

VI. A CONSENSUS GENETIC MAP
Inter-mated B73 x Mo17 (IBM) Neighbors
5718 Loci July 2003

The IBM neighbors maps are a consensus map representation that is based on the high resolution IBM maps of the Maize Mapping Project (see Web site: www.maizemap.org). Both the IBM and the neighbors maps are used as scaffolding in assembly of the physical map (see also Web site: genome.Arizona.edu/fpc/maize). Note that the inter-mated B73xMo17 or IBM map, based on 4 rounds of random mating, is expanded 3-fold compared to F2 or IF2 (immortal F2) maps and has 15X greater resolving power compared to other public mapping populations (Sharopova et al., Plant Mol Biol 48:463-481, 2002; Lee et al., Plant Mol Biol 48: 453-461, 2002). Maps with loci in common with the IBM can be readily incorporated into IBM neighbors. The algorithm resolves any conflicts in order in favor of map orders with best statistical support. In the current representation, the below maps were included:

- IBM2 Dec 2002; IBM population, 302 individuals
- IBM1 Mar 2002; IBM population, 302 individuals; has a few loci not included on IBM2
- INDEL, April 2003; 302 individuals, subset of markers on IBM2 plus INDEL (insertion deletion polymorphism) and SNP (simple nucleotide polymorphism) markers
- ChromDB; Dec 2002; scored on mini-IBM with 94 individuals, but map computed using IBM 2002 map and all 302 scores. Map provided by Chromatin Mapping Project, see ChromDB Website, www.chromdb.org
- SSR popI, T218xGT119 population of Mike McMullen, 93 individuals
- SSR popII, Tx303xCO159, same population as UMC 98
- UMC 98, Tx303xCO159, immortal F2 population, 54 individuals; see Gardiner et al., Genetics 134:917-930, 1993; Davis et al., Genetics 152:1137-1172, 1999
- BNL 96, combined scores of 2 recombinant inbred mapping populations, T232xCM37 and Tx303xCO159, with 48, and 41 individuals, respectively; map provided by Ben Burr; see Website: acemaz.bnl.gov; see Burr et al., Genetics 118:519-526, 1988
- BNL 2002, population and map source same as BNL 96

Fields in the table:

Locus: Locus symbol.

Contig: C if the locus has a probe associated with a contig; AC if the contig has been anchored unambiguously to this genetic locus.

Coordinate: cM values; estimated for all maps save IBM2. Revisions can be expected as physical mapping progresses.

Backbone: Yes if on frame IBM2, as defined by MapMaker software, otherwise, 'no'.

Bin: Bin location. Bins are stated numerically, as the linkage group or chromosome, followed by a decimal and then a value that defines the bin. Lower values are the distal region of the short arm. Revisions can be expected as physical mapping progresses.

Source Map: The map used to derive map order on IBM neighbors.

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Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnl(tas1h)		1.00	-55.80	no	BNL 96
csu804b(dnp)		1.00	-30.50	no	UMC 98
umc1041	C	1.00	-29.00	no	SSR popll
bnl(tas1c)		1.00	-11.70	no	BNL 96
rgpc654		1.00	-11.30	no	UMC 98
umc1619	C	1.00-1.01	-8.00	no	SSR popll
phi056(tub1)	C	1.00-1.01	-2.30	no	IBM2
umc1354	AC	1.00	0.00	yes	IBM2
tub1	AC	1.01	2.50	yes	IBM2
csu738		1.00-1.01	2.50	no	UMC 98
umc1613	C	1.00-1.01	2.50	no	SSR popll
dmt103b	C	1.01	8.30	no	ChromDB
bnlg149		1.00	9.86	no	BNL 2002
umc1177	AC	1.01	10.50	yes	IBM2
umc1566	AC	1.01	16.50	yes	IBM2
bnl5.62a		1.01	22.80	yes	IBM2
fus6		1.01	24.30	no	IBM2
mmp102		1.01	26.10	yes	IBM2
AY110314	C	1.01	31.10	yes	IBM2
umc1292	C	1.01	32.08	no	SSR popll
umc94a		1.01	40.30	yes	IBM2
csu589		1.01	40.40	no	UMC 98
bnl8.05a		1.01	40.40	no	UMC 98
bnlg1124		1.01	41.67	no	BNL 2002
knox1		1.01	42.39	no	UMC 98
umc164c		1.01	43.39	no	UMC 98
lim179		1.01	48.70	yes	IBM2
csu680a	C	1.01	52.59	no	UMC 98
mmp49		1.01	57.80	yes	IBM2
odo1081a		1.01	59.50	yes	IBM2
bnlg1179		1.01	64.14	no	BNL 2002
asg31	C	1.01	66.90	yes	IBM2
npi415		1.01	67.70	yes	IBM2
AY110401	C	1.01	68.30	no	IBM2
odo507a(ant)		1.01	68.52	no	UMC 98
umc1106		1.00	68.71	no	SSR popll
umc1305	C	1.00	69.70	no	SSR popll
umc1281	C	1.05-1.06	69.70	no	SSR popll
std20b(uce)		1.01	70.62	no	UMC 98
uaz104		1.01	70.96	no	BNL 96
asg59a		1.01	71.10	no	UMC 98
php20537b		1.01	71.10	yes	IBM2
ufg31		1.01	73.30	yes	IBM2
ufg33		1.01	73.70	yes	IBM2
ufg32	C	1.01	74.50	yes	IBM2
ufg34		1.01	76.10	yes	IBM2
PCO072650	C	1.01	79.25	no	INDEL
umn857b		1.01	80.20	no	UMC 98
uaz260b(rpL5)		1.01	80.20	no	UMC 98
rgpc385a(rpL5)		1.01	80.20	no	UMC 98
bnlg1014	C	1.01	82.80	yes	IBM2
umc1363	C	1.01	83.70	yes	IBM2
umc1071	C	1.01	85.20	yes	IBM2
umc1269	C	1.01	86.30	yes	IBM2
umc2012	C	1.01	87.40	no	IBM2
tda47		1.01	88.18	no	UMC 98
csu454(gst)		1.01	88.18	no	UMC 98
umc1977	C	1.01	89.20	yes	IBM2
PCO132874	C	1.01-1.02	90.85	no	INDEL
umc1948	AC	1.01	91.50	no	IBM2
php20603		1.01	91.70	yes	IBM2
npi97a		1.01	92.74	no	UMC 98
umc266b(ptk)		1.01	92.74	no	UMC 98
dpg12b		1.02	93.06	no	BNL 2002
umc2215		1.01	93.88	no	SSR popll
smt2		1.01	94.18	no	SSR popll
odo20a		1.01-1.02	95.28	no	BNL 2002
prc3	AC	1.01	97.97	no	SSR popll
rz444c	C	1.01	98.29	no	IBM1
umc1484		1.01	98.39	no	SSR popll
php20689		1.01	101.10	yes	IBM2
umc1685	AC	1.01	103.00	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
mmp93		1.01	103.20	yes	IBM2
uaz182		1.01	103.37	no	BNL 2002
bnlg1112		1.01	104.48	no	BNL 2002
npi406		1.02	105.64	no	BNL 2002
pbs11		1.01	107.44	no	BNL 2002
cat2		1.01	107.97	no	BNL 2002
umc1160	AC	1.01	108.30	yes	IBM2
umc2224	AC	1.01-1.02	110.90	yes	IBM2
npi579b		1.01	112.20	yes	IBM2
csic(rab30)		1.02	112.20	no	BNL 2002
bnlg1130		1.01-1.02	114.33	no	BNL 2002
umc157(chn)	AC	1.02	114.40	yes	IBM2
umc1222	C	1.01-1.02	114.40	no	SSR popll
pmcb1		1.02	115.20	yes	IBM2
uaz2a		1.02	123.57	no	BNL 2002
mmp68		1.02	123.60	yes	IBM2
umc2225	AC	1.01-1.02	124.70	yes	IBM2
uaz146b(rps28)		1.01-1.02	125.60	no	BNL 2002
csu1171		1.02	127.30	yes	IBM2
umc115		1.02	127.30	no	UMC 98
umc194a(gpr)		1.02	127.30	no	UMC 98
csu1190		1.02	127.39	no	UMC 98
tda50		1.02	129.30	no	UMC 98
csu680c	C	1.02	129.30	no	UMC 98
std2c(dba)		1.02	129.30	no	UMC 98
rgpc1122c(rpL15)		1.02	129.30	no	UMC 98
mmp171b		1.02	131.80	no	IBM2
umc1166	AC	1.02	133.60	yes	IBM2
PCO128140	C	1.02	139.41	no	INDEL
umc1568	AC	1.02	141.80	yes	IBM2
bnlg1429	AC	1.02	143.50	yes	IBM2
umc1467	AC	1.02	143.50	no	SSR popll
pds1	C	1.02	144.28	no	BNL 96
dnap9705(Ac)		1.02	144.28	no	BNL 2002
ensl001		1.02	144.39	no	BNL 2002
ifbf33		1.02	145.74	no	BNL 2002
php20640		1.02	146.90	yes	IBM2
npi411b		1.02	149.13	no	BNL 2002
lim504		1.02	151.60	yes	IBM2
npi423		1.02	152.62	no	BNL 2002
csu691		1.02	156.85	no	UMC 98
bnlg1614		1.02	159.11	no	BNL 2002
npi209b		1.02	160.06	no	BNL 2002
bnlg1627		1.02	160.06	no	BNL 2002
npi109a		1.02	160.06	no	BNL 96
umc1976	AC	1.02	160.60	yes	IBM2
bnlg176		1.03	161.19	no	BNL 2002
csu860b		1.02	161.82	no	UMC 98
umc2226	AC	1.02	165.80	no	IBM2
mmp135		1.02	166.00	yes	IBM2
bnlg1127		1.02	167.50	yes	IBM2
bnlg1953	AC	1.02	170.00	yes	IBM2
bnlg1178		1.02	171.40	no	BNL 2002
bnlg1007		1.02	173.10	no	BNL 2002
umc2204	C	1.02	175.52	no	SSR popll
umc1711		1.02	176.69	no	SSR popll
npi403b		1.02	183.80	yes	IBM2
csu320a		1.02	183.95	no	UMC 98
bnlg19.13		1.02	188.22	no	BNL 2002
bnlg109		1.02	188.58	no	BNL 2002
umc2383	C	1.02-1.03	188.67	no	SSR popll
uaz1		1.02	193.14	no	BNL 2002
bnl5.21c		1.03	194.13	no	BNL 2002
bnlg1803		1.02	198.32	no	BNL 2002
umc76	C	1.03	198.40	yes	IBM2
gln6	AC	1.02-1.03	198.40	no	UMC 98
umc243b		1.02-1.03	198.40	no	UMC 98
uaz120		1.03	199.17	no	BNL 2002
isu2117c		1.03	199.17	no	BNL 2002
ufg78		1.02-1.03	199.70	no	IBM2
uaz267		1.03	200.03	no	BNL 2002
uox(bru1)		1.02-1.03	200.56	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
npi241b		1.03	200.61	no	BNL 2002
bnl35d(blr)		1.03	200.75	no	BNL 2002
mpik33h		1.02-1.03	200.75	no	BNL 2002
bnlg1083		1.02	201.32	no	BNL 2002
cdo1387b(emp70)		1.03	201.50	yes	IBM2
bnlg147		1.02	201.97	no	BNL 2002
lim122		1.03	205.00	yes	IBM2
umc1073		1.03	208.50	yes	IBM2
umc1403	C	1.03	210.60	yes	IBM2
npi439a		1.03	216.80	yes	IBM2
umc230		1.03	218.40	yes	IBM2
umc11a		1.03	218.80	yes	IBM2
npi425c		1.03	218.80	no	UMC 98
npi234a		1.03	219.00	no	IBM2
bnlg1484	AC	1.03	219.00	no	IBM2
bnl10.38a		1.03	223.18	no	BNL 2002
mmp66		1.03	224.40	yes	IBM2
umc2397		1.03	224.76	no	SSR popl
AY109929	AC	1.03	225.40	no	IBM2
csu315c		1.03	225.80	no	UMC 98
umc1397	AC	1.03	226.40	yes	IBM2
AY110052	C	1.03	229.60	yes	IBM2
csu859(gol)		1.03	242.15	no	UMC 98
AY110028	C	1.03	246.30	yes	IBM2
PCO074335	C	1.03	252.19	no	INDEL
npi448		1.03	254.28	no	BNL 96
ifbf91		1.03	254.35	no	BNL 2002
ias8		1.03	254.77	no	BNL 2002
bnlg2204		1.03	254.86	no	BNL 2002
dgg9b		1.03	255.13	no	BNL 2002
npi242b		1.03	255.20	yes	IBM2
bnl1.326a		1.06	255.31	no	BNL 2002
ts2		1.03	255.50	no	BNL 2002
ncr(sod4a)		1.03	255.55	no	BNL 2002
mpik36		1.03	255.57	no	BNL 2002
csu181a		1.03	256.62	no	UMC 98
csu254b		1.03	256.62	no	UMC 98
csu214b(grp)		1.03	256.62	no	UMC 98
csu179a(hsp70)		1.03	256.62	no	UMC 98
umc1479	AC	1.03	257.40	yes	IBM2
umc8a		1.03	257.47	no	UMC 98
csu238a(apx)		1.03	257.47	no	UMC 98
csu710a(apx)		1.03	257.55	no	UMC 98
asg26	C	1.03	257.90	no	IBM2
lim51		1.03	258.70	no	IBM2
bnlg439	AC	1.03	259.10	no	IBM2
bnlg1203	AC	1.03	259.30	yes	IBM2
fad8	AC	1.03	260.70	yes	IBM2
uaz139		1.03	261.74	no	BNL 2002
pbs16b		1.03	262.46	no	BNL 2002
wusi1032		1.03	262.46	no	BNL 2002
AY110640		1.03	264.40	yes	IBM2
npi427b		1.03	268.16	no	BNL 96
bnlg1458	C	1.03	268.90	no	IBM2
umc13		1.03	270.60	yes	IBM2
pdc3		1.03	270.60	no	BNL 2002
ibp2		1.03	271.37	no	BNL 2002
bnlg2180		1.03	272.53	no	BNL 2002
asg35b		1.03	273.90	yes	IBM2
csu215b(grp)		1.03	275.27	no	UMC 98
umc266a(ptk)		1.03	275.39	no	UMC 98
dpg4		1.03	275.94	no	BNL 2002
dpg10		1.03	275.94	no	BNL 2002
uaz264b		1.03	277.51	no	BNL 2002
dpg8		1.03	277.95	no	BNL 2002
AY110632	AC	1.03	278.10	no	IBM2
umc1701		1.03	279.13	no	SSR popl
npi589		1.03-1.04	279.41	no	BNL 2002
p1	C	1.03	279.96	no	SSR popl
csu814b		1.03	279.96	no	UMC 98
ndp2		1.03	282.60	yes	IBM2
csu745d(rpPo)	C	1.03	285.65	no	UMC 98

