loss	chr4	42800768	42806283	-1	-1	-1		-1				-1	-1			-1	-1			
loss	chr4	42810568	42818998	-1	-1	-1		-1				-1	-1			-1	-1			
loss	chr4	42821127	42840105	-1	-1	-1		1	-1			-1	-1		1	1	-1	-1		yes
loss	chr4	42852566	42859574					-1												yes
loss	chr4	42865806	42886891	-1	-1	-1		1	-1			-1	-1		1	1	-1	-1		yes
loss	chr4	60134078	60286461				-1	-1										<i>Mup2</i> major urinary protein 2	yes	
loss	chr4	60292718	60412567				-1	-1												
loss	chr4	60442568	60453148				-1	-1												
loss	chr4	60472103	60496595				-1											<i>Mup1</i> major urinary protein 1	yes	
loss	chr4	60503574	60606969				-1	-1												
loss	chr4	60613226	60671478				-1	-1										<i>Mup1</i> , <i>Mup2</i> major urinary protein 1, major urinary protein 2	yes	
loss	chr4	60701479	60916043				-1	-1												
loss	chr4	60946044	61043293				-1	-1												
loss	chr4	61052629	61134472				-1	-1												
loss	chr4	61139293	61294524				-1	-1								1				
loss	chr4	61296934	61304809				-1	-1												
loss	chr4	61336056	61338478				-1	-1												
loss	chr4	72887840	72896026															<i>OTTMUS</i> <i>G000000</i> <i>01246</i> hypothetical protein LOC433719		
loss	chr4	73090334	73164984				1,1,1,1											<i>LOC4337</i> <i>21</i> , <i>LOC4337</i> <i>20</i> , <i>LOC5485</i> <i>97</i> , <i>LOC4337</i> <i>22</i> , <i>Gm428</i> hypothetical protein LOC433721, hypothetical protein LOC433720, hypothetical protein LOC548597, hypothetical protein LOC433722, hypothetical protein LOC242502	yes	yes
loss	chr4	73343730	73392433																	
loss	chr4	111731045	111738484	-1	-1	-1		-1	-1			-1						<i>A430090</i> <i>E18Rik</i> hypothetical protein LOC195564		
loss	chr4	111742103	111752639	-1	-1	-1		-1				-1						<i>A430090</i> <i>E18Rik</i> hypothetical protein LOC195564		
loss	chr4	111753840	111781003	-1	-1	-1		-1				-1						<i>A430090</i> <i>E18Rik</i> hypothetical protein LOC195564		



Type	Chr	Start	End	C57BL																Full gene	Hybrid CNV
				BL/10J	DBA/2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	JclSid DDY/ SeyFr kJ	C57B L/6By J	NZO/ HiLtJ	NOD/ LtJ	CZE CHI/ EIJ	C57B R/cd J	Gene		
loss	chr4	112984290	112999409		-1	-1	-1		-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr4	113002090	113009958								-1						-1				
loss	chr4	113140757	113143195								-1						-1				
loss	chr4	113153249	113170037		-1	-1	-1		-1	-1			-1	-1			-1				
loss	chr4	113291670	113298390								-1						-1				
loss	chr4	113300310	113316992								-1						-1				
loss	chr4	113629389	113639493								-1						-1				
loss	chr4	113768321	113782503								-1						-1				
loss	chr4	113788962	113797376				-1				-1						-1				
loss	chr4	120839498	120854143					-1													
loss	chr4	121112513	121119488																		-1
loss	chr4	121174685	121180714																		-1
loss	chr4	121182378	121188878			-1															-1
loss	chr4	121220767	121227244																		-1
loss	chr4	121232561	121273586		-1	-1		-1			-1	-1					-1				-1
loss	chr4	121329283	121365721		-1	-1		-1			-1	-1					-1				-1
loss	chr4	121367436	121374394			-1					-1						-1				-1
loss	chr4	121383523	121400276		-1	-1					-1						-1				-1
loss	chr4	121408216	121423562		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121424792	121439892		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121440619	121456433		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121459083	121465569		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121468916	121477040		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121605164	121608527		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121609248	121632332		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121634251	121649366		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121655851	121671692		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121680047	121703614		-1	-1		-1			-1	-1					-1				-1
loss	chr4	121706445	121713433																		-1
loss	chr4	121720396	121758532		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121759524	121765754								-1										-1
loss	chr4	121776317	121819492		-1	-1		-1			-1	-1					-1				-1
loss	chr4	121820448	121833417		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121834372	121847846		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121851916	121869965		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121899966	121911006		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121917536	121933853		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121953736	121965252		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121968618	121976540		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	121982069	122020972			-1		-1			-1	-1					-1				-1
loss	chr4	122022143	122029597		-1	-1	-1	-1			-1	-1					-1				-1
loss	chr4	122037739	122046651			-1		-1			-1	-1									-1
loss	chr4	122137811	122156530					-1													-1
