

Clone	STS	Chr	Endsequence data				BAC end-pair Mouse Genome Browser May 2004		STS Mouse Genome Browser May 2004		FISH
			CHR	KB_start	KB_end	Size	CHR	MB	CHR	MB	
RP23-27O4	862620; AW212393	1							1	71.9	
RP23-330J24	D1Mit216	1	1	80229	80407	179	1	80.2	1	80.2	
RP23-36P10	968670; AW552088	1	1	165843	166021	177	1	165.8	1	165.8	
RP23-85A8	244175; AF016697	1	1	173438	173675	236	1	173.4	1	173.3	
RP23-266K3	874404; AW411872	2	2	118251	118453	202	2	118.3	2	118.3	
RP23-120P1	925210; AW321064	2	2	166052	166274	222			2	166.0	
RP23-321D1	662204; AI841227	2	2	170358	170566	208			2	170.3	
RP23-63L14	D2Mit283	2					2	150.2	2	150.3	
RP23-401L17	685309; AB000494	2							2	180.8	
RP23-182C13	MT3896; D3Mit239	3	3	35600	35781	181	3	35.6	2	35.6	
RP23-181E10	347964; AI036317	3	3	92285	92488	202	3	92.3	3	92.2	
			3	92285	92453	168					
RP23-4P7	121756; M32032	3	3	94670	94855	186	3	94.7	3	94.6	
			3	94673	94855	182					
RP23-10E3	757910	3	3	94547	94766	219	3	94.5	3	94.6	
			3	94547	94662	115					
			3	94547	94667	120					
RP23-367M16	3259; L41519	3	3	98369	98538	169	3	98.4	3	98.5	
			3	98369	98434	65					
RP23-50C5	X01974; X01971	4	4	87033	87276	243			4	87.0	
			4	87036	87276	240					
RP23-147G4	D17952	4					4	99.8	4	99.8	
RP23-74C23	D50834	4	4	113780	113941	162	4	113.8	4	114.0	
			4	113780	113900	120					
			4	113780	113858	79					
			4	113674	113941	268					
			4	113674	113900	227					
			4	113674	113858	185					
RP23-121K4	B463; D4Mit54	4	4	136327	136524	196			4	136.2	
RP23-203F6	AI854032	5	5	7985	8218	233	5	8.0	5	8.1	
RP23-44L13	451; L14543	5	5	33005	33257	252			5	32.9	
RP23-227J18	418227; AB013874	5	5	70839	71033	193	17	54.2	5	70.8	
RP23-113L15	392859	5							5	143.0	
RP23-161I1	697781; AW108023	5	5	145650	145842	193			5	145.7	
RP23-389F6	D5Mit122	5	5	147530	147710	180	5	147.5	5	147.5	
RP23-269O1	4455	5					5	80.6	7	14.4	
RP23-137A10	AU023439; 363496	5					5	107.8	5	107.9	
RP23-181G4	AI323730; D6Mit269	6	6	34243	34463	219	6	34.2	6	34.4	
RP23-137H15	U04204; C79056	6	6	34119	34319	200	6	34.1	6	34.3	
			6	34119	34293	174					
RP23-112K24	U04204	6	6	34215	34412	197	6	34.2	6	34.3	
RP23-447H15	D6Mit154	6	6	130973	131154	181	6	38.3	6	38.3	
			6	130695	130973	278					
RP23-252I12	D6Mit69	6	6	83833	84034	201			6	83.8	
RP23-244E8	AB008791	6					6	140.0	6	139.8	
									6	139.7	
RP23-110A5	AA959861; 333569	6	6	89220	89462	242	6	89.2	6	89.2	

RP23-23C21	D6Mit122	7	7	28643	28645	3	6	59.0	6	59.1	
			7	28643	28716	73					
			7	28496	28643	147					
RP23-199A7	AU017176	7	7	11550	11771	222			Chr_random		
			7	12307	12471	164					
			7	11550	11569	20					
RP23-197E13	AU016211	7	7	103275	103477	202			2	80.6	
									7	103.4	
RP23-340B11	AI841905	7					19	31.4	19	31.4	
RP23-98I2	MT2197;D8Mit170	8									
RP23-12N9	AI314911	8	8	29945	30167	223	8	30.0	8	30.1	
			8	29945	30175	230					
RP23-459D17	AI527316	11	11	6483	6659	177	11	6.5	11	6.5	
RP23-444L4	D12Mit82	12	12	14304	14468	164	12	14.3	12	14.4	
RP23-70F21	D12Mit134	12	12	109550	109730	180	12	109.5	12	109.4	
			12	109550	109558	9			12	109.6	
			12	109721	109730	9					
			12	109558	109721	162					
			12	109650	109730	79					
			12	109558	109650	92					
RP23-39G9	MT3698;D3Mit244	12	12	35444	35612	168	12	35.4	3	80.0	
RP23-104D1	430357; AI447560	13							Chr_random		
									Chr_random		
									Chr_random		
RP23-451N13	AI788917	13							13	12.7	
RP23-47D12	621295; AI788917	13							Chr_random		
									Chr_random		
RP23-335P5	U96700	13	13	32318	32528	210	13	32.3	13	32.8	
			13	32488	32528	39					
			13	32513	32528	15					
RP23-41L21	956787; AW540195	13					13	32.8	13	32.8	
RP23-423C8	859145; AW208918	13	13	57594	57792	198			5	86.7	
RP23-271O20	AA960404;334112	14	14	22248	22303	55	14	22.2	14	22.2	
RP23-41D11	MPC1454;D14Mit85	14	14	61345	61368	23			14	61.1	
RP23-173N1	U22516	14	14	43575	43855	281			14	43.7	
RP23-220L16	MTH2707;D14Mit249	14					17	21.1			
RP23-329I13	935039; AW413347	14							19	26.6	
RP23-110M3	622131; AI789753	15	15	31208	31415	206	15	31.2	15	31.2	
RP23-77H2	431159	15	15	38466	38699	233	15	38.5	15	38.4	
RP23-103I10	X60671;721417	17							17	7.5	
RP23-178C19	M55637;121677	17	17	32481	32712	231	17	32.5	17	32.7	
RP23-121G19	M95514	17	17	32436	32666	231	17	32.4	17	33.7	
RP23-12G18	D17884;M80456	17							17	33.1	
	AA960287;333995	17							17	33.4	
RP23-143P23	D17916;392509	17	17	33303	33420	117			17	33.4	
RP23-144F16	U26259	18					18	5.8	18	5.8	
RP23-465K16	AU021878	19	19	39068	39234	166			11	20.5	
			19	38993	39234	241					

**Fig B** Mapping of 63 BACs identified as single site on C57BL/6J chromosomes by FISH.

When available, for each BAC we show STS content, chromosome location according to FISH, end-sequence data, BAC end-pair and STS mapping data according to the UCSC Genome Browser (May 2004). The column furthest to the right contains a representative FISH image of the hybridized chromosome for a number of the BAC clones. We labeled the polymorphic BACs with Cy3 and in most instances we included an FITC labeled reference BAC with known chromosome location. Tan colored clones map to overlapping positions according to either end-sequence data or BAC end-pair mapping and therefore we considered them to be one variant.