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
mmp23		1.03	286.20	yes	IBM2
AW400087	C	1.03	287.20	no	IBM2
npi286		1.03	288.50	no	UMC 98
ndp1		1.03	288.60	yes	IBM2
hcf3		1.03	290.10	no	BNL 2002
ynh21		1.03	290.10	no	BNL 2002
bnlg1866	C	1.03	290.10	yes	IBM2
bnlg182		1.03	290.10	no	BNL 2002
pge(phyB1)		1.03	290.10	no	BNL 2002
umc1880	C	1.03	290.30	no	IBM2
phi109275	C	1.03	290.40	no	IBM2
umc1598		1.03	290.70	yes	IBM2
dpg11		1.03	290.73	no	BNL 2002
chs5054		1.03	290.82	no	BNL 2002
csu753		1.03	291.10	no	UMC 98
csu392b		1.03	291.10	no	UMC 98
dpg9		1.03	291.25	no	BNL 2002
lim432		1.03	292.40	yes	IBM2
bnl12.06a		1.03	293.00	no	IBM2
fmi1(pk1)		1.04	293.00	no	UMC 98
csu924(wsi)		1.04	293.00	no	UMC 98
mmp151a		1.03	297.20	yes	IBM2
umc1514		1.03	301.37	no	SSR popl
AY110393	C	1.03	302.80	no	IBM2
mmp100		1.03	311.40	yes	IBM2
umc2145		1.03	319.00	no	IBM2
uaz146a(rps28)		1.03-1.04	320.56	no	BNL 2002
mmp56		1.04	320.90	yes	IBM2
cdo938a		1.04	323.10	yes	IBM2
asg69	C	1.04	323.61	no	UMC 98
csu633		1.04	323.61	no	UMC 98
csu941		1.04	323.61	no	UMC 98
umc227		1.04	323.61	no	UMC 98
csu632a		1.04	323.61	no	UMC 98
asg45(ptk)	C	1.04	323.61	no	SSR popl
umc1452		1.03-1.04	323.80	no	SSR popl
npi(sod4)		1.03	325.24	no	BNL 2002
les22		1.04	325.30	no	UMC 98
bnlg2238	AC	1.04	326.70	yes	IBM2
bnlg1016		1.04	326.70	no	BNL 2002
umc2124	AC	1.04	328.50	no	IBM2
uaz266a(nad)		1.03	328.69	no	BNL 2002
csu1082		1.04	329.37	no	UMC 98
cdo38a(ntp)	C	1.03	330.43	no	BNL 2002
umc1849		1.04	335.00	yes	IBM2
asg75		1.04	336.50	yes	IBM2
umc1169	C	1.04	337.50	yes	IBM2
chr125b		1.04	339.60	no	ChromDB
asg30b		1.04	340.70	yes	IBM2
rgpr44a		1.04	340.70	no	UMC 98
csu737(npc)		1.04	340.70	no	UMC 98
rgpc361(ppi)		1.04	340.70	no	UMC 98
PCO099415	C	1.04	344.42	no	INDEL
umc1472	C	1.04	345.85	no	SSR popl
uaz3		1.03-1.04	348.99	no	BNL 96
csu389		1.04	349.88	no	UMC 98
rz672a(cgs)		1.04	349.88	no	UMC 98
AY110330	AC	1.04	350.60	yes	IBM2
umc29a		1.05	351.00	no	BNL 2002
sod4		1.04	351.10	no	UMC 98
rgpc198a(sik)		1.04	351.10	no	UMC 98
bnl2.323		1.04	353.12	no	BNL 2002
csu207		1.04	356.00	yes	IBM2
csu452		1.04	356.00	no	UMC 98
rz251a		1.04	356.00	no	UMC 98
csu649(scp)	AC	1.04	356.00	no	UMC 98
umc2217	C	1.03-1.04	358.40	no	SSR popl
uaz248a(his3)		1.04	359.70	no	IBM2
umc2227	AC	1.04	360.90	yes	IBM2
bnlg652		1.05	365.51	no	BNL 2002
umc1144	AC	1.04	368.97	no	SSR popl
ufg13b		1.04	369.20	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
ufg77		1.04	373.20	yes	IBM2
umc1917	AC	1.04	374.80	no	IBM2
umc2390		1.04	376.98	no	SSR popl
isu041b		1.04	377.20	yes	IBM2
csu323		1.04	378.52	no	UMC 98
csu887		1.04	378.52	no	UMC 98
isu61a		1.04	379.06	no	IBM1
ufg43		1.04	383.60	yes	IBM2
npi262		1.04	383.71	no	UMC 98
bcd450e		1.04	383.71	no	UMC 98
uaz198d(rpL10)		1.04	383.71	no	UMC 98
bnlg1811	AC	1.04	386.40	yes	IBM2
bnl7.21a		1.05-1.07	388.85	no	BNL 2002
umc275		1.04	389.56	no	BNL 2002
bnl9.11b(lts)	C	1.04	390.80	yes	IBM2
umc2228	AC	1.04	391.80	no	IBM2
umc1770	AC	1.04	392.10	no	SSR popl
bnlg1886		1.05	396.77	no	BNL 2002
umc2229	AC	1.04	397.30	no	IBM2
bnlg2295	AC	1.04	398.20	yes	IBM2
dpg12a		1.04	399.20	no	BNL 2002
bnlg2086	AC	1.04	401.20	no	IBM2
umc2112	AC	1.04	401.30	no	IBM2
asg3		1.04	401.90	yes	IBM2
csu3	C	1.05	405.00	yes	IBM2
umc1243	AC	1.04-1.05	405.00	no	SSR popl
csu694b(uce)	C	1.05	408.21	no	UMC 98
CL34571_2	C	1.05	411.48	no	INDEL
mmp61		1.05	412.60	yes	IBM2
PCO099462	C	1.05	413.06	no	INDEL
lim497		1.05	413.70	yes	IBM2
rz500(stp)	AC	1.05	415.58	no	UMC 98
umc2025	C	1.05	417.00	yes	IBM2
umc1558		1.05	417.00	no	SSR popl
bnlg1832		1.05	422.81	no	BNL 2002
npi453		1.04	422.81	no	BNL 96
umc1734	AC	1.05	423.00	no	SSR popl
mmp39		1.05	425.20	yes	IBM2
umc1244	C	1.05	427.60	no	SSR popl
pop1		1.05	429.38	no	UMC 98
csu822		1.05	429.38	no	UMC 98
csu263b		1.05	429.38	no	UMC 98
csu781b	C	1.05	429.38	no	UMC 98
rgpc316	C	1.05	429.38	no	UMC 98
csu653(fbn)		1.05	429.38	no	UMC 98
csu1041a(ptk)		1.05	429.38	no	UMC 98
umc1515	AC	1.05	430.60	yes	IBM2
AY109646	AC	1.05	431.20	no	IBM2
nfd104c		1.05	432.04	no	ChromDB
umc2230	AC	1.05	432.40	yes	IBM2
AY111680	AC	1.05	433.60	yes	IBM2
umc1297	C	1.05	434.69	no	SSR popl
umc1469	AC	1.05	435.09	no	SSR popl
rz421		1.05	435.47	no	UMC 98
uaz246c(mbf)	C	1.05	436.40	yes	IBM2
csu793		1.05	437.08	no	UMC 98
AY109678	C	1.05	437.30	no	IBM2
mmp143		1.05	437.90	yes	IBM2
umc1461	AC	1.05	438.80	no	IBM2
csu1138		1.05	439.00	yes	IBM2
umc260		1.05	439.00	no	UMC 98
umc167a		1.05	439.00	no	UMC 98
csu781c	C	1.05	439.00	no	UMC 98
uaz198c(rpL10)		1.05	439.00	no	UMC 98
rz323a		1.05	439.30	no	IBM2
umc1493		1.05	439.30	no	IBM2
umc1076	AC	1.05	440.00	yes	IBM2
mmp101		1.05	441.20	yes	IBM2
umc1689		1.05	445.10	no	SSR popl
AY110396	AC	1.05	445.50	yes	IBM2
umc1676	AC	1.05	450.80	yes	IBM2
umc2231	AC	1.05	453.50	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc1703		1.05	453.90	yes	IBM2
rs2		1.05	457.00	yes	IBM2
umc1611	AC	1.05	458.40	no	SSR popl
eno2		1.05	460.60	no	BNL 2002
uaz9		1.05	460.60	no	BNL 2002
pbs9b		1.05	460.60	no	BNL 2002
uaz7a		1.05	460.60	no	BNL 2002
npi214		1.05	460.60	no	BNL 2002
cdo344c(rga)		1.05	460.60	yes	IBM2
mpik41d(mem1)		1.05	460.60	no	UMC 98
rz892a(alt)		1.05	461.50	no	UMC 98
umc1626		1.05	464.08	no	SSR popl
AI855190	AC	1.05	464.70	no	IBM2
CL14065_1	C	1.05	465.03	no	INDEL
umc1906	AC	1.05	467.00	yes	IBM2
umc1903	AC	1.05	467.90	no	IBM2
mmp124		1.05	469.40	yes	IBM2
umc2232		1.05	470.90	yes	IBM2
umc1395	AC	1.05	471.70	yes	IBM2
umc1321	AC	1.05	473.20	yes	IBM2
umc1601		1.05	473.80	yes	IBM2
umc2233	AC	1.05	474.50	yes	IBM2
csu710f(apx)		1.05	475.60	no	UMC 98
umc1603	AC	1.05	475.90	yes	IBM2
hac101b		1.05	481.90	yes	IBM2
npi304		1.05	483.75	no	BNL 2002
rz296a		1.05	483.75	no	BNL 2002
npi598		1.05	483.75	no	BNL 96
umc1323	AC	1.05	483.83	no	SSR popl
uaz13		1.05	484.68	no	BNL 2002
mmp95		1.05	484.70	no	IBM2
uaz4		1.05	484.75	no	BNL 2002
uaz5		1.05	484.75	no	BNL 2002
uaz6		1.05	484.75	no	BNL 2002
pbs6d		1.05	484.75	no	BNL 2002
npi401		1.05	484.75	no	BNL 2002
bnl1.556		1.05	484.75	no	BNL 2002
uaz276		1.05	485.90	yes	IBM2
uaz203		1.05	486.16	no	BNL 2002
npi279		1.06	486.77	no	BNL 2002
uaz17a		1.06	486.93	no	BNL 2002
uaz273		1.05-1.06	487.00	no	IBM2
uaz11		1.04	488.19	no	BNL 2002
ucsd61g		1.00-1.05	489.17	no	BNL 2002
uaz253		1.05	489.41	no	BNL 2002
npi272		1.06	491.10	no	BNL 2002
umc67a		1.06	496.60	yes	IBM2
csu881(cys)		1.06	496.60	no	UMC 98
mbd106	C	1.06	496.60	no	ChromDB
csu574b(eif2B)	C	1.06	496.60	no	UMC 98
isu146		1.06	501.20	yes	IBM2
umc1972		1.06	503.30	yes	IBM2
umc1988		1.06	504.93	no	SSR popl
umc1754	AC	1.06	506.83	no	SSR popl
umc1812	AC	1.06	508.20	no	IBM2
myb6		1.06	514.70	yes	IBM2
asg11	C	1.06	516.33	no	UMC 98
umc196		1.06	516.33	no	UMC 98
umc1590	AC	1.06	517.00	yes	IBM2
AY109499	C	1.06	517.70	no	IBM2
AY110566		1.06	518.90	no	IBM2
bnl5.59		1.06	520.40	yes	IBM2
csu92	AC	1.06	520.40	no	UMC 98
umc1508	AC	1.06	521.41	no	SSR popl
php20654		1.06	523.30	yes	IBM2
AY110296		1.06	523.90	yes	IBM2
php20682		1.06	524.50	no	IBM2
asg58		1.06	525.70	yes	IBM2
umc1811	AC	1.06	526.40	yes	IBM2
csu675a(prh)	C	1.06	527.06	no	SSR popl
bnlg2057	C	1.06	527.60	yes	IBM2
csu194(mthr)		1.06	528.05	no	UMC 98