loss	chr4	122189682	122197841					-1													9530002B 09Rik palmitoyl-protein thioesterase-like protein
loss	chr4	122200976	122216575					-1													9530002B 09Rik palmitoyl-protein thioesterase-like protein

Type	Chr	Start	End	C57		CAS	BPH	BALB	C57BL	C57BL		129S	DDY/	C57B	CZE	C57B	Gene	Product	Full gene	Hybrid CNV
				BL/10J	DBA/2J					PREP/9	#3757									
loss	chr4	142782610	142803962					-1				-1				-1		10207	hypothetical protein LOC545693	
loss	chr4	142806133	142821243			-1	-1					-1				-1				
loss	chr4	142823408	142833029		-1															
loss	chr4	142877191	142883190				-1					-1								
loss	chr4	142930401	142939055																	
loss	chr4	143116151	143123106		-1									-1				10433	hypothetical protein LOC194225	
loss	chr4	143331282	143346365				-1					-1						Pramel4	preferentially expressed antigen in melanoma	yes
loss	chr4	143370392	143387911				-1					-1	-1					Pramel4, OTTMUS G000000	preferentially expressed antigen in melanoma, hypothetical protein LOC100038764	yes
loss	chr4	144738725	144748562																	
loss	chr4	144760999	144782863																	
loss	chr4	144807118	144816439																	
loss	chr4	144863271	144869718																	
loss	chr4	144919643	144978455				1				1	1			1	-1				yes
loss	chr4	145013959	145032960				-1													
loss	chr4	145041597	145050712		-1															
loss	chr4	145053364	145064123				-1													
loss	chr4	145069923	145098724		-1		-1							-1				1700029/01Rik, OTTMUS G000000	hypothetical protein LOC70005, hypothetical protein LOC666532	yes
loss	chr4	145102799	145118392																	
loss	chr4	145119322	145141404		-1		-1							-1						
loss	chr4	145144038	145176662		-1		-1							-1						
loss	chr4	145206663	145247977		-1		-1							-1						
loss	chr4	145255408	145263306		-1		-1							-1						
loss	chr4	145281590	145292591				-1							-1						
loss	chr4	145327182	145334107											-1						
loss	chr4	145338187	145347314		1						1			-1				1		yes
loss	chr4	145348510	145355024											-1						
loss	chr4	145363392	145375189		-1	-1		-1			-1	-1		-1						
loss	chr4	145382606	145400612		-1		-1							-1						
loss	chr4	145404424	145417633				-1							-1						
loss	chr4	145419343	145435154											-1						
loss	chr4	145517193	145550037																	
loss	chr4	145555357	145567549															MGC1178	hypothetical protein LOC626316	
loss	chr4	145576453	145615565													1				yes
loss	chr4	145616790	145638111																	
loss	chr4	145678697	145689754				-1							-1						

		C57BL																					
		C57			CAS BPH BALB			C57BL			PREP 129S		JclSid C57B		CZE		C57B						
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	BALB/cByJ	C57BL/KS/J	#3757/9	1/Svl/mJ	SeyFr/kJ	L/6By/J	NZO/HiLtJ	NOD/LtJ	CHI/EIJ	R/cd/J	Gene	Product	Full gene	Hybrid CNV	
loss	chr4	145700787	145711084		-1										-1		-1						
loss	chr4	145720714	145726718															-1					
loss	chr4	145799658	145823896															-1					
loss	chr4	145827221	145839210															-1					
loss	chr4	145848820	145908116															-1	<i>Rex2</i>	reduced expression 2	yes		
loss	chr4	145949376	145956110				-1								-1								
loss	chr4	145957297	145964249				-1																
loss	chr4	145968364	145974369		-1																		
loss	chr4	145981063	145990894		-1		-1								-1			-1					
loss	chr4	145992336	146000769		-1		-1								-1			-1					
																			<i>OTTMUS</i>				
																			<i>G000000</i>				
loss	chr4	146002201	146026415		-1		-1						-1		-1			-1	<i>10671</i>	hypothetical protein LOC195531			
loss	chr4	146030534	146054992		-1								-1		-1			-1					
loss	chr4	146056444	146063612				-1											-1					
loss	chr4	146071815	146083326															-1					
loss	chr4	146085695	146095563															-1					
loss	chr4	146097246	146106138															-1					
loss	chr4	146111370	146121214															-1					
loss	chr4	146125535	146244858				1	1				1			1,1,1		-1				yes		
loss	chr4	146259974	146278207		-1										-1			-1					
loss	chr4	146285391	146296933		-1													-1					
loss	chr4	146304812	146318136															-1					
loss	chr4	146373690	146406834															-1					
																			<i>OTTMUS</i>				
																			<i>G000000</i>				
loss	chr4	146424358	146438046															-1	<i>10673</i>	hypothetical protein LOC433804			
																			<i>2610305D</i>				
loss	chr4	146457729	146504491													1,1		-1	<i>13Rik</i>	hypothetical protein LOC112422		yes	
loss	chr4	146513361	146575783				1								1,1			-1				yes	
loss	chr4	146599079	146625488					1									1		-1			yes	
loss	chr4	146628083	146635285																-1				
loss	chr5	4177513	4185911		-1	-1				-1													
loss	chr5	26327485	26333760				-1																
loss	chr5	26336145	26372859				-1											1,1		<i>Speer4a</i>	spermatogenesis associated glutamate (E)-rich	yes	yes
																			<i>5031410I</i>				
loss	chr5	26381518	26454459				-1					1						1,1,1	<i>06Rik</i>	hypothetical protein LOC381622	yes	yes	
loss	chr5	33041137	33059867					-1											<i>Pisd</i>	phosphatidylserine decarboxylase			
loss	chr5	42750216	42756459																				
loss	chr5	76414862	76740354		-1		-1	-1	-1			-1	-1				-1	-1	<i>AU01882</i>	9	hypothetical protein LOC545762	yes	
																			<i>AU01882</i>				
loss	chr5	76770355	76807316		-1		-1	-1	-1			-1	-1				-1	-1	<i>AU01882</i>	9	hypothetical protein LOC545762	yes	
loss	chr5	76814801	76937769		-1		-1	-1	-1			-1	-1				-1	-1					
																			<i>AU01882</i>				
loss	chr5	76967770	77137222		-1		-1	-1	-1			-1	-1				-1	-1	<i>AU01882</i>	9	hypothetical protein LOC545762	yes	
loss	chr5	94440128	94450885				-1	-1	-1			-1	-1				-1	-1					
loss	chr5	94468676	94492204		-1		-1	-1	-1			-1	-1				-1	-1					





Type	Chr	Start	End	C57BL															Full gene	Hybrid CNV	
				C57			CAS			BALB			C57BL			CZE					C57B
				BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	/cByJ	K5/J	PREP/9	129S/1mJ	JclSid/kJ	C57B/L/6ByJ	NZO/HiLtJ	NOD/LtJ	CHI/EIJ	R/cdJ	Gene	Product	
loss	chr6	69499297	69518994				-1										-1				
loss	chr6	69530049	69552082				-1										-1				
loss	chr6	69557385	69568686				-1										-1				
loss	chr6	69582091	69616349				-1										-1				
loss	chr6	69625933	69631728														-1				
loss	chr6	69709070	69743891				-1														
loss	chr6	69746301	69759468				-1														
loss	chr6	70025230	70037037				-1										-1	-1			
loss	chr6	70093806	70109406				-1										-1				
loss	chr6	70428480	70447911														-1				
loss	chr6	70450547	70472672														-1	-1			
loss	chr6	70474549	70493518				-1										-1				
loss	chr6	70517746	70526669				-1										-1				
loss	chr6	70539391	70584988				-1										-1				
loss	chr6	70589023	70595262														-1				
loss	chr6	74901702	74907936														-1				
loss	chr6	74925739	74938465				-1														
loss	chr6	74951179	74960757														-1				
loss	chr6	75023155	75028895								-1										
loss	chr6	75245552	75251823		-1	-1						-1	-1								
loss	chr6	75254203	75267665		-1	-1		-1	-1			-1	-1				-1	-1			
loss	chr6	75419062	75424564			-1						-1	-1								
loss	chr6	85643147	85648715				-1						-1						<i>Alms1</i>	Alstrom syndrome 1	
loss	chr6	85650873	85659226				-1														
loss	chr6	85660673	85680350										-1						<i>Alms1</i>	Alstrom syndrome 1	
loss	chr6	85682284	85689025										-1								
loss	chr6	85708910	85717107				-1														
loss	chr6	85744922	85750921				-1														
loss	chr6	89139734	89174059	-1	-1	-1	1				1	-1	-1	1	1	1	1	1	-1		yes
loss	chr6	111074613	111080383								-1										
loss	chr6	111083729	111090718								-1										
loss	chr6	111091894	111099350				-1				-1										
loss	chr6	114455341	114603852	-1		-1					1		1	1	1	1	1		1		yes
loss	chr6	121909412	121921660				-1														
loss	chr6	121925980	121948883				-1														
loss	chr6	121955855	121974058		-1	-1	-1	-1	-1	-1	-1	-1	-1				-1	-1	<i>Mug4</i>	murinoglobulin 4	
loss	chr6	121975535	121987976								-1	-1	-1								
loss	chr6	121990861	122002643				-1												<i>Mug4, Mug2, Mug4, Mug2</i>	murinoglobulin 4, murinoglobulin 2	
loss	chr6	122003849	122015815				-1												<i>Mug4, Mug2</i>	murinoglobulin 4, murinoglobulin 2	
loss	chr6	122024489	122037177				-1												<i>Mug2</i>	murinoglobulin 2	
loss	chr6	122117844	122142057		-1	-1	-1	-1	-1	-1	-1	-1	-1				-1	-1			
loss	chr6	122144501	122159592				-1	-1	-1	-1	-1	-1	-1				-1	-1			
loss	chr6	122174984	122186940				-1														
loss	chr6	123359648	123367601					-1			-1	-1					-1				
loss	chr6	123368331	123376228				-1	-1	-1	-1	-1	-1	-1				-1	-1			
loss	chr6	123381050	123386772					-1			-1	-1									
loss	chr6	123389652	123406496				-1				-1						-1				



Type	Chr	Start	End	C57		CAS		BALB		C57BL		C57BL		CZE		C57B		Gene	Product	Full gene	Hybrid CNV	
				BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	/cByJ	KS/J	#3757/9	129S/1/Svl	DDY/JclSid	C57B/L/6By	NZO/HiLtJ	NOD/LtJ	CHI/EIJ					R/cd
loss	chr6	130232132	130250609		-1	-1		-1	-1	-1	-1		-1						<i>Klra10</i>	killer cell lectin-like receptor subfamily A,	yes	
loss	chr6	130262640	130269136					-1	-1				-1						<i>Klra23, Klra12</i>	killer cell lectin-like receptor subfamily A,		
loss	chr6	130275378	130299615		-1	-1	-1		-1	-1			-1						<i>Klra3</i>	killer cell lectin-like receptor, subfamily A,		
loss	chr6	130304133	130310860					-1					-1							-1		
loss	chr6	130320718	130328651					-1					-1							-1		
loss	chr6	130839665	130851200										-1									
loss	chr6	130857440	130866534										-1									
loss	chr6	131454988	131465546											-1								
loss	chr6	131492026	131510717		-1	-1	-1		-1	-1			-1									
loss	chr6	131519594	131529231																	-1		
loss	chr6	131533994	131552494		-1	-1	-1		-1	-1										-1		
loss	chr6	132020296	132033017											-1								
loss	chr6	132046673	132055577				-1		-1	-1			-1		-1							