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
csu503(met)		1.06	528.21	no	UMC 98
rgpc356		1.06	528.71	no	UMC 98
umc177a		1.06	528.71	no	UMC 98
umc2234	AC	1.06	529.00	no	IBM2
csu256(hsp90)		1.06	532.18	no	UMC 98
bnlg1598	AC	1.06	532.80	yes	IBM2
umc1123	AC	1.06	535.10	yes	IBM2
npi429		1.05-1.06	535.27	no	BNL 96
umc1398		1.06	540.91	no	SSR popl
AY104360	C	1.06	541.30	yes	IBM2
npi258		1.06	542.31	no	BNL 2002
ptk3		1.06	543.99	no	UMC 98
mmp156		1.06	544.20	yes	IBM2
uaz15		1.06	547.66	no	BNL 2002
bnl23b		1.06	547.66	no	BNL 2002
csu60b		1.06	547.66	no	BNL 2002
csu91b		1.06	547.66	no	BNL 2002
dup382		1.06	547.66	no	BNL 2002
uaz14a		1.06	547.66	no	BNL 2002
bnl34		1.06	547.66	no	BNL 96
bnlg1273		1.06	547.70	no	BNL 2002
bnlg1908b		1.06	547.96	no	BNL 2002
cdo464a		1.06	547.97	no	BNL 2002
ucsd61a		1.06	548.17	no	BNL 2002
bnlg1057	AC	1.06	548.30	no	IBM2
isu2191i		1.06	548.30	no	BNL 2002
umc1396	AC	1.06	548.40	yes	IBM2
umc2235	AC	1.06	550.00	yes	IBM2
umc1748		1.06	553.60	yes	IBM2
umc1919	AC	1.06	555.80	yes	IBM2
PCO116807	C	1.06	556.80	no	INDEL
bnlg1615	C	1.06	557.60	yes	IBM2
csu805	AC	1.06	558.50	no	IBM2
csu899b(ant)		1.06	558.50	no	UMC 98
psr152a		1.06	559.80	yes	IBM2
uwo2		1.06	560.05	no	BNL 96
AY111153	C	1.06	561.00	no	IBM2
umc2151		1.06	563.90	yes	IBM2
cdo595		1.06	565.55	no	BNL 2002
cdo475b		1.06	565.55	no	BNL 2002
umc1664		1.06	566.63	no	SSR popl
umc1668		1.06	566.63	no	SSR popl
uaz249a(ubf9)		1.06	567.08	no	BNL 2002
ntf1	C	1.06	570.80	yes	IBM2
csu590(rpL17)		1.06	570.80	no	UMC 98
csu505(rpL7)		1.06	573.18	no	UMC 98
umc58	C	1.06	575.90	yes	IBM2
umc119		1.06	575.90	no	UMC 98
rz28a		1.06	576.75	no	BNL 2002
cdo116a		1.06	576.75	no	BNL 2002
zmm6		1.06	577.19	no	BNL 2002
mpik34		1.06	577.19	no	BNL 2002
ucsd72a		1.06	577.19	no	BNL 2002
asg16b		1.06	578.20	yes	IBM2
umc82b		1.06	581.27	no	BNL 2002
mmp123		1.06	583.30	yes	IBM2
umc1035	AC	1.06	587.00	no	IBM2
umc1709	AC	1.06	588.20	no	IBM2
php20644		1.06	589.60	yes	IBM2
bnlg421		1.06	591.69	no	BNL 2002
umc1122	C	1.06	593.04	no	SSR popl
umc1924	AC	1.06	593.80	yes	IBM2
umc2396		1.06-1.07	594.96	no	SSR popl
csu1150		1.06	596.34	no	UMC 98
ufg50	C	1.06	597.50	yes	IBM2
umc1254	AC	1.06	598.60	no	SSR popl
uaz147b		1.06	600.00	yes	IBM2
uaz18d		1.07	603.21	no	BNL 2002
csu1132		1.06	603.80	yes	IBM2
umc2236	AC	1.06	604.80	yes	IBM2
hm1	C	1.06	605.95	no	UMC 98
umc1925	AC	1.06	606.50	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
dpg7b		1.06-1.07	607.27	no	BNL 2002
asg62	AC	1.07	607.30	yes	IBM2
umc1499	C	1.07	607.30	no	SSR popl
npi224g		1.07	610.23	no	BNL 2002
wsu(nia4)		1.07	610.23	no	BNL 96
isu2117h		1.07	611.22	no	BNL 2002
ncr(nrA)		1.07	611.37	no	BNL 2002
isu2117a		1.07	615.35	no	BNL 2002
umc274		1.06-1.07	615.89	no	BNL 2002
cuny21		1.06-1.07	616.02	no	BNL 2002
uaz20a		1.07	617.33	no	BNL 2002
umc2237	AC	1.06	618.50	yes	IBM2
npi566		1.07	619.06	no	BNL 2002
bnlg615		1.07	626.63	no	SSR popl
csh11		1.07	626.86	no	UMC 98
umc1374	AC	1.06-1.07	627.10	no	SSR popl
umc2239	AC	1.06	630.60	yes	IBM2
umc1486		1.07	636.08	no	SSR popl
umc2238	AC	1.06	638.30	no	IBM2
csu374b		1.07	642.30	yes	IBM2
php20855		1.07	647.40	yes	IBM2
csh12		1.07	647.73	no	UMC 98
bcd450d		1.07	649.50	no	UMC 98
bcd98a	AC	1.07	649.50	yes	IBM2
csu614a		1.07	649.50	no	UMC 98
uaz19c		1.07	649.50	no	BNL 2002
umc1278	C	1.07	652.40	no	SSR popl
umc1356		1.07	652.65	no	SSR popl
umc1661	AC	1.07	652.65	no	SSR popl
umc1358	AC	1.07	653.40	yes	IBM2
npi605a		1.07	655.63	no	BNL 96
AY111834	AC	1.07	656.70	yes	IBM2
bnlg1556	AC	1.07	658.60	yes	IBM2
bnl7.08b		1.07	659.74	no	BNL 2002
umc1833		1.07	662.18	no	SSR popl
umc33a		1.07	664.17	no	UMC 98
agrp83b		1.07	664.17	no	UMC 98
std1b(his2B1)		1.07	664.17	no	UMC 98
dmt103c	C	1.07	669.39	no	ChromDB
umc23a		1.07	670.20	yes	IBM2
umc1706	AC	1.07	671.29	no	SSR popl
uaz151(sar)		1.07	672.57	no	BNL 2002
uaz2b		1.07	674.08	no	BNL 2002
npi236		1.07	677.45	no	BNL 96
uaz228d(his2b)		1.07	677.81	no	BNL 2002
umc2064		1.07	678.49	no	SSR popl
rz698a(ppy)		1.07	679.85	no	UMC 98
csu921b(ppp)		1.07	679.85	no	UMC 98
csu542		1.07	682.27	no	UMC 98
hon105		1.07	683.56	no	ChromDB
lim442		1.07	685.20	yes	IBM2
med63b		1.07	685.88	no	UMC 98
csu660a	C	1.07	688.54	no	UMC 98
bcd98g		1.07	689.71	no	BNL 96
mmp189		1.07	690.50	yes	IBM2
uaz205b(hsp70)		1.07	692.64	no	UMC 98
mmp173		1.07	693.60	yes	IBM2
umc2387	C	1.07	697.22	no	SSR popl
php20661		1.07	699.90	yes	IBM2
php20713b		1.07	700.50	no	IBM2
bnlg1025	C	1.07	700.50	yes	IBM2
bnl17.15b(bt2)	C	1.07	700.55	no	BNL 2002
dpg7c		1.07	700.58	no	BNL 2002
bcd207a		1.07	703.50	yes	IBM2
bcd98m		1.08	704.57	no	BNL 2002
AY110356	C	1.07	706.40	yes	IBM2
umc1128	C	1.07	711.50	yes	IBM2
bsd2		1.05	712.12	no	BNL 2002
umc1147	AC	1.07	714.40	yes	IBM2
bcd386a		1.07	717.80	yes	IBM2
umc1848		1.07	717.80	no	SSR popl
bnlg1564		1.07	718.50	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
npi447a		1.07	720.30	yes	IBM2
phi002	C	1.07-1.08	720.90	yes	IBM2
umc1245	C	1.07	721.90	yes	IBM2
AY110159	C	1.07-1.08	722.30	no	IBM2
umc128	C	1.08	722.40	yes	IBM2
mwg645f		1.08	722.40	no	BNL 2002
rz583a(msb)		1.08	722.40	no	UMC 98
umc37b		1.02	723.74	no	BNL 2002
bnlg1629		1.08	723.82	no	BNL 2002
rny(pcr)a		1.08	724.87	no	BNL 2002
umc37a		1.08	726.10	yes	IBM2
npi224f		1.05-1.12	727.83	no	BNL 2002
bnl17.06		1.08	728.23	no	BNL 2002
cdo94b		1.07-1.08	730.48	no	BNL 2002
mdh4		1.08	734.42	no	UMC 98
AY110313	C	1.08	735.20	yes	IBM2
AY110191	C	1.08	740.40	no	IBM2
cdo98b	C	1.08	744.70	yes	IBM2
umc1998	C	1.08	747.90	no	IBM2
npi614		1.08	748.92	no	BNL 2002
npi573		1.08	748.92	no	BNL 96
mmp99		1.08	750.00	yes	IBM2
csu12b(cin4)		1.08	750.23	no	UMC 98
csu580a(mdh)		1.08	750.23	no	UMC 98
bnlg2228	AC	1.08	755.20	yes	IBM2
csu1007(eif4F)		1.08	756.19	no	UMC 98
umc83a	AC	1.08	756.50	yes	IBM2
dup135a		1.08	756.50	no	BNL 2002
umc1085	AC	1.08	757.22	no	SSR popl
umc2029		1.08	760.13	no	SSR popl
lim254		1.08	760.30	yes	IBM2
chr124		1.08	765.10	no	ChromDB
npi120		1.08	765.90	yes	IBM2
umc2080	C	1.08	769.40	no	IBM2
umc1955	C	1.08	770.40	yes	IBM2
uce1		1.08	770.92	no	UMC 98
bnlg1044		1.08	772.50	no	BNL 2002
umc2181	AC	1.08	774.50	yes	IBM2
npi255		1.08	775.20	yes	IBM2
npi569a		1.08	775.41	no	BNL 2002
id1		1.08	775.57	no	BNL 2002
rz561a		1.08	776.90	no	UMC 98
umc1838	C	1.08	777.40	yes	IBM2
csh4(id1)		1.08	779.20	yes	IBM2
umc1446	C	1.08	781.60	yes	IBM2
mpik37		1.08	781.90	no	BNL 96
umc1928		1.08	783.20	yes	IBM2
mmp22		1.08	784.70	no	IBM2
an1	C	1.08	785.30	yes	IBM2
mmc0041	C	1.08	787.49	no	SSR popl
sdg123	C	1.08	789.30	no	ChromDB
csu982(goa)		1.08	790.84	no	UMC 98
bz2	C	1.08	792.42	no	UMC 98
AY110349	C	1.08	793.40	yes	IBM2
csu531		1.08	798.74	no	UMC 98
vp14	AC	1.08	798.74	no	UMC 98
csu780b		1.08	798.74	no	UMC 98
rgps10558a		1.08	798.74	no	UMC 98
csu66a(hcb)		1.08	798.74	no	UMC 98
csu889b(hcb)		1.08	798.74	no	UMC 98
umc1991	C	1.08	800.70	yes	IBM2
bnlg1643		1.08	802.89	no	BNL 2002
dup103		1.08	803.08	no	BNL 2002
umc2385	C	1.08-1.09	803.99	no	SSR popl
umc1383	AC	1.08	805.30	yes	IBM2
umc1843		1.08	805.30	no	SSR popl
bnl29d(pds)		1.08	805.83	no	BNL 2002
bnlg100		1.09-1.10	805.95	no	BNL 2002
umc2240	AC	1.08-1.09	806.50	no	IBM2
ufg(vp2274a)		1.08	807.63	no	BNL 2002
umc1914	AC	1.08-1.09	809.90	no	IBM2
lim247		1.08-1.09	811.00	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
AY109506	AC	1.08-1.09	811.00	no	IBM2
cdj2	AC	1.09	812.30	yes	IBM2
csu1174		1.09	812.30	no	UMC 98
rgpr250		1.09	812.30	no	UMC 98
csu21a(ago)		1.09	812.30	no	UMC 98
umc24b(hcb)		1.09	812.30	no	UMC 98
umc1512	AC	1.08-1.09	813.30	no	IBM2
csu745e(rpPo)	C	1.09	813.60	no	UMC 98
rz474b(dnaj)		1.08-1.09	813.60	no	IBM2
ufg53		1.09	815.20	yes	IBM2
bnl8.10a		1.09	815.76	no	BNL 96
ufg10	C	1.08-1.09	817.30	no	IBM2
uaz268c		1.09	817.60	no	BNL 2002
dup218b		1.09	818.52	no	BNL 2002
nfc103a	C	1.08	819.03	no	ChromDB
csu696		1.09	821.50	yes	IBM2
rth1		1.09	824.40	no	UMC 98
cdo795a		1.09	824.40	no	UMC 98
umc27b	C	1.09	825.14	no	BNL 2002
rz403		1.09	825.80	yes	IBM2
umc1715		1.09	828.29	no	SSR popl
npi615		1.09	828.36	no	BNL 2002
csu1097c		1.09	828.75	no	UMC 98
chrom7		1.09	833.00	yes	IBM2
asg63b		1.09	833.71	no	UMC 98
csu511a		1.09	833.71	no	UMC 98
umc252b		1.09	836.51	no	UMC 98
ias7		1.09	836.70	no	BNL 96
glb1	AC	1.09	839.30	yes	IBM2
umc2047	AC	1.09	842.30	yes	IBM2
umc140a		1.09	846.10	yes	IBM2
umc129(geb)		1.09	846.10	no	UMC 98
bnlg1331	AC	1.09	847.00	yes	IBM2
csu222a(wsi)		1.09	847.30	yes	IBM2
umc1298	AC	1.09	850.27	no	SSR popl
rgpc746(rnp)		1.09	854.70	no	UMC 98
AY110452		1.09	855.40	yes	IBM2
tbp1		1.09	857.65	no	BNL 96
bnlg1041		1.06	858.18	no	BNL 2002
bnlg1720		1.09-1.10	858.39	no	BNL 2002
csu200b		1.09	858.91	no	UMC 98
bnl17.04(tua)		1.09-1.10	860.73	no	BNL 2002
msu21(aglu)		1.09	862.10	yes	IBM2
umc1411	AC	1.09	863.92	no	SSR popl
rpa6b		1.09	864.60	no	UMC 98
uat1(lox)		1.09	864.60	no	UMC 98
umc197a(rip)		1.09	864.60	yes	IBM2
bcd1072c(hsp70)		1.09	864.60	no	UMC 98
ucsd61e		1.08	869.20	no	BNL 2002
umc2411		1.09	869.42	no	SSR popl
lpe1		1.03	871.90	no	BNL 96
ole4	AC	1.09	873.50	no	SSR popl
csu110b		1.09	874.30	no	UMC 98
csu554a(rnh)		1.09	874.30	yes	IBM2
csu921a(ppp)		1.09	874.30	no	UMC 98
ucsd113d		1.09	875.17	no	BNL 2002
umc2028		1.09	875.58	no	SSR popl
bnlg1502		1.09-1.10	875.60	no	BNL 2002
mmp195d		1.09	879.70	no	IBM2
umc1306		1.09	881.24	no	SSR popl
umc1082	AC	1.09	882.70	yes	IBM2
umc1431	AC	1.09	886.10	yes	IBM2
umc107a(croc)	AC	1.10	886.90	yes	IBM2
gln2	C	1.10	887.30	no	UMC 98
cdo122a(nad)		1.10	887.50	yes	IBM2
AI665421	AC	1.10	889.90	yes	IBM2
bnlg400		1.09	890.69	no	BNL 2002
bnlg1597a		1.09-1.10	890.87	no	BNL 2002
AY110019	C	1.10	890.90	no	IBM2
rz912a(phy)		1.10	891.48	no	UMC 98
bcd808a		1.10	891.70	yes	IBM2
nfa103a		1.10	892.10	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc2189	AC	1.10	892.20	no	IBM2
chb101b		1.10	892.20	no	ChromDB
chr106a		1.10	892.20	no	ChromDB
umc1290	AC	1.09	892.77	no	SSR popII
PCO087393	C	1.10	892.91	no	INDEL
mmp141		1.10	893.70	yes	IBM2
tua2		1.10	898.44	no	UMC 98
knox3		1.10	898.44	no	UMC 98
tua1	C	1.10	898.44	no	UMC 98
csu248		1.10	898.44	no	UMC 98
csu947		1.10	898.44	no	UMC 98
bnl15.18		1.10	898.44	no	UMC 98
csu272a(tua)		1.10	898.44	no	UMC 98
umc2149	AC	1.10	898.70	yes	IBM2
mmp83		1.10	899.20	yes	IBM2
phyA1		1.10	900.00	no	BNL 96
bnl17.21(tua)		1.10	900.00	no	BNL 2002
AY111936	AC	1.10	902.10	yes	IBM2
kn1		1.10	903.86	no	BNL 2002
BE639426	AC	1.10	907.10	yes	IBM2
umc2223		1.10	907.14	no	SSR popII
uaz167a		1.10	910.39	no	BNL 2002
adh1		1.10	910.77	no	SSR popII
umc1885		1.10	910.77	no	SSR popII
pge19		1.10	912.51	no	BNL 2002
umc72b		1.10	912.51	no	BNL 2002
bnlg1268		1.09	912.51	no	BNL 2002
bnlg1671	AC	1.10	913.40	yes	IBM2
hxa102b		1.10	913.40	no	ChromDB
bnlg1116		1.09-1.10	913.57	no	BNL 2002
mmp172		1.10	915.20	yes	IBM2
npi407		1.10	916.70	yes	IBM2
umc1534		1.10	918.21	no	SSR popII
npi98a		1.10	920.10	no	UMC 98
rz632c		1.10	920.10	no	UMC 98
umc106a		1.10	920.10	no	UMC 98
rz630a(sat)		1.10	920.10	yes	IBM2
umc1774	C	1.10	923.01	no	SSR popII
vef101b	C	1.10	923.99	no	ChromDB
ucsd64c		1.10	925.07	no	BNL 2002
ucsd104b(zag6)		1.10	925.29	no	BNL 2002
lim99a		1.10	926.30	yes	IBM2
bcd450b		1.10	926.83	no	UMC 98
phi308707	C	1.10	927.40	no	IBM2
npi282b		1.10	927.90	yes	IBM2
PCO095183	C	1.10	929.52	no	INDEL
lim78		1.10	930.50	yes	IBM2
mta1		1.10	932.92	no	UMC 98
uat4a		1.10	932.92	no	UMC 98
csu261		1.10	932.92	no	UMC 98
csu137b(ap)		1.10	932.92	no	UMC 98
bnlg1347		1.10	933.09	no	BNL 2002
mpik22a(zmm4)		1.10	934.49	no	BNL 2002
uaz130a(tlk)	C	1.10	934.50	yes	IBM2
asg54a		1.10	936.13	no	UMC 98
mmp165		1.10	939.70	no	IBM2
mmp87		1.10	942.40	yes	IBM2
knox8		1.10	944.47	no	UMC 98
npi581a		1.10	948.17	no	BNL 96
ucsd106d		1.10	949.67	no	BNL 2002
lim39		1.10	950.20	yes	IBM2
bnl7.25a		1.10	951.20	no	IBM2
csu954		1.10	951.20	no	UMC 98
umc147b		1.10	952.19	no	BNL 2002
bnl17.18b		1.10	952.19	no	BNL 96
umc257	C	1.10	963.20	no	IBM2
phi1		1.11	963.60	no	UMC 98
rpa7a		1.11	963.60	no	UMC 98
umc264		1.11	963.60	no	UMC 98
umc161a	C	1.11	963.60	yes	IBM2
csu1169b		1.11	963.60	no	UMC 98
uaz21a		1.10	963.60	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
AY109834	C	1.11	970.00	yes	IBM2
phi265454	AC	1.11	973.00	yes	IBM2
npi75b		1.10	973.80	no	BNL 2002
csu63a(cdj)		1.11	973.97	no	UMC 98
csu570b(mtl)		1.11	973.97	no	UMC 98
umc1500	AC	1.11	985.11	no	SSR popII
ias13a		1.11	985.24	no	BNL 2002
AY110426	C	1.11	987.30	yes	IBM2
uaz166a		1.10	992.50	no	BNL 2002
ufg14		1.11	995.00	no	IBM2
mmp195g		1.11	1000.90	yes	IBM2
bnl8.08a		1.11	1001.46	no	BNL 2002
bnlg1023b		1.06	1002.02	no	BNL 2002
npi238		1.11	1006.10	yes	IBM2
asg68b		1.11	1006.10	no	UMC 98
jpsb239b		1.11	1006.60	no	IBM2
usu1a(fnr)		1.11	1006.90	no	UMC 98
cdo87b(ptk)	C	1.11	1006.90	yes	IBM2
umc1553	C	1.11	1007.60	yes	IBM2
gdh1		1.11	1008.46	no	BNL 2002
umc1421		1.11	1010.20	yes	IBM2
umc1681	AC	1.11	1014.90	yes	IBM2
bnlg2331		1.11	1016.21	no	BNL 2002
uaz10		1.05	1018.62	no	BNL 2002
uaz12		1.04-1.05	1018.62	no	BNL 2002
csu868(trp)		1.11	1019.06	no	UMC 98
umc1129	AC	1.11	1019.10	yes	IBM2
bnl8.29a		1.11	1021.40	yes	IBM2
ohp1	AC	1.11	1021.40	no	BNL 2002
tum5		1.07-1.12	1021.40	no	BNL 2002
csu604a(trh)	AC	1.11	1021.40	no	UMC 98
umc1111	C	1.11	1022.60	yes	IBM2
umc1862		1.11	1023.30	no	SSR popII
npi241a		1.11	1025.70	yes	IBM2
uaz240c		1.11	1026.12	no	BNL 2002
hon110		1.11	1027.30	no	ChromDB
umc1737	AC	1.11	1029.96	no	SSR popII
csu33b	AC	1.11	1030.14	no	UMC 98
umc2241	AC	1.11	1031.00	yes	IBM2
umc2242	AC	1.11	1031.80	no	IBM2
bnlg1055		1.11	1033.99	no	BNL 2002
umc1118	AC	1.11	1034.30	yes	IBM2
ccr1		1.11	1037.79	no	UMC 98
csu381		1.11	1037.79	no	UMC 98
csu755		1.11	1037.79	no	UMC 98
csu536(ccr)		1.11	1037.79	no	UMC 98
csu663b(PSA D)		1.11	1037.79	no	UMC 98
bnlg667a	AC	1.11	1039.42	no	SSR popII
AY110479	C	1.11	1039.70	yes	IBM2
umc1538		1.11	1040.93	no	SSR popII
umc1744	C	1.11	1051.10	yes	IBM2
umc84a	AC	1.11	1054.20	yes	IBM2
umc86a		1.11	1054.70	yes	IBM2
csu134a(thf)		1.11	1054.73	no	UMC 98
umc1630	C	1.11	1055.90	yes	IBM2
ids1		1.11	1057.19	no	SSR popII
php15058		1.11	1057.80	no	IBM2
PCO063726	C	1.11	1060.61	no	INDEL
mpik9		1.12	1062.19	no	BNL 2002
AY110160	C	1.11	1063.80	yes	IBM2
bnlg504		1.11	1065.42	no	BNL 2002
bnlg131	C	1.11	1065.62	no	SSR popII
csu175e(eif5A)		1.11	1065.66	no	UMC 98
chi1		1.11	1070.58	no	UMC 98
bnlg2123	C	1.11	1073.46	no	SSR popII
dpg1a		1.11	1084.42	no	BNL 2002
bnlg257		1.07	1091.35	no	BNL 2002
cdo457b		1.11	1091.89	no	UMC 98
lim228		1.11	1092.40	yes	IBM2
csu266		1.11	1095.02	no	UMC 98
umc1725	AC	1.12	1096.05	no	SSR popII
CL62610_1	C	1.11	1096.12	no	INDEL