loss	chr6	132073770	132200264										-1						<i>EG11460</i>	proline rich protein MP4, proline-rich proteoglycan 2	yes	
loss	chr6	132204128	132226891				-1						-1									
loss	chr6	132231253	132266036				-1			-1			-1		-1							
loss	chr6	132274677	132370653										-1						<i>Prmp5, EG11460</i>	proline-rich protein MP5, proline rich protein MP4	yes	
loss	chr6	132399672	132406671										-1						<i>EG38181</i>	8	hypothetical protein LOC381818	
loss	chr6	132769203	132784281				-1	-1		-1	-1		-1		-1							
loss	chr6	132786010	132804026		-1	-1	-1		-1	-1			-1		-1							
loss	chr6	132952847	132966242		-1	-1	-1		-1	-1			-1		-1							
loss	chr6	132967007	132982811		-1	-1	-1		-1	-1			-1		-1							
loss	chr6	133242952	133252537										-1									
loss	chr6	133511167	133518614				-1		-1	-1												
loss	chr7	3319186	3332649		-1			-1	-1				-1						-1	<i>Lilrb3</i>	paired-Ig-like receptor B	
loss	chr7	3335040	3348957		-1			-1					-1						-1	<i>Pira6</i>	paired-Ig-like receptor A6 isoform b	
loss	chr7	3358815	3404154		-1	-1		-1	-1				-1		-1				-1	<i>Pira6</i>	paired-Ig-like receptor A6 isoform b	
loss	chr7	3413545	3436067		-1	-1	1	-1	-1				-1		-1				-1			yes
loss	chr7	3440152	3454099		-1			-1					-1		-1				-1	<i>Pira2</i>	paired-Ig-like receptor A2	yes
loss	chr7	3463955	3480249		-1	-1		-1	-1				-1		-1				-1	<i>Pira6</i>	paired-Ig-like receptor A6 isoform a	
loss	chr7	3484575	3506889		-1	-1		-1	-1				-1		-1				-1	<i>Pira6, Pira1, Pira4</i>	paired-Ig-like receptor A6 isoform a, paired-Ig-like receptor A1, paired-Ig-like receptor A4	
loss	chr7	3510496	3519139		-1			-1					-1		-1				-1	<i>Pira3, Pira6</i>	paired-Ig-like receptor A3, paired-Ig-like receptor A6 isoform a	yes
loss	chr7	3875160	3887394		-1			-1					-1		-1				-1	<i>Pira6</i>	paired-Ig-like receptor A6 isoform b, paired-Ig-like receptor A6 isoform a	yes
loss	chr7	4978667	4990913					-1														
loss	chr7	6594689	6601930										-1		-1					<i>Aurkc</i>	aurora kinase C isoform a	
loss	chr7	6605766	6621120				-1	-1	-1	-1			-1		-1				-1	<i>Aurkc</i>	aurora kinase C isoform a	





		C57BL																				
		C57						/6J				DDY/				CZE		C57B				
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	JclSid SeyFr kJ	C57B L/6By J	NZO/ HiLtJ	NOD/ LtJ	CHI/ EIJ	R/cd J	Gene	Product	Full gene	Hybrid CNV
loss	chr7	10462627	10491428			-1	-1	-1	-1				-1		-1	-1	-1	-1				
loss	chr7	10499107	10505302										-1						-1			
loss	chr7	10512982	10521393			-1	-1	-1	-1				-1		-1	-1	-1	-1				
loss	chr7	10527188	10532903				-1						-1		-1			-1				
loss	chr7	12596668	12609347				-1															
loss	chr7	12690258	12702985				-1															
loss	chr7	12758161	12771364				-1															
loss	chr7	12845924	12861758				-1															
loss	chr7	12888443	12909762				-1															
loss	chr7	12922240	12929240				-1															
loss	chr7	13906884	13931630												-1	-1						
loss	chr7	14027383	14175004												-1	-1						
loss	chr7	14281288	14301440												-1							
loss	chr7	14312485	14329562												-1							
loss	chr7	14484468	14492616												-1							
loss	chr7	14500523	14507002												-1				<i>Obox1</i>	oocyte specific homeobox 1	yes	
loss	chr7	14521166	14539160												-1							
loss	chr7	14688817	14698648												-1							
loss	chr7	14706812	14713270												-1							
loss	chr7	14819555	14832516			-1	-1						-1				-1					
loss	chr7	16413669	16419676			-1						-1										
loss	chr7	16424492	16449685			-1							-1									
loss	chr7	16464336	16498877			-1	-1					-1			-1	-1						
loss	chr7	16510641	16521685			-1	-1					-1			-1	-1	-1					
loss	chr7	16523140	16530838			-1	-1					-1	-1				-1					
loss	chr7	16544997	16559119			-1	-1					-1	-1				-1					
loss	chr7	16574003	16581447			-1	-1					-1	-1		-1	-1						
loss	chr7	16583397	16598468			-1	-1					-1	-1				-1					
loss	chr7	16602592	16629937			-1	-1					-1	-1				-1					
loss	chr7	16634955	16642151			-1	-1					-1	-1				-1					
loss	chr7	16645509	16667111			-1	-1					-1	-1				-1					
loss	chr7	16670755	16721593			-1	-1					-1	-1				-1					
loss	chr7	16743194	16752354			-1	-1					-1	-1				-1					
loss	chr7	19219611	19231601			-1	-1					-1	-1				-1	-1	<i>Nlrp9b</i>	NACHT, LRR and PYD containing protein 9b		
loss	chr7	19236135	19288481	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	19292063	19395060	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1	<i>V1rd21</i>	vomeronasal 1 receptor, D21	yes	
loss	chr7	19415448	19448578	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	19463685	19525330	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	19527295	19580530	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	19590648	19656885	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	19664088	19782137	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	19785257	19863439	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	19893440	19945330	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	19953947	20093126	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	20099641	20168049	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	20175687	20200436	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	20212401	20426724	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	20435882	20472370	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				