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc1331	AC	1.11	1096.50	yes	IBM2
phi227562	AC	1.11	1097.40	no	IBM2
csu1089		1.11	1098.00	yes	IBM2
rz614(fdx)		1.12	1098.00	no	UMC 98
fdx3	AC	1.11	1098.40	no	IBM2
umc2243	AC	1.11	1098.40	no	IBM2
umc2045	C	1.11	1099.30	yes	IBM2
phi064	AC	1.11	1103.00	yes	IBM2
uaz22		1.12	1103.73	no	BNL 2002
tum4		1.07-1.12	1110.28	no	BNL 2002
bnl6.32		1.12	1113.20	yes	IBM2
rgpr3239a		1.11-1.12	1113.20	no	UMC 98
csu865(phb)		1.11-1.12	1113.20	no	UMC 98
umc1605	AC	1.12	1117.10	yes	IBM2
umc1797		1.12	1119.09	no	SSR popl
umc1819	AC	1.12	1119.20	no	IBM2
umc2244	AC	1.11	1120.30	yes	IBM2
AY110983		1.12	1121.19	no	INDEL
mmp31		1.12	1121.90	no	IBM1
lim331		1.12	1121.90	no	IBM1
ufg35b		1.12	1121.90	no	IBM1
ufg75a		1.12	1121.90	no	IBM1
tufm1	AC	1.12	1121.90	yes	IBM2
csu1084		1.12	1122.42	no	UMC 98
csu1146		1.12	1122.42	no	UMC 98
csu1154		1.12	1122.42	no	UMC 98
npi294i		1.12	1122.42	no	UMC 98
acp4		1.12	1122.42	no	BNL 96
csu1114		1.12	1128.24	no	UMC 98
csu1193		1.12	1132.60	no	UMC 98
AY109916	AC	1.12	1137.90	yes	IBM2
sdg119		1.12	1272.50	no	ChromDB
PCO091677	C	2.00-2.01	-47.10	no	INDEL
AY110535	AC	2.00	0.00	yes	IBM2
crr1		2.00-2.01	2.60	no	SSR popl
umc2246	AC	2.03	3.10	no	IBM2
isu53a		2.00-2.01	3.80	yes	IBM2
bnl(tas1a)		2.00	6.80	no	BNL 96
pgs1		2.00	13.10	no	BNL 96
umc1419	AC	2.00-2.01	15.20	no	SSR popl
bnl8.45a	C	2.01	18.80	no	SSR popl
npi239		2.00-2.01	18.80	no	UMC 98
umc2Stelo-1		2.00-2.01	18.80	no	UMC 98
umc2Stelo-2		2.00-2.01	18.80	no	UMC 98
csu1192(apx)		2.00-2.01	18.80	no	UMC 98
rny(pcr)c		2.00	20.83	no	BNL 96
csu326		2.01	21.13	no	UMC 98
bnl10.38b		2.01	21.39	no	UMC 98
npi417a		2.00	22.51	no	BNL 2002
agrc805		2.01	23.72	no	UMC 98
uaz21b		2.00	24.55	no	BNL 2002
AY109692	C	2.01	25.30	no	IBM2
isu144a		2.01	27.40	yes	IBM2
phi96100	AC	2.01	28.10	no	IBM2
umc2245	AC	2.01	30.90	yes	IBM2
php20568b		2.01	34.30	yes	IBM2
bnlg1092		2.01	36.78	no	BNL 2002
csu29a	AC	2.01	37.96	no	UMC 98
umc2363	C	2.01 - 2.02	40.20	no	SSR popl
jpsb485b		2.01	43.30	yes	IBM2
umc1227		2.01	45.55	no	SSR popl
umc1165	AC	2.01	47.40	yes	IBM2
csu300a		2.01	48.31	no	UMC 98
umc53a		2.02	50.90	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
csu1053		2.02	50.90	no	UMC 98
csu642	AC	2.02	52.02	no	UMC 98
mir3b(thp)		2.02	53.23	no	UMC 98
fht1		2.01 - 2.02	53.39	no	BNL 96
rz590a		2.02	54.54	no	UMC 98
bnlg1302		2.02	55.11	no	BNL 2002
cdo524		2.02	55.57	no	UMC 98
csu552		2.02	55.57	no	UMC 98
csu12d(cin4)		2.02	55.57	no	UMC 98
npi254a		2.02	55.60	yes	IBM2
csu1148		2.02	57.53	no	UMC 98
umc1542	AC	2.02	57.60	yes	IBM2
umc1552		2.01 - 2.02	59.51	no	SSR popl
bnlg1297		2.02	59.90	yes	IBM2
cdo244b(crp)		2.02	60.42	no	UMC 98
bnlg1017		2.02	65.70	yes	IBM2
npi577a		2.02	73.44	no	BNL 96
umc1980		2.02	75.60	yes	IBM2
bcd98x		2.02	76.96	no	BNL 2002
umc2403		2.02	77.44	no	SSR popl
umc1265		2.02	77.70	yes	IBM2
uaz24b		2.02	79.14	no	BNL 2002
AY109603		2.02	82.30	yes	IBM2
bnlg1338		2.01	85.65	no	BNL 2002
CL52019_1	C	2.01 - 2.02	87.02	no	INDEL
BE640649	C	2.02	87.80	yes	IBM2
npi208c		2.02	90.30	yes	IBM2
npi421a		2.02	90.30	yes	IBM2
pbs5		2.02	90.30	no	BNL 2002
umc1961	C	2.02	92.00	no	IBM2
umc1824a	C	2.02	92.60	yes	IBM2
umc1823	C	2.02	92.80	no	IBM2
sgb101	C	2.02	92.90	no	ChromDB
mmc0111	C	2.02	93.30	yes	IBM2
AY109516	AC	2.02	94.40	yes	IBM2
uaz25b		2.02	94.55	no	BNL 2002
uaz26a		2.02	94.55	no	BNL 2002
uaz251b(rpS11)		2.02	109.65	no	BNL 2002
dmt102b	C	2.02	113.79	no	ChromDB
cpx1		2.02	118.28	no	BNL 2002
npi290b		2.02	118.28	no	BNL 96
eks1	C	2.02	122.40	yes	IBM2
agrc539a		2.02	122.40	no	UMC 98
umc1756	C	2.02	141.60	no	IBM2
bnlg2277	C	2.02	143.10	yes	IBM2
csu1091		2.02	144.67	no	UMC 98
ucsd(ffyB)		2.02	145.87	no	BNL 96
CL12768_1	C	2.02-2.03	146.85	no	INDEL
ias6a		2.02	148.10	no	BNL 2002
bnlg1327	AC	2.02	148.10	yes	IBM2
myb5		2.02	149.20	yes	IBM2
mpik4b		2.03	150.00	no	BNL 2002
csu1113		2.02	150.40	no	UMC 98
umc2193	C	2.03	152.77	no	SSR popl
umc1262	C	2.02	153.10	yes	IBM2
umc1261	C	2.02	154.60	yes	IBM2
umc1518		2.02	155.72	no	SSR popl
csu425(gct)		2.02	156.12	no	UMC 98
umc1422	AC	2.02	156.60	yes	IBM2
csu348a		2.02	158.88	no	UMC 98
AY106040	C	2.03	163.50	yes	IBM2
bnlg125	C	2.03	164.33	no	SSR popl
umc6	C	2.03	164.80	yes	IBM2
csu1058		2.03	165.03	no	UMC 98
umc6a	C	2.03	165.03	no	INDEL
si605074C02	C	2.03	168.64	no	INDEL
lim328		2.03	171.50	yes	IBM2
mmc0231		2.03	179.40	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc44b	C	2.03	182.30	yes	IBM2
nfd102	C	2.03	186.20	no	ChromDB
bnlg1537		2.03	186.30	no	BNL 2002
inra1(tmp)		2.03	189.79	no	UMC 98
bnlg1393		2.02	190.24	no	BNL 2002
npi287a		2.03	191.50	yes	IBM2
umc61		2.03	193.30	yes	IBM2
bcd855a(ext)	C	2.03	193.30	no	UMC 98
csh6		2.03	193.38	no	UMC 98
csh7		2.03	193.46	no	UMC 98
csu176		2.03	195.38	no	UMC 98
csu498		2.03	195.38	no	UMC 98
b1	AC	2.03	197.20	yes	IBM2
npi402		2.03	197.60	no	BNL 96
umc1845		2.03	197.89	no	SSR popl
bnlg1621b		2.03	200.33	no	BNL 2002
mmp33		2.03	203.10	yes	IBM2
bnlg2248		2.03	207.74	no	BNL 2002
agrr1		2.03	207.76	no	UMC 98
uaz27b		2.03	207.76	no	BNL 2002
ufg3a(ivr)		2.03	207.76	no	UMC 98
csu761		2.03	211.35	no	UMC 98
psr901		2.03	212.20	yes	IBM2
npi269a		2.03	212.90	no	BNL 96
csu1167		2.03	212.95	no	UMC 98
ufg28b		2.03	216.00	no	IBM2
bnl(plB)		2.04	216.48	no	BNL 2002
ole1	AC	2.03	216.50	yes	IBM2
sdg104	C	2.03	216.50	no	ChromDB
npi587		2.03	216.80	no	IBM2
mmp42		2.03	218.70	yes	IBM2
npi583		2.03	220.36	no	BNL 96
csu571a(pp)		2.03	221.34	no	UMC 98
AI920398	AC	2.03	221.40	yes	IBM2
agrr167a		2.03	223.33	no	UMC 98
bnl10.42a		2.03	223.33	no	UMC 98
umc1555	AC	2.03	225.38	no	SSR popl
bnl12.36a		2.03-2.04	225.70	no	BNL 96
bnlg1064	AC	2.03	227.10	yes	IBM2
bnl17.23b(pal)		2.03	227.30	no	BNL 2002
sdg107		2.03	228.40	no	ChromDB
AY104214	AC	2.03	236.40	yes	IBM2
csu861		2.03	236.51	no	UMC 98
csu821		2.03	238.51	no	UMC 98
si606023F08	C	2.03-2.04	242.86	no	INDEL
umc34	AC	2.04	243.30	yes	IBM2
csu40(grx)		2.03-2.04	243.30	no	UMC 98
phi109642	AC	2.03-2.04	244.00	no	IBM2
bnlg981	AC	2.04	244.70	yes	IBM2
npi607		2.04	247.20	yes	IBM2
bnl1.45b		2.04	247.20	no	BNL 2002
npi248		2.04	248.54	no	BNL 96
umc1024	AC	2.04	250.10	yes	IBM2
umc1769	C	2.04	250.94	no	SSR popl
umc2247	AC	2.04	251.10	yes	IBM2
bnl8.04		2.04	252.27	no	UMC 98
umc1026		2.04	256.05	no	SSR popl
mpik35b		2.04	258.34	no	BNL 2002
bnlg2287		2.04	258.96	no	BNL 2002
isu2117b		2.04	262.54	no	BNL 2002
AY110266	C	2.04	262.60	yes	IBM2
PCO098412	C	2.04	263.84	no	INDEL
csu348b		2.04	266.76	no	UMC 98
csu350(gpdp)		2.04	266.76	no	UMC 98
umc1326		2.04	266.80	yes	IBM2
cta1	C	2.04	267.21	no	SSR popl
isu58a		2.04	267.50	no	IBM2
umc2248	AC	2.04	267.80	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc259b	C	2.04	268.40	yes	IBM2
csu735(geb)		2.04	269.52	no	UMC 98
umc1448	C	2.04	269.60	yes	IBM2
PCO140184	C	2.04	269.87	no	INDEL
umc234		2.04	271.59	no	UMC 98
hag103a	C	2.04	273.60	no	ChromDB
umc1465	AC	2.04	273.70	yes	IBM2
umc1541	AC	2.04	274.90	yes	IBM2
npi242c		2.04	274.95	no	BNL 96
mmp122		2.04	275.60	no	IBM2
CL58207_1	C	2.04	276.17	no	INDEL
umc135		2.04	277.80	no	UMC 98
npi220d	C	2.04	277.80	no	UMC 98
mmp167		2.04	281.30	yes	IBM2
umc1579		2.04	284.40	no	SSR popl
prp2	AC	2.04	284.70	yes	IBM2
CL10221_1	C	2.04	285.89	no	INDEL
bnl12.09		2.04	287.11	no	BNL 2002
pbs12		2.04	288.13	no	BNL 2002
dpg6a		2.04	288.53	no	BNL 2002
umc134b		2.04	288.80	yes	IBM2
AY110485	AC	2.04	292.50	yes	IBM2
csu56c(ohp)	C	2.04	292.87	no	UMC 98
lim86		2.04	293.80	no	IBM2
umc1580	AC	2.04	294.20	yes	IBM2
bnlg1018	AC	2.04	294.20	yes	IBM2
bnlg1175	AC	2.04	295.10	yes	IBM2
csu334		2.04	295.39	no	UMC 98
csu762		2.04	295.39	no	UMC 98
csu393(fbn)	C	2.04	295.39	no	UMC 98
bnlg166		2.04	295.74	no	BNL 2002
umc2251	AC	2.04	295.80	yes	IBM2
umc2249	AC	2.04	296.30	yes	IBM2
bnlg1909		2.05	297.40	no	BNL 2002
bnl35e(blr)		2.04	297.48	no	BNL 2002
mmp91		2.04	302.60	yes	IBM2
accA		2.05	305.51	no	BNL 96
bnlg108	C	2.04	306.30	yes	IBM2
bnlg1861a		2.04	307.02	no	BNL 2002
bnlg1818		2.04	307.69	no	BNL 2002
pic3		2.04	307.78	no	BNL 2002
bnlg1914		2.05	307.86	no	BNL 2002
csh(pr11)		2.04	308.13	no	BNL 2002
uaz234		2.05	308.45	no	BNL 2002
uaz235(px)		2.05	308.45	no	BNL 2002
npi271a		2.05	308.66	no	BNL 2002
bnlg1085a		2.04	308.98	no	BNL 2002
hcf106		2.05	309.37	no	BNL 2002
bnlg1063b	C	2.05	309.37	no	BNL 2002
dupssr21		2.05	309.40	no	BNL 2002
bnlg1140		2.08	309.69	no	BNL 2002
msu1		2.04	309.84	no	BNL 2002
bnl29(pds3)		2.05	309.84	no	BNL 2002
uaz25c		2.05	309.96	no	BNL 2002
bnlg1613		2.04	309.96	no	BNL 2002
bnlg2328a		2.05	309.96	no	BNL 2002
pbs15		2.05	309.96	no	BNL 96
umc1259	C	2.04	310.20	yes	IBM2
umc2030	AC	2.04	313.50	yes	IBM2
umc1861	AC	2.04	314.40	yes	IBM2
npi242a		2.04	315.00	yes	IBM2
umc8b		2.04	315.50	no	IBM2
sdg102a		2.04	315.50	no	ChromDB
umc2088	AC	2.04	316.70	yes	IBM2
csu1117b		2.04	316.84	no	UMC 98
bnlg121		2.04	319.30	yes	IBM2
tug4		2.04	319.30	no	BNL 2002
umc2079	AC	2.04	320.70	yes	IBM2
php10012		2.04	321.00	yes	IBM2
hda102	C	2.04	322.20	no	ChromDB
hrg1	C	2.04	323.30	no	IBM2
rgpg271	C	2.04	328.79	no	UMC 98

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc2250	C	2.04	329.00	yes	IBM2
umc1485	AC	2.04	329.60	no	SSR popl
mmp89		2.04	331.40	yes	IBM2
bcd450f		2.04	331.93	no	UMC 98
umc184b(glb)		2.04	331.93	no	UMC 98
umc2125	AC	2.04	332.20	no	IBM2
umc2007		2.04	334.20	yes	IBM2
csu255a		2.04	335.34	no	UMC 98
uaz262		2.05	336.40	no	IBM2
umc1455	AC	2.04-2.05	338.13	no	SSR popl
csu148b(cx)		2.04	338.21	no	UMC 98
umc1454	AC	2.04	339.30	yes	IBM2
umc1235	AC	2.04	339.82	no	SSR popl
umc1007		2.04-2.05	340.54	no	SSR popl
umc131		2.05	342.40	yes	IBM2
umc1410	AC	2.04-2.05	342.40	no	SSR popl
psr922b		2.04-2.05	342.90	no	IBM2
isu89		2.05	343.00	yes	IBM2
psr666		2.05	344.20	yes	IBM2
umng2		2.05	344.26	no	UMC 98
umc1581	C	2.05	344.40	no	IBM2
csu1060		2.05	344.42	no	UMC 98
umng1		2.05	344.50	no	UMC 98
csu143		2.05	344.50	no	UMC 98
umc1635	AC	2.05	344.80	no	IBM2
csu4a		2.05	344.90	no	UMC 98
csu833		2.05	344.90	no	UMC 98
csu842		2.05	344.90	no	UMC 98
csu1066		2.05	344.90	no	UMC 98
csu1163		2.05	344.90	no	UMC 98
umn1(acc)		2.05	344.90	no	UMC 98
zpu1	AC	2.05	345.00	yes	IBM2
umc1922		2.05	345.20	no	IBM2
agrp173		2.05	345.71	no	UMC 98
csu671a		2.05	345.71	no	UMC 98
PCO096835	C	2.05	346.24	no	INDEL
mmp119		2.05	346.50	yes	IBM2
asg29b		2.05	346.52	no	UMC 98
csu1059		2.05	346.84	no	UMC 98
bnlg1184		2.06	347.11	no	BNL 2002
bnlg1887		2.06	347.11	no	BNL 2002
uaz179		2.05	347.60	no	BNL 2002
uaz28b		2.05	347.60	no	BNL 2002
umc1884		2.05	347.96	no	SSR popl
ucsd1.8c		2.05	348.28	no	BNL 2002
uaz135		2.05	348.74	no	BNL 2002
uaz181		2.05	348.74	no	BNL 2002
AY109687	AC	2.05	349.00	yes	IBM2
csu2a		2.05	349.67	no	UMC 98
uaz236b(ser)		2.05	349.69	no	BNL 2002
ssu2		2.05	350.00	no	BNL 2002
bnl20		2.05	350.00	no	BNL 2002
umc8c		2.05	350.00	no	BNL 2002
psr109a		2.05	350.00	no	BNL 2002
bnl17.25		2.05	350.00	no	BNL 2002
bnlg2039		2.05	350.00	no	BNL 2002
mwg645i		2.05-2.06	350.00	no	BNL 2002
hsbp1		2.05	350.86	no	SSR popl
csu850		2.05	351.13	no	UMC 98
csu851a		2.05	351.13	no	UMC 98
umc8g		2.05	352.18	no	UMC 98
AW681281	C	2.05	352.40	no	IBM2
csu1073a		2.05	353.23	no	UMC 98
umc1459	AC	2.05	353.81	no	SSR popl
csu1080b		2.05	354.60	yes	IBM2
csu337		2.05	355.97	no	UMC 98
npi123c		2.05	357.10	no	UMC 98