Type	Chr	Start	End	C57BL																	Full gene	Hybrid CNV
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	PREP #3757 9	129S 1/Svl mJ	JclSid DDY/ SeyFr kJ	C57B L/6By J	NZO/ HiLtJ	NOD/ LtJ	CZE CHI/ EIJ	C57B R/cd J	Gene	Product		
loss	chr7	20492763	20629283	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	EG54592			
loss	chr7	20875181	20906359	-1	-1		-1					-1	-1		-1	-1	-1	-1	9	similar to serine/threonine kinase	yes	
loss	chr7	20914988	21065528	-1	-1		-1					-1	-1		-1	-1	-1	-1				
loss	chr7	21095529	21262098	-1	-1		-1					-1	-1		-1	-1	-1	-1				
loss	chr7	21270489	21338760	-1	-1		-1					-1	-1		-1	-1	-1	-1				
loss	chr7	21368761	21427333	-1	-1		-1					-1	-1		-1	-1	-1	-1				
loss	chr7	21428524	21602774		-1		-1		-1			-1			-1	-1	-1	-1				
																			EG54592			
loss	chr7	21616224	21646203	-1	-1		-1					-1	-1		-1	-1	-1	-1	9	similar to serine/threonine kinase	yes	
loss	chr7	21654849	21837501	-1	-1		-1					-1	-1		-1	-1	-1	-1				
loss	chr7	21838686	21873965	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1	V1rd21	vomeronasal 1 receptor, D21	yes	
loss	chr7	22008154	22135352	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1	V1rd14	vomeronasal 1 receptor, D14	yes	
loss	chr7	22142286	22175401	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	22183814	22317737	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
																			EG38193			
loss	chr7	22325440	22473528	-1	-1		-1					-1	-1		-1	-1	-1	-1	6	hypothetical protein LOC381936	yes	
loss	chr7	22486921	22518609	-1	-1	-1	-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	22527765	22649202		-1		-1					-1	-1		-1	-1	-1	-1				
loss	chr7	22652083	22703928		-1		-1	-1	-1			-1	-1		-1	-1	-1	-1				
loss	chr7	22723564	22826298		-1		-1		-1			-1			-1	-1	-1	-1				
																			EG54592			
loss	chr7	22838323	22877167		-1		-1					-1	-1		-1	-1	-1	-1	9	similar to serine/threonine kinase	yes	
loss	chr7	22883914	23011572	-1	-1		-1					-1	-1		-1	-1	-1	-1	Nlrp4e	NACHT, leucine rich repeat and PYD containing		
loss	chr7	23026952	23047106		-1		-1					-1			-1		-1	-1	Nlrp4e	NACHT, leucine rich repeat and PYD containing		
loss	chr7	25694639	25714179									-1										
loss	chr7	25720695	25771541				-1					-1							Cyp2b13	cytochrome P450, family 2, subfamily b,		
loss	chr7	25777549	25797219				-1					-1							Cyp2b13	cytochrome P450, family 2, subfamily b,		
loss	chr7	25802744	25828446				-1					-1							Cyp2b13	cytochrome P450, family 2, subfamily b,		
loss	chr7	25835386	25883615				-1					-1							Cyp2b9	cytochrome P450, family 2, subfamily b,		
loss	chr7	25888927	25907373									-1							Cyp2b9	cytochrome P450, family 2, subfamily b,		
loss	chr7	26654684	26662075		-1							-1										
loss	chr7	31103524	31123432		-1							-1			-1							
loss	chr7	31151974	31158950		-1							-1	-1		-1	-1	-1					
loss	chr7	31204762	31218205		-1		-1					-1			-1		-1					
loss	chr7	31222797	31230240				-1					-1										
loss	chr7	31251106	31273158		-1	-1			-1			-1	-1		-1	-1	-1	-1				
loss	chr7	31280855	31299116		-1	-1						-1	-1		-1	-1	-1					
loss	chr7	31311360	31345204		-1							-1			-1		-1					
loss	chr7	31350480	31369433		-1							-1					-1					
loss	chr7	31375920	31393170									-1						-1				
loss	chr7	31398458	31421034		-1							-1			-1	-1	-1	-1				

		C57BL																Full	Hybrid			
		C57			CAS BPH BALB				C57BL				PREP 129S JclSid C57B		CZE		C57B					
Type	Chr	Start	End	BL/10J	DBA/2J	A/J	T/EIJ	BPH/2J	BALB/cByJ	BALB/KS/J	9	1/Svl mJ	SeyFr kJ	L/6By J	NZO/HiLtJ	NOD/LtJ	CHI/EIJ	R/cd J	Gene	Product	gene	CNV
loss	chr7	31422194	31431097		-1							-1			-1		-1		-1			
loss	chr7	31437602	31447396		-1							-1	-1		-1	-1	-1		-1			
loss	chr7	31449808	31460401		-1	-1			-1			-1	-1		-1		-1		-1			
loss	chr7	31475258	31482696		-1		-1					-1			-1	-1	-1		-1			
loss	chr7	31484372	31505955		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31510773	31517034			-1											-1		-1			
loss	chr7	31524948	31533833		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31535283	31561177		-1				-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31572000	31587576		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31588771	31594797		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31599558	31616857		-1							-1	-1		-1	-1	-1		-1			
loss	chr7	31618037	31634841		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31635596	31662199		-1		-1					-1	-1		-1	-1	-1		-1			
loss	chr7	31667490	31687893		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31703508	31712839		-1				-1			-1			-1		-1		-1			