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc2110	AC	2.05	357.50	no	IBM2
umc255a	AC	2.06	358.32	no	SSR popl
mmc0401	AC	2.05	358.60	yes	IBM2
umc2252	C	2.05	359.10	no	IBM2
umc112a		2.06	360.76	no	UMC 98
umc1028	AC	2.06	361.20	yes	IBM2
tda217b		2.06	364.27	no	UMC 98
AY110336	AC	2.06	364.50	no	IBM2
npi297		2.06	367.20	yes	IBM2
rz509b(mip)		2.06	367.33	no	UMC 98
umc176	C	2.06	368.00	no	SSR popl
pbf1	AC	2.06	368.10	no	IBM2
umc1156	AC	2.06	368.57	no	SSR popl
bnlg1831	AC	2.06	368.80	no	IBM2
bnlg180		2.05	369.18	no	BNL 2002
uaz18b		2.05	369.24	no	BNL 2002
umc1079	AC	2.06	369.30	yes	IBM2
uaz265a(sbe1)		2.05-2.06	369.51	no	BNL 2002
ici99		2.06	369.53	no	BNL 2002
umc2b	C	2.06	369.53	no	BNL 2002
uaz194b(ugu)		2.06	369.53	no	BNL 2002
uaz29		2.05	369.54	no	BNL 2002
bcd249a		2.06	369.83	no	BNL 2002
bnlg371		2.05	369.90	no	BNL 2002
mpik33i		2.05-2.06	369.91	no	BNL 2002
npi356a		2.06	370.31	no	BNL 96
umc267(kapp)		2.06	370.47	no	UMC 98
csu281b		2.06	370.74	no	UMC 98
kpl1d		2.06	372.06	no	UMC 98
dia1		2.06	372.77	no	BNL 96
bnlg1036	AC	2.06	373.50	yes	IBM2
bnlg1225		2.06	373.68	no	BNL 2002
csu747a(arf)	C	2.06	373.74	no	UMC 98
umc55a		2.06	373.90	no	UMC 98
pbs13b		2.06	373.90	no	BNL 2002
ucsd141b		2.06	373.92	no	BNL 2002
bnl35c(blr)		2.06	373.94	no	BNL 2002
bnlg1396		2.06	373.95	no	BNL 2002
bnlg2313b		2.06	373.96	no	BNL 2002
uaz352b		2.06	374.05	no	UMC 98
umc139a		2.06-2.08	375.12	no	UMC 98
umc1658	AC	2.06	375.30	yes	IBM2
umc2253	C	2.05	376.10	yes	IBM2
ufg2(agg2)		2.06	376.31	no	BNL 96
umc2178	C	2.06	377.40	yes	IBM2
umc2254	AC	2.05	378.70	no	IBM2
AY105915	C	2.06	378.90	yes	IBM2
tug3		2.06	379.20	no	BNL 2002
umc1875	C	2.06	379.20	no	IBM2
bnlg1138	AC	2.06	379.20	yes	IBM2
umc1763		2.06	379.20	no	SSR popl
umc1923	AC	2.06	379.40	no	IBM2
bcd1087a		2.06	379.85	no	UMC 98
umc2192	C	2.06	379.97	no	SSR popl
umc1080	AC	2.06	380.00	yes	IBM2
jpsb365b		2.06	380.50	yes	IBM2
umc2194	C	2.06	380.58	no	SSR popl
umc1755	AC	2.06	380.60	no	IBM2
AY109981	AC	2.06	380.80	no	IBM2
ucsd1.8b		2.06	380.99	no	BNL 2002
umc1004	AC	2.06	381.80	yes	IBM2
csu270		2.06	382.30	no	UMC 98
npi456		2.06	382.52	no	BNL 96
PCO063114	C	2.06-2.07	383.38	no	INDEL
uky1(P450)		2.06	383.98	no	UMC 98
npi565b		2.05-2.06	384.60	no	BNL 2002
bnlg1047c		2.05	384.76	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnl17.24		2.06	385.07	no	BNL 2002
npi221b		2.06	386.59	no	BNL 2002
umc1806		2.06	386.59	no	SSR popl
npi277a		2.06-2.07	386.59	no	BNL 96
umc2372		2.06	389.03	no	SSR popl
uaz30c		2.06-2.07	389.79	no	BNL 2002
csu1051		2.06	391.16	no	UMC 98
umc1749		2.06	391.25	no	SSR popl
umc2023		2.06	391.41	no	SSR popl
bnlg1329	AC	2.08	391.62	no	BNL 2002
bnlg1413		2.07	393.38	no	BNL 2002
bnlg2103		2.06	394.48	no	BNL 2002
npi47a		2.07	394.52	no	UMC 98
umc98a		2.07	394.52	no	UMC 98
bnl27		2.07	394.52	no	BNL 2002
umc5a	C	2.07	394.52	no	SSR popl
umc29b		2.06-2.07	394.52	no	UMC 98
tjp1(thp)		2.06-2.07	394.52	no	UMC 98
umc1946		2.06-2.07	394.52	no	SSR popl
umc2019	AC	2.07	394.97	no	SSR popl
bnlg1258		2.08	395.59	no	BNL 2002
npi613		2.07	396.04	no	BNL 2002
uaz228a(his2b)		2.06	396.32	no	BNL 2002
amy3	AC	2.07	399.43	no	UMC 98
umc1637		2.07	399.72	no	SSR popl
umc1108	AC	2.07	401.50	yes	IBM2
umc2402		2.07-2.08	406.80	no	SSR popl
bcd926b	C	2.07	409.30	yes	IBM2
asg72a		2.07	411.40	no	UMC 98
php20005		2.07	411.40	yes	IBM2
umc1497		2.07	411.98	no	SSR popl
umc2129	AC	2.07	414.10	yes	IBM2
ucsd64i		2.07	415.88	no	BNL 96
mmp177b		2.07	416.60	no	IBM2
umc2220		2.07	416.73	no	SSR popl
umc1554	C	2.07	417.98	no	SSR popl
umc2205		2.07	420.56	no	SSR popl
umc1890	AC	2.07	422.70	yes	IBM2
umc2032	AC	2.04	424.49	no	SSR popl
csu1103		2.07	424.60	no	UMC 98
umc1285	C	2.04	425.23	no	SSR popl
AY110410	AC	2.07	427.90	yes	IBM2
php20569b		2.07	428.45	no	BNL 96
uaz269b(kri)		2.07	433.88	no	BNL 2002
mmc0271		2.07	438.30	no	SSR popl
nfc104b		2.07	443.41	no	ChromDB
rz474c(dhaj)		2.07	446.90	yes	IBM2
uaz194a(ugu)		2.07	450.40	yes	IBM2
ugp1		2.07	450.99	no	UMC 98
asg84a		2.07	450.99	no	UMC 98
csu635		2.07	450.99	no	UMC 98
umc22a		2.07	450.99	no	UMC 98
mpik27a(zmm7)		2.07	450.99	no	UMC 98
AY109917	C	2.07	452.20	no	IBM2
nfd101b		2.07	452.20	no	ChromDB
sdg106		2.07	452.40	no	ChromDB
phi251315	C	2.07	453.80	yes	IBM2
umc2380	C	2.07-2.08	459.13	no	SSR popl
AY109722		2.07	461.70	yes	IBM2
umc1042		2.07	466.65	no	SSR popl
csu54a		2.07	467.16	no	BNL 96
bnlg1633		2.07	468.70	no	BNL 2002
umc88(P450)		2.07	469.10	no	BNL 2002
bnlg1267	AC	2.08	470.73	no	BNL 2002
bnlg1045		2.07	470.99	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnlg2144		2.08	471.22	no	BNL 2002
sdg116b		2.07	471.40	no	ChromDB
umc36b		2.07	472.90	yes	IBM2
php20017a		2.07	474.40	yes	IBM2
chr119		2.07	474.40	no	ChromDB
bnlg2077	AC	2.07-2.08	474.80	no	IBM2
umc1560	AC	2.07	475.10	yes	IBM2
psr135b		2.07-2.08	477.90	no	IBM2
asg20	AC	2.08	478.70	yes	IBM2
umc4a	C	2.08	478.70	no	UMC 98
agrr85a		2.08	478.70	no	UMC 98
umc1536		2.08	478.70	no	SSR popl
csu658(mam)		2.08	478.70	no	UMC 98
csu657(atpd)		2.08	478.70	no	UMC 98
csu800(lhca)		2.08	478.70	no	UMC 98
csu847a(lhcb)		2.08	478.70	no	UMC 98
csu154a(eif5A)	C	2.08	478.70	no	UMC 98
umc1049	AC	2.08	480.70	yes	IBM2
mmp116		2.08	482.20	yes	IBM2
umc1745		2.08	485.58	no	SSR popl
mmc0191		2.07-2.08	486.45	no	SSR popl
tua5		2.08	490.00	no	UMC 98
csu749b		2.08	490.00	no	UMC 98
umc125a		2.08	490.00	no	UMC 98
mmc0143		2.07-2.08	491.43	no	SSR popl
umc2374	C	2.07-2.08	492.54	no	SSR popl
csu17b(rp)		2.08	494.53	no	UMC 98
umc122a		2.08	496.03	no	UMC 98
csu203b(eif5A)	AC	2.08	496.03	no	UMC 98
bcd808c		2.08	496.10	no	IBM2
rgpg99		2.08	496.79	no	UMC 98
mmp84		2.08	498.30	yes	IBM2
umc116b		2.08	501.31	no	UMC 98
umc1126	C	2.08	503.61	no	SSR popl
AY109583	AC	2.08	507.40	yes	IBM2
bnlg1233	AC	2.08	509.20	no	IBM2
asg23		2.08	509.60	no	UMC 98
umc137a		2.08	509.60	yes	IBM2
rgpc74c		2.08	509.60	no	UMC 98
bnl5.21b		2.08	509.60	no	UMC 98
csu175a(eif5A)		2.08	509.60	no	UMC 98
umc2005		2.08	511.48	no	SSR popl
Al668346	AC	2.08	515.80	yes	IBM2
umc1526		2.08	516.90	no	SSR popl
hda109	C	2.08	519.60	no	ChromDB
chr122	C	2.08	520.00	no	ChromDB
phi435417	C	2.08	520.50	yes	IBM2
bnl8.21b		2.07	521.71	no	BNL 96
umc1947	C	2.08	522.40	yes	IBM2
bnlg1335		2.08	522.84	no	BNL 2002
umc1604	C	2.08	523.50	yes	IBM2
csu894a		2.08	524.73	no	UMC 98
csu920a		2.08	524.73	no	UMC 98
umc1618		2.08	528.53	no	SSR popl
bnlg1316	C	2.08	529.20	no	IBM2
bnlg198		2.08	529.50	no	BNL 2002
ucsd106f		2.08	529.50	no	BNL 2002
bnl17.30b		2.08	529.50	no	BNL 2002
rgpc1122a(rpL15)		2.07	529.50	no	UMC 98
csh1b(chi)		2.07-2.08	529.50	no	BNL 96
bnlg1141		2.08	529.52	no	BNL 2002
bnlg1908a		2.08	529.56	no	BNL 2002
bnlg1721		2.08	529.57	no	BNL 2002
uaz31b		2.08	529.59	no	BNL 2002
bnlg1662		2.08	529.59	no	BNL 2002
bnlg1767		2.08	529.59	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
uaz32		2.08	529.61	no	BNL 2002
npi591		2.08	529.61	no	BNL 2002
uaz23b		2.08	529.61	no	BNL 2002
bnl6.20		2.08	529.80	yes	IBM2
hag105		2.08	532.00	no	ChromDB
csu909		2.08	535.99	no	UMC 98
npi210		2.08	536.50	yes	IBM2
dup1390		2.06	536.79	no	BNL 2002
bnlg1169		2.08	536.79	no	BNL 2002
dupssr24		2.08	536.79	no	BNL 2002
ast(amyBS2)b		2.08	536.79	no	BNL 96
mmp137		2.08	537.10	no	IBM2
chc101b	C	2.08	537.20	no	ChromDB
umc1464	C	2.08	538.49	no	SSR popl
AY109645	C	2.08	538.80	yes	IBM2
bnl5.61b		2.08	539.05	no	BNL 96
uaz241b		2.08	539.58	no	BNL 2002
asg28c		2.08	539.95	no	UMC 98
csu1097b		2.08	539.95	no	UMC 98
rgpc643c		2.08	539.95	no	UMC 98
uaz140		2.07	540.36	no	BNL 2002
npi274		2.08	541.11	no	BNL 2002
bnlg1109		2.06	541.56	no	BNL 2002
ias4a		2.08	543.32	no	BNL 2002
PCO102097	C	2.08	544.27	no	INDEL
umc2085	C	2.08	544.40	yes	IBM2
npi413a		2.08	546.59	no	BNL 2002
npi113b		2.08	548.10	no	IBM2
npi298	C	2.08	548.30	yes	IBM2
npi452		2.08	548.30	no	BNL 2002
umc1633	C	2.08	548.50	no	IBM2
npi45a		2.06-2.07	550.00	no	BNL 2002
bnl8.44b		2.08	551.09	no	UMC 98
umc1798		2.08	551.13	no	SSR popl
umc2202	C	2.08	551.13	no	SSR popl
AY109575	C	2.08	552.70	yes	IBM2
umc1992	C	2.08	556.21	no	SSR popl
mmp34		2.08	562.50	yes	IBM2
umc31b	C	2.08	564.30	no	BNL 96
mmp138		2.08	565.90	no	IBM2
psr119b		2.08	566.00	no	IBM2
npi610		2.08	567.40	yes	IBM2
bcd249h		2.08	567.61	no	BNL 2002
pur1		2.08	570.10	no	UMC 98
uaz239b		2.08	570.73	no	BNL 2002
mmc0381	C	2.08	572.40	yes	IBM2
dpg6d		2.08	573.15	no	BNL 2002
mmp188		2.08	573.30	yes	IBM2
cdo38c(ntp)	C	2.08	573.30	no	IBM2
bnlg1746	C	2.08	573.60	yes	IBM2
bnlg1606		2.08	573.95	no	BNL 2002
bcd98l		2.09	575.19	no	BNL 2002
isu115		2.08	575.20	no	IBM2
isu91b		2.08	575.40	yes	IBM2
bnlg1940	AC	2.08	577.60	yes	IBM2
psr144a		2.08	579.50	yes	IBM2
psr144c		2.08	581.10	yes	IBM2
rDNA5S		2.08	582.60	no	BNL 96
umc1516	AC	2.08	584.30	yes	IBM2
mpik(chs1b)		2.09	589.98	no	BNL 2002
umc171b(oec23)		2.09	589.98	no	UMC 98
umc49a	AC	2.09	591.50	yes	IBM2
umc1230		2.08-2.09	593.56	no	SSR popl
umc1551	C	2.09	597.97	no	SSR popl
umc1256	C	2.09	600.70	yes	IBM2
umc1252	C	2.09	600.90	yes	IBM2
AY109592	C	2.09	601.60	no	IBM2
csu304a		2.09	601.78	no	UMC 98
csu728b	C	2.09	601.78	no	UMC 98
npi47c		2.09	603.73	no	UMC 98

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
whp1		2.09	603.73	no	SSR popl
mpik26		2.09	605.83	no	BNL 2002
bnlg1520		2.09	605.83	no	BNL 2002
npi294d		2.09	605.83	no	BNL 96
csu64a(grf)		2.09	606.13	no	UMC 98
bet1		2.09	606.40	no	UMC 98
umc1525		2.09	612.29	no	SSR popl
mpik38		2.09	618.93	no	BNL 2002
uaz33a		2.09	622.05	no	BNL 96
csu622		2.09	622.94	no	UMC 98
agrc39b		2.09	622.94	no	UMC 98
csu315d		2.09	622.94	no	UMC 98
fco1b(pex)		2.09	622.94	no	UMC 98
fco1a(pex)		2.09	627.01	no	UMC 98
umc1736		2.09	627.98	no	SSR popl
bnl(tas1g)		2.10	631.06	no	BNL 2002
csu200a		2.09	634.74	no	UMC 98
mmp195e		2.09	636.80	yes	IBM2
srk1		2.09	642.88	no	UMC 98
bnlg469b	C	2.09	650.10	yes	IBM2
bnlg2042		2.02	650.17	no	BNL 2002
bcd98k		2.09	650.26	no	BNL 2002
bnlg1893	C	2.09	654.80	yes	IBM2
csu109a	C	2.09	660.38	no	SSR popl
umc36a		2.10	661.10	yes	IBM2
npi294a		2.09	661.10	no	BNL 2002
pbs10		2.09	665.81	no	BNL 2002
mha1		2.09	665.81	no	BNL 96
ucsd61c		2.10	669.92	no	BNL 2002
csu611a(grp)		2.09	669.98	no	UMC 98
csu665a(adt)		2.09	674.42	no	UMC 98
AY110389	C	2.10	681.80	yes	IBM2
csu810a		2.10	688.69	no	UMC 98
umc1704		2.08-2.10	689.93	no	SSR popl
umc2184	C	2.10	692.40	yes	IBM2
mmp183		2.10	694.60	yes	IBM2
php20581b(tb)		2.10	695.99	no	SSR popl
bnl17.14		2.10	702.50	yes	IBM2
csu251b		2.10	702.50	no	UMC 98
npi400b		2.10	702.50	no	BNL 2002
lim104		2.10	706.50	yes	IBM2
nfa103b		2.10	708.10	yes	IBM2
chr106b		2.10	708.10	no	ChromDB
umc2Lelo		2.10	708.33	no	UMC 98
ufg55		2.10	711.00	yes	IBM2
bnl17.19b		2.10	711.07	no	BNL 96
phi101049	AC	2.10	712.10	yes	IBM2
AY109586	AC	2.10	713.10	no	IBM2
cdo938c		2.10	716.30	no	IBM1
umc1696		2.10	716.30	yes	IBM2
knox4		2.10	716.30	no	BNL 2002
bcd98n		2.10	718.24	no	BNL 2002
rgpc12b		2.10	721.36	no	UMC 98
ucsd113b		2.10	724.27	no	BNL 2002
bnl(tas1p)		2.10	724.27	no	BNL 2002
ucsd106a		2.10	724.27	no	BNL 96
AY111236	AC	2.10	725.30	yes	IBM2
umc2214		2.10	728.36	no	SSR popl
ucsd113c		2.10	768.59	no	BNL 96
uaz109		3.00	-21.30	no	BNL 96
bnl(tas4l)		3.00	-1.20	no	BNL 96
umc32a	C	3.01	-1.10	no	SSR popl
umc2118	AC	3.00	0.00	yes	IBM2
g2	C	3.00	2.00	yes	IBM2
umc1931	AC	3.00	5.60	yes	IBM2
umc1746	C	3.00	7.10	no	IBM2
phi453121	AC	3.00	7.50	yes	IBM2
umc2255	C	3.01	9.50	yes	IBM2
phi404206	C	3.01	11.00	yes	IBM2
umc1780	C	3.01	11.20	yes	IBM2
bnl8.15	C	3.01	11.40	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc3Stelo		3.00-3.01	14.68	no	UMC 98
umc1394	C	3.01	21.80	yes	IBM2
umc2256	C	3.01	23.40	yes	IBM2
umc1970	C	3.01	28.20	yes	IBM2
umc2071	C	3.01	29.20	yes	IBM2
asg64		3.01	29.60	yes	IBM2
umc2257	C	3.01-3.02	30.50	no	IBM2
mmp158a		3.01	31.80	yes	IBM2
umc1892	C	3.01	35.50	yes	IBM2
php20905		3.01	37.20	yes	IBM2
phi104127	C	3.01	38.00	yes	IBM2
umc2049	C	3.01	38.70	yes	IBM2
mmp38		3.01	42.60	yes	IBM2
e8		3.01	44.22	no	UMC 98
csu628		3.01	44.22	no	UMC 98
umc249		3.01	44.22	no	UMC 98
umc1793		3.00	45.17	no	SSR popl
umc2376	C	3.01	45.37	no	SSR popl
umc2377	C	3.01	47.91	no	SSR popl
umc121		3.01	54.30	no	IBM2
asg30c		3.01	58.00	yes	IBM2
csu32a	C	3.02	60.00	yes	IBM2
bnl44		3.01	61.47	no	BNL 2002
csu1062		3.02	64.85	no	UMC 98
umc1458	AC	3.02	67.20	yes	IBM2
mpik24b(zmm2)		3.02	74.10	no	UMC 98
zem1		3.02	75.04	no	BNL 2002
zpia		3.02	75.04	no	BNL 2002
bnlg1144	AC	3.02	77.00	yes	IBM2
umc1886	AC	3.02	78.50	yes	IBM2
bnlg1523		3.03	81.50	no	BNL 2002
uaz210(hsp18)		3.03	82.86	no	BNL 2002
csu230		3.02	83.56	no	UMC 98
umc1814		3.02	86.84	no	SSR popl
hsp18f		3.03	91.22	no	BNL 2002
AY109549	AC	3.02	95.40	yes	IBM2
cko1	AC	3.02	97.60	yes	IBM2
csu75a		3.02	98.91	no	UMC 98
asg16a	C	3.02	100.80	no	UMC 98
me3	AC	3.02	101.02	no	UMC 98
csu199b		3.02	101.30	no	UMC 98
php20042a		3.02	101.30	yes	IBM2
bnlg1647	AC	3.02	103.30	yes	IBM2
csu324b(cts)		3.02	107.90	yes	IBM2
csu728c	C	3.03	109.00	no	UMC 98
asg24a(gts)	AC	3.03	109.00	yes	IBM2
csu56b(ohp)	C	3.03	109.00	no	UMC 98
zag4		3.02	115.93	no	BNL 96
umc2369	C	3.03	117.03	no	SSR popl
bnlg1325		3.03	117.76	no	BNL 2002
lim66		3.03	124.80	yes	IBM2
umc2258	AC	3.02-3.03	127.80	yes	IBM2
bnlg1447	C	3.03	129.40	yes	IBM2
mus2		3.02-3.03	130.73	no	BNL 2002
umc2259	AC	3.02-3.03	131.70	no	IBM2
mmp79		3.03	139.30	yes	IBM2
mmp186		3.03	145.30	yes	IBM2
asg48	AC	3.04	152.70	yes	IBM2
umc2024		3.03-3.04	152.70	no	SSR popl
csu242		3.04	153.40	no	UMC 98
bnl8.35a		3.04	153.40	yes	IBM2
bcd98j		3.04	153.64	no	BNL 2002
chs566		3.04	153.70	no	BNL 2002
npi249a		3.04	153.86	no	BNL 2002
isu91a		3.04	153.97	no	BNL 2002
npi276a		3.04	154.00	yes	IBM2
uaz164d		3.03-3.04	154.06	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
csu(pri2)		3.04	154.42	no	BNL 2002
uaz159b		3.04	157.30	no	IBM2
umc1030		3.04	159.00	yes	IBM2
umc59e	AC	3.04	159.00	yes	IBM2
me1		3.02-3.03	160.45	no	BNL 96
std1d(his2B1)		3.04	162.05	no	UMC 98
phi234966		3.04	163.50	no	IBM1
umc1772	AC	3.04	163.50	no	IBM2
npi446		3.04	163.80	yes	IBM2
phi243966	C	3.02	163.80	no	IBM2
umc1425	C	3.04	165.00	yes	IBM2
umc2000	AC	3.04	166.90	yes	IBM2
umc1729		3.04	167.36	no	SSR popl
umc1608	AC	3.04	168.00	yes	IBM2
umc154		3.04	172.87	no	UMC 98
csu949a		3.04	172.87	no	UMC 98
bnlg2136		3.04	174.67	no	BNL 2002
umc2158	AC	3.04	176.60	yes	IBM2
umc1495	AC	3.04	177.40	yes	IBM2
nfc104c		3.04	179.44	no	ChromDB
umc1392	AC	3.04	181.10	yes	IBM2
rgpc601b		3.04	181.52	no	UMC 98
umc2033	AC	3.04	181.70	yes	IBM2
haf101	C	3.04	183.65	no	ChromDB
rgpc131a	AC	3.04	184.77	no	UMC 98
psr754b		3.04	186.00	yes	IBM2
umc1742	AC	3.04	189.00	yes	IBM2
umc2117	C	3.04	190.20	yes	IBM2
bnlg1019a	AC	3.04	190.60	no	IBM2
umc1717	AC	3.04	190.80	no	IBM2
bnlg1113	AC	3.04	190.80	yes	IBM2
bnlg1452	AC	3.04	190.80	yes	IBM2
umc1655	AC	3.04	191.10	no	IBM2
tpi4	AC	3.04	192.34	no	UMC 98
ucsd201		3.04	192.35	no	BNL 2002
umc1025		3.04	192.54	no	SSR popl
bnlg1638		3.04	193.10	yes	IBM2
pbs14e		3.04	193.10	no	BNL 2002
uaz34a		3.04	193.10	no	BNL 2002
umc42b		3.04	193.10	no	BNL 2002
dup183b		3.04	193.10	no	BNL 2002
bnlg1628		3.04	193.10	no	BNL 2002
bnlg2047		3.04	193.10	no	BNL 2002
isu1719h		3.04	193.10	no	BNL 2002
mpik32e(zag2)		3.04	193.10	no	BNL 2002
uaz249b(ubf9)		3.04	193.10	no	BNL 2002
npi(tpi)		3.04	193.33	no	BNL 2002
isu2117i		3.04	193.71	no	BNL 2002
rz543a	C	3.04	193.96	no	UMC 98
pbs14a		3.04	194.27	no	BNL 2002
bnlg1085b		3.04	195.01	no	BNL 2002
bnlg1957		3.05	195.13	no	BNL 2002
bet1		3.04	195.22	no	BNL 2002
dup104		3.04	195.22	no	BNL 2002
uaz34b		3.04	195.22	no	BNL 2002
dup287a		3.04	195.22	no	BNL 2002
dup53		3.04	195.63	no	BNL 2002
isu2191c		3.04	195.63	no	BNL 2002
kfp1a		3.04	196.12	no	UMC 98
umc92a		3.04	196.12	no	UMC 98
asg46a	C	3.04	196.12	no	UMC 98
ttu1(hsp18)		3.04	196.12	no	UMC 98
mmp144		3.04	196.90	yes	IBM2
npi398a		3.04	197.54	no	BNL 2002
isu1719b		3.04	197.68	no	BNL 2002
ucla(obuf6)		3.04	197.87	no	BNL 2002
tis903.6a		3.04	198.08	no	BNL 2002
umc1351	C	3.04	199.97	no	SSR popl
umc1965		3.04	200.65	no	SSR popl
e4		3.04	200.71	no	UMC 98
umc1721		3.04	202.67	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
mmp36		3.04	203.40	yes	IBM2
mmc0132	AC	3.04	208.60	yes	IBM2
cdo244d(crp)		3.04	208.60	yes	IBM2
umc2261	AC	3.04	210.40	yes	IBM2
mmc0312	AC	3.04	212.70	yes	IBM2
umc1908	AC	3.04	213.60	yes	IBM2
npi247		3.04	213.80	yes	IBM2
npi114b		3.04	213.80	no	BNL 2002
dup162		3.04	213.96	no	BNL 2002
isu76a		3.04	214.16	no	BNL 2002
php20509		3.04	214.70	no	IBM2
php20576		3.04	214.70	no	IBM2
umc2262	AC	3.04	214.70	no	IBM2
ens1004		3.04	214.89	no	BNL 2002
umc161b	C	3.04	214.89	no	BNL 2002
ufg44		3.04	214.90	no	IBM2
bnl43		3.04	215.26	no	BNL 2002
isu157		3.03-3.04	215.26	no	BNL 2002
isu148		3.04	215.44	no	BNL 2002
mmp69		3.04	215.60	yes	IBM2
uaz255		3.04	215.60	no	BNL 2002
ici273c		3.04	215.82	no	BNL 2002
AY109870	C	3.04	219.50	yes	IBM2
PCO107756	C	3.04	220.24	no	INDEL
csu621		3.04	223.64	no	UMC 98
rz382a		3.04	224.10	yes	IBM2
csu2b		3.04	224.46	no	UMC 98
bnlg1816		3.04	226.90	yes	IBM2