loss	chr7	31713804	31720802		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31726313	31737554		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31739022	31751518				-1					-1			-1		-1		-1			
loss	chr7	31752218	31760596		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31766845	31775021		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31781959	31795875		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31797571	31819430		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31820851	31830447		-1	-1	-1		-1			-1			-1	-1	-1		-1			
loss	chr7	31845571	31853003		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31854443	31875596		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31880641	31887315						-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31910608	31930558		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31952155	31959572		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	31966544	31973258		-1							-1			-1		-1		-1			
loss	chr7	31997757	32022448		-1							-1			-1		-1		-1			
loss	chr7	32025825	32042629		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32056760	32078359		-1				-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32096840	32103596		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32106242	32138120		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32143408	32160435		-1				-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32166482	32177266		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32180157	32188761		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32200552	32226473		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32231011	32245398		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32253362	32261986		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32266282	32287164		-1		-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32298956	32320555		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32325317	32340683		-1							-1			-1	-1	-1		-1			
loss	chr7	32342390	32382722		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32423021	32441974		-1		-1		-1						-1		-1		-1			
loss	chr7	32444865	32471234		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32478446	32493087		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32500034	32507484		-1	-1			-1			-1	-1		-1	-1	-1		-1			
loss	chr7	32513957	32556483		-1	-1	-1		-1			-1	-1		-1	-1	-1		-1			

Type	Chr	Start	End	C57BL										Gene	Product	Full gene	Hybrid CNV			
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	C57BL #3757 9	129S 1/Svl mJ	JclSid DDY/ SeyFr kJ					C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ	C57B R/cd J
loss	chr7	32561007	32586484	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32587414	32597238	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32626804	32646936	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32666594	32698994	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32704540	32718198	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32726164	32733602	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32741005	32776794	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32810117	32841575	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32844915	32850935	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32873513	32894139	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32907081	32915011	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32958961	32975478	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	32980515	32998551	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	33022282	33031154	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	33036454	33052999	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	33059042	33081795	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<i>Abpd</i>	androgen binding protein delta	yes
loss	chr7	33082760	33091667	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	33099078	33122376	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	33145658	33156452	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	33164157	33173494	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	33199892	33217423	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	33231314	33240210	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	33737921	33743916	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38020565	38026578	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38036676	38047478	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38065192	38085597	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			yes	
loss	chr7	38093991	38102165	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38104824	38111031	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38114919	38123061	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38137956	38144423	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38146803	38154754	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38156189	38162171	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38163393	38191718	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38194343	38208015	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38214032	38223379	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38227699	38235116	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			<i>EG43417</i> 1 hypothetical protein LOC434171	
loss	chr7	38236836	38242839	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			<i>EG43417</i> 1 hypothetical protein LOC434171	
loss	chr7	38251476	38257228	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38263720	38290263	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			yes	
loss	chr7	38970264	38980589	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	38984688	39000073	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	39000990	39033914	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			<i>EG54595</i> 2 hypothetical protein LOC545952	
loss	chr7	39035821	39048776	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			<i>EG54595</i> 2 hypothetical protein LOC545952	
loss	chr7	39051187	39058145	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
loss	chr7	39060026	39076616	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				

Type	Chr	Start	End	C57		A/J	CAS	BPH	BALB	C57BL	C57BL		1/Svl	JclSid	C57B	CZE	C57B	Full	Hybrid	
				BL/10J	DBA/2J						PREP/9	129S/mJ								DDY/SeyFr/kJ
loss	chr7	39079733	39096525			-1			-1											
loss	chr7	39117418	39132506			-1			-1											
loss	chr7	39134432	39143354			-1			-1											
loss	chr7	39144302	39169492			-1			-1											
loss	chr7	39181752	39188187			-1			-1								<i>EG33051</i>			
loss	chr7	39189624	39199507														3	hypothetical protein LOC330513	yes	
loss	chr7	47321219	47331077																	
loss	chr7	47336564	47351230																	
loss	chr7	47433189	47451466																	
loss	chr7	47467542	47476412															<i>Mrgpra3</i>	G protein-coupled receptor MRGA3	
loss	chr7	47479498	47493467																	
loss	chr7	47502313	47521504																	
loss	chr7	47678460	47685645																	
loss	chr7	47704851	47730302				-1													
loss	chr7	48129584	48145943																	
loss	chr7	48188185	48195375																	
loss	chr7	48213821	48227765																	
loss	chr7	59216163	59225012			-1	-1													
loss	chr7	59232952	59260045			-1	-1													
loss	chr7	59273478	59285973			-1	-1													
loss	chr7	59294163	59313804				-1													
loss	chr7	59452525	59483965			-1	-1													
loss	chr7	59539693	59564143			-1	-1		-1											
loss	chr7	59737470	59784490			-1	-1		-1											
loss	chr7	60110126	60119711			-1														
loss	chr7	60140841	60160970			-1														
loss	chr7	60163858	60175850			-1														
loss	chr7	60209455	60215488			-1														
loss	chr7	60385629	60393282			-1														
loss	chr7	60428604	60434832																	
loss	chr7	60440602	60447298			-1														
loss	chr7	60479604	60486569			-1														
loss	chr7	60489174	60498531			-1														
loss	chr7	60518016	60529731			-1														
loss	chr7	60587371	60594795						-1											
loss	chr7	60598376	60614724			-1		-1	1			-1	1						yes	
loss	chr7	60629824	60637300			-1														
loss	chr7	86437466	86459780				-1													
loss	chr7	104111265	104136202			-1		-1										<i>Trim34</i>	tripartite motif protein 34	
loss	chr7	104138863	104157095			-1		-1												
loss	chr7	104158546	104166195			-1	-1	-1	-1	-1										
loss	chr7	104169540	104192624			-1	-1	-1	-1	-1								<i>Trim12</i>	tripartite motif protein 12	yes
loss	chr7	104194534	104204599			-1	-1	-1	-1	-1										
loss	chr7	104209380	104216369																<i>Trim34, 9230105E</i>	tripartite motif protein 34, tripartite motif protein TRIM5
loss	chr7	104219984	104226661			-1		-1											<i>10Rik 9230105E</i>	tripartite motif protein TRIM5

Type	Chr	Start	End	C57		CAS	BPH	BALB	C57BL	C57BL			CZE	C57B	Gene	Product	Full gene	Hybrid CNV		
				BL/10J	DBA/2J					PREP/9	/6J	DDY/129S							JclSid	C57B
				A/J	T/EIJ	/2J	/cByJ	KS/J	#3757	1/Svl	SeyFr	L/6By	NZO/	NOD/	CHI/	R/cd				
loss	chr7	104227861	104234579	-1	-1	-1	-1	-1		-1			-1						<i>A530023</i>	
loss	chr7	104643722	104650439												-1	-1			<i>O14Rik</i>	
loss	chr7	105721701	105727473	-1	-1	-1	-1	-1				-1	-1	-1	-1					
loss	chr7	105765352	105782523		-1	-1	-1	-1		-1	-1	-1	-1	-1	-1					
loss	chr7	105812524	105826929		-1	-1	-1	-1		-1	-1	-1	-1	-1	-1					
loss	chr7	105827694	105849766			-1	-1	-1			-1	-1	-1	-1	-1					
loss	chr7	105861531	105867756		-1	-1	-1				-1									
loss	chr7	105869681	105886006	-1	-1	-1	-1	-1		-1	-1	-1	-1	-1	-1					
loss	chr7	105903484	105909289	-1	-1	-1	-1	-1		-1	-1	-1	-1	-1						
loss	chr7	105927730	105933969		-1	-1	-1	-1		-1	-1	-1	-1							
loss	chr7	105953670	105959430	-1	-1	-1	-1	-1		-1	-1	-1	-1	-1	-1					
loss	chr7	106016102	106030026								-1									
loss	chr7	106040847	106050465			-1	-1	-1		-1	-1	-1	-1							
loss	chr7	106064164	106091560		-1	-1	-1	-1		-1	-1	-1	-1	-1	-1					
loss	chr7	106116275	106121764			-1				-1	-1	-1	-1	-1	-1					
loss	chr7	106122734	106135475			-1									-1					
loss	chr7	134173752	134181922			-1														
loss	chr8	19552813	19596688			-1														
loss	chr8	19599608	19605574			-1														
loss	chr8	19969875	19983789			-1													-1	
loss	chr8	22514792	22526539	-1	-1	-1	-1	-1		-1	-1			-1	-1			<i>Defcr21</i>	defensin-related cryptdin 21	yes
loss	chr8	22534248	22543349	-1	-1		-1	-1		-1	-1			-1	-1					
loss	chr8	22548901	22569980	-1	-1	-1	-1	-1		-1	-1			-1	-1			<i>Defcr23</i>	defensin-related cryptdin 23	yes
loss	chr8	22571910	22585861	-1	-1	-1	-1	-1		-1	-1			-1	-1					
loss	chr8	22589459	22596163		-1		-1				-1									
loss	chr8	22611014	22679891	-1	-1	-1	-1	-1		-1	-1			-1	-1			<i>Defcr22</i>	defensin-related cryptdin 22	yes
loss	chr8	22685444	22701736	-1	-1	-1	-1	-1		-1	-1			-1	-1			<i>Defcr23</i>	defensin-related cryptdin 23	yes
loss	chr8	22711136	22731992	-1	-1	-1	-1	-1		-1	-1			-1	-1					
loss	chr8	22760814	22774959			-1														
loss	chr8	22781171	22797973	-1	-1	-1	-1	-1		-1	-1			-1	-1			<i>Defcr3, Defcr5</i>	defensin related cryptdin 3, defensin related cryptdin 5	yes
loss	chr8	22803992	22820560	-1	-1	-1	-1	-1		-1	-1			-1	-1					
loss	chr8	22823181	22842635		-1	-1	-1	-1		-1	-1			-1	-1					
loss	chr8	22904860	22922382	-1	-1	-1	-1	-1		-1	-1			-1	-1					
loss	chr8	22923091	22938931	-1	-1	-1	-1	-1		-1	-1			-1	-1					
loss	chr8	22942043	22979458	-1	-1	-1	-1	-1		-1	-1			-1	-1			<i>Defcr20</i>	defensin-related cryptdin 20	yes
loss	chr8	22980454	23036590	-1	-1	-1	-1	-1		-1	-1			-1	-1					
loss	chr8	23040905	23065664	-1	-1	-1	-1	-1		-1	-1			-1	-1					
loss	chr8	23101168	23116978			-1														
loss	chr8	23120577	23151792	-1	-1	-1	-1	-1		-1	-1			-1	-1			<i>Defcr3, Defcr4</i>	defensin related cryptdin 3, defensin related cryptdin 4	yes
loss	chr8	23154462	23167137	-1	-1	-1	-1	-1		-1	-1			-1	-1					
loss	chr8	23168357	23174855			-1		-1			-1			-1				<i>AY76118</i>		
loss	chr8	23192141	23210097	-1	-1	-1	-1	-1		-1	-1			-1	-1			<i>4</i>	hypothetical protein LOC382000	
loss	chr8	31095914	31109861	-1	-1	-1	-1	-1		-1	-1			-1	-1			<i>Defcr24</i>	defensin-related cryptdin 24	yes
loss	chr8	31113710	31120630	-1	-1	-1	-1	-1		-1	-1			-1	-1					





Type	Chr	Start	End	C57BL										Gene	Product	Full gene	Hybrid CNV				
				C57 BL/10J	DBA /2J	A/J	CAS T/EIJ	BPH /2J	BALB /cByJ	C57BL KS/J	#3757 9	129S 1/Svl mJ	DDY/ JclSid SeyFr kJ					C57B L/6By NZO/ HiLtJ	CZE NOD/ LtJ	C57B R/cd	
loss	chrX	143591599	143627093			-1												<i>Ott</i>	ovary testis transcribed		
																		<i>LOC100034729</i>	hypothetical protein LOC100034729,		
loss	chrX	143636007	143778298			-1												<i>Ott</i>	ovary testis transcribed	yes	
loss	chrX	143783333	143797251			-1															
loss	chrX	143803516	143921609			-1															
loss	chrX	143942255	143985193			-1															
loss	chrX	143994547	144110938			-1															
loss	chrX	144113834	144178410			-1															
loss	chrX	144187767	144206463			-1															
loss	chrX	144215351	144301739			-1															
loss	chrX	144308223	144411211			-1												<i>Ott</i>	ovary testis transcribed	yes	
loss	chrX	144419139	144561896			-1												<i>Ott</i>	ovary testis transcribed		
loss	chrX	144570079	144579460			-1															
loss	chrX	144588094	144709016			-1															
loss	chrX	144782015	144900788			-1															
loss	chrX	144993898	145112471			-1															
loss	chrX	145114869	145335897			-1															
loss	chrX	145342418	145375776			-1															
loss	chrX	145383930	145414174			-1															
loss	chrX	145418484	145448940			-1															
loss	chrX	150275101	150280652																		
loss	chrX	165410802	165420200	1			-1			1											yes
loss	chrX	165431954	165443618				-1			1											yes
loss	chrX	165533557	165542955				-1			1											yes
loss	chrY	57734	80764								-1								<i>Zfy1</i>	zinc finger protein 1, Y linked	
loss	chrY	148745	182541								-1								<i>Ube1y1</i>	ubiquitin-activating enzyme E1, Chr Y 1	yes
loss	chrY	183776	193240								-1										
loss	chrY	1221059	1230676								-1										
loss	chrY	1234295	1241463																		
loss	chrY	1244624	1252527								-1										
loss	chrY	1254703	1268352								-1										
loss	chrY	1377450	1388498								-1										
loss	chrY	1390437	1406493								-1								<i>Zfy2</i>	zinc finger protein 2, Y linked	
loss	chrY	1569013	1593984								-1										
loss	chrY	1600180	1604066								-1										
loss	chrY	1872528	1882881								-1										
loss	chrY	1885730	1913809								-1										

\* A gain is represented by 1 and a loss is represented by -1.