umc2263	AC	3.04	227.80	yes	IBM2
umc1504	AC	3.04	228.20	no	IBM2
umc1347	AC	3.04	228.34	no	SSR popl
mmp29		3.04	228.50	no	IBM2
rz244b(dia)		3.04	230.10	yes	IBM2
chr110a		3.04	230.70	no	ChromDB
php10016c		3.04	231.50	yes	IBM2
umc50a		3.04	232.16	no	BNL 96
umc1900		3.04	232.40	no	IBM2
umc1223		3.04	234.40	yes	IBM2
csu29b	C	3.04	236.69	no	UMC 98
PCO068796	C	3.04	237.40	no	INDEL
AY110403	C	3.04	238.10	no	IBM2
csu1070		3.04	241.55	no	UMC 98
csu10b(cycl)		3.04	241.55	no	UMC 98
PCO141323	C	3.04	242.64	no	INDEL
AY110297	C	3.04	244.70	yes	IBM2
tha1		3.04	246.96	no	UMC 98
rps25		3.04	246.96	no	UMC 98
umc97		3.04	246.96	no	UMC 98
csu795		3.04	246.96	no	UMC 98
umc175		3.04	246.96	no	UMC 98
bnl5.33e		3.04	246.96	no	UMC 98
umc1968	C	3.04	250.40	no	IBM2
csu212b		3.04	254.53	no	UMC 98
AY110151	AC	3.04	254.60	yes	IBM2
umc1920		3.04	258.40	yes	IBM2
umc10a	C	3.04	259.40	yes	IBM2
chr126b		3.04	259.40	no	ChromDB
php20558a		3.04	260.10	yes	IBM2
mbd105		3.04	260.10	no	ChromDB
php20511		3.04	260.30	no	IBM2
umc2264	AC	3.04	261.10	yes	IBM2
rz995b(fbp)		3.04	261.22	no	UMC 98
npi220b	C	3.04	261.22	no	BNL 96
mmp9		3.04	262.90	yes	IBM2
csu851b		3.04	264.81	no	UMC 98
csu408(grp)		3.04	264.81	no	UMC 98
umc1683	C	3.04	266.00	no	IBM2
bnl13.05b		3.04	266.85	no	BNL 96
csu404b		3.04	266.97	no	UMC 98
umc1449	AC	3.04	269.40	yes	IBM2
umc1835		3.04	270.88	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnlg602	C	3.04	270.88	no	SSR popl
csu290		3.04	275.62	no	UMC 98
cdo1160b(kri)	C	3.04	275.62	no	UMC 98
hac101a		3.04	276.60	yes	IBM2
lg3		3.04	276.61	no	BNL 2002
uaz35		3.04	276.77	no	BNL 2002
umc1527	AC	3.04	279.30	yes	IBM2
umc1773	C	3.04	280.40	yes	IBM2
psr628		3.04	280.60	yes	IBM2
ici286b		3.04	283.72	no	BNL 96
jpsb527a		3.04	283.90	yes	IBM2
umc1386	AC	3.04	284.39	no	SSR popl
umc2002	AC	3.04	290.60	yes	IBM2
bnlg1399		3.05	291.50	no	BNL 2002
mpik35d		3.04	292.06	no	BNL 2002
cdo459		3.04	294.50	no	BNL 2002
cdo344a(rga)		3.04	294.50	yes	IBM2
bnlg1022b		3.04	296.00	no	BNL 2002
umc102	C	3.05	296.10	yes	IBM2
mpik35e		3.04	296.63	no	BNL 2002
bnlg1246b		3.05	297.57	no	BNL 2002
bnlg1456		3.05	298.57	no	BNL 2002
uaz19a		3.04	298.62	no	BNL 2002
bnl31b		3.05	298.64	no	BNL 2002
nabr1		3.04	298.89	no	BNL 2002
umc1174	AC	3.05	299.20	yes	IBM2
umc1600	AC	3.05	301.00	yes	IBM2
umc1300		3.05	301.44	no	SSR popl
tda30		3.05	301.78	no	UMC 98
rgpc529		3.05	301.78	no	UMC 98
mmp80		3.05	303.70	yes	IBM2
rgpc6(rpS9)	C	3.05	304.80	no	UMC 98
uaz288a(ppi)		3.05	305.30	yes	IBM2
umc1693	AC	3.05	305.80	no	IBM2
umc1907		3.05	306.10	no	IBM2
bnlg1601	AC	3.05	306.10	no	IBM2
umc1874		3.05	306.10	no	SSR popl
umc1616		3.05	306.71	no	SSR popl
phys2	C	3.05	307.00	yes	IBM2
rz261b(sad)		3.05	307.39	no	UMC 98
npi612		3.05	307.69	no	BNL 2002
npi609		3.05	307.69	no	BNL 96
cdo250		3.05	308.00	no	BNL 96
rz296b		3.05	309.50	yes	IBM2
tda64		3.05	310.84	no	UMC 98
umc1750		3.05	310.97	no	SSR popl
umc1102	AC	3.05	312.80	yes	IBM2
chr109b	C	3.05	313.10	no	ChromDB
bnlg1035	AC	3.05	313.40	yes	IBM2
AY110352	AC	3.05	315.40	yes	IBM2
csu229b(oc)		3.05	316.88	no	UMC 98
mmc0022	AC	3.05	318.20	yes	IBM2
umc2020	AC	3.05	318.20	yes	IBM2
php20508		3.05	318.40	no	IBM2
cyp7		3.05	319.04	no	UMC 98
umc1167	AC	3.05	319.20	yes	IBM2
atp1	C	3.05	319.47	no	UMC 98
bnl8.08g		3.05	319.56	no	BNL 2002
rz390c(cyb5)		3.05	319.80	no	IBM2
pgd2		3.05	323.35	no	UMC 98
csu561a		3.05	323.35	no	UMC 98
npi611b		3.05	323.35	no	UMC 98
umc252a		3.05	323.35	no	UMC 98
bnl6.06a		3.05	323.35	no	UMC 98
csu234a(gbp)		3.05	323.35	no	UMC 98
umc1501		3.05	325.40	yes	IBM2
AY112215	AC	3.05	326.20	no	IBM2
psr119a		3.05	327.90	yes	IBM2
cdo105		3.05	330.60	yes	IBM2
AY111507	AC	3.05	331.30	yes	IBM2
bnl(tas1)		3.05	332.94	no	BNL 2002
uaz37		3.06	333.04	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
isu68		3.04	333.30	no	BNL 2002
bnlg1904		3.04	334.22	no	BNL 2002
AY111541	AC	3.05	334.60	yes	IBM2
isu52		3.05	336.49	no	BNL 2002
isu118b		3.04	336.75	no	BNL 2002
umc1307		3.05	339.61	no	SSR popl
vp1		3.05	340.35	no	BNL 96
asg52b		3.05	341.04	no	UMC 98
asg67b		3.05	341.04	no	UMC 98
umc1954	AC	3.05	341.05	no	SSR popl
ldp1	C	3.05	344.20	no	UMC 98
umc26a		3.05	344.20	yes	IBM2
umc268		3.05	344.20	no	UMC 98
uiu8(geb)		3.05	344.20	no	UMC 98
csu44(gst)		3.05	344.20	no	UMC 98
csu961(fnr)		3.05	344.20	no	UMC 98
umc18a(psaN)		3.05	344.20	no	UMC 98
csu237b(psaN)		3.05	344.20	no	UMC 98
csu439(trm)	AC	3.05	344.20	no	UMC 98
rz141a(emp70)		3.05	344.20	no	UMC 98
bnlg420		3.05	345.99	no	BNL 2002
klp3		3.05	346.80	no	UMC 98
myb2	C	3.05	346.80	no	ChromDB
umc1839		3.05	346.92	no	SSR popl
csu382c(cld)	C	3.05	349.67	no	UMC 98
si618046E03	C	3.05	352.15	no	INDEL
umc2265	AC	3.05-3.06	354.00	no	IBM2
asg1b		3.05	358.30	no	UMC 98
sps2	AC	3.05	358.30	yes	IBM2
umn41		3.05	358.30	no	UMC 98
csu362		3.05	358.30	no	UMC 98
mwg645c		3.05	358.30	no	BNL 2002
csu636		3.05	361.10	yes	IBM2
rz14	C	3.05	362.51	no	UMC 98
uaz189(rpL5)		3.05	365.94	no	BNL 2002
csu268		3.05	366.03	no	UMC 98
umc1973	AC	3.05	371.40	yes	IBM2
ici98		3.06	374.87	no	BNL 96
umn857a		3.05	375.17	no	UMC 98
AY106230	C	3.05	377.90	yes	IBM2
AY111296	AC	3.05	384.90	yes	IBM2
rgpc385b(rpL5)		3.05	386.86	no	UMC 98
AI770873	AC	3.05	388.10	yes	IBM2
mmp184		3.05	389.10	no	IBM2
npi296		3.05	389.70	yes	IBM2
umc1539	AC	3.05-3.06	390.30	yes	IBM2
bnl5.37b		3.05-3.06	390.80	yes	IBM2
bnl5.37a		3.06	391.40	no	IBM2
npi108a		3.05-3.06	391.40	no	UMC 98
umc1400	AC	3.05-3.06	391.40	no	SSR popl
uaz260a(rpL5)		3.05-3.06	391.40	no	UMC 98
umc1311	C	3.06	394.80	yes	IBM2
umc1593b		3.06	394.80	no	SSR popl
umc1730	AC	3.06	398.40	yes	IBM2
ucsd72d		3.06	400.17	no	BNL 2002
uaz8b(spr1)		3.06	400.89	no	BNL 2002
umc1027	AC	3.06	401.20	yes	IBM2
asg61a		3.06	401.80	no	UMC 98
bnl5.14		3.06	401.80	no	UMC 98
bnl10.24a		3.06	401.80	yes	IBM2
lim486		3.06	405.30	yes	IBM2
rz538b		3.06	411.10	yes	IBM2
csu1029		3.06	411.10	no	UMC 98
npi268b	C	3.06	411.10	no	UMC 98
umc1266	AC	3.06	411.60	no	IBM2
umc1876		3.06	414.69	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
asg39		3.06	416.10	yes	IBM2
asg15		3.06	416.10	no	UMC 98
asg34b(msd)	C	3.06	416.10	no	UMC 98
umc165a		3.06	423.29	no	UMC 98
bnl8.01		3.06	423.29	no	BNL 96
rz630d(sat)		3.06	423.54	no	BNL 2002
BE639846		3.06	423.60	yes	IBM2
bnl47g		3.04	425.35	no	BNL 2002
PCO089398	C	3.06	428.85	no	INDEL
umc2266	AC	3.06	434.30	yes	IBM2
umc164b		3.06	435.65	no	BNL 96
isu166b		3.04	436.83	no	BNL 2002
bnlg1047a		3.06	438.02	no	BNL 2002
bnlg1063a	C	3.06	441.26	no	BNL 2002
bnlg1350a		3.08	443.99	no	BNL 2002
phi102228	AC	3.06	445.00	yes	IBM2
ksu1a		3.06	447.70	no	UMC 98
csu776b		3.06	447.70	no	UMC 98
csu38a(taf)		3.06	447.70	no	UMC 98
lg2		3.06	449.04	no	BNL 2002
AY110055		3.06	450.30	yes	IBM2
bnlg1449		3.06	450.38	no	BNL 2002
npi328b		3.06	450.59	no	BNL 96
mmp27		3.06	451.40	no	IBM2
mmp88		3.06	451.40	no	IBM2
jpsb79		3.06	451.50	yes	IBM2
umc60	AC	3.06	452.70	yes	IBM2
zag2		3.05	453.36	no	BNL 2002
mpik2		3.05	453.36	no	BNL 2002
uaz36		3.05	453.36	no	BNL 2002
abp1	AC	3.05	453.36	no	BNL 2002
bnlg1505		3.05	453.36	no	BNL 2002
gst4		3.05	453.41	no	BNL 2002
isu131		3.04	454.16	no	BNL 2002
bnlg1117		3.05	454.24	no	BNL 2002
mpik30a		3.05	454.31	no	BNL 2002
bnlg2241		3.06	454.31	no	BNL 2002
umc1951	AC	3.06	456.70	no	SSR popl
psr754a		3.06	459.90	yes	IBM2
umc2268	AC	3.06	461.10	yes	IBM2
umc2408		3.06	467.36	no	SSR popl
umc1644		3.06	473.10	yes	IBM2
bnlg2243		3.08	474.75	no	BNL 2002
mmp5		3.06	477.50	yes	IBM2
umc1674		3.06	479.31	no	SSR popl
csu1183		3.06	480.10	yes	IBM2
bnlg1951	AC	3.06	481.60	yes	IBM2
rz444b	C	3.06	481.72	no	UMC 98
csu351	AC	3.06	481.72	no	UMC 98
cdo251a		3.06	481.92	no	BNL 2002
mpik39b(myb)		3.04	482.06	no	BNL 2002
umc82c		3.06	482.30	yes	IBM2
umc2269	AC	3.06	482.30	no	IBM2
pho2		3.04	482.67	no	BNL 2002
bnlg1798		3.06	482.73	no	BNL 2002
csu215a(grp)		3.06	482.73	no	UMC 98
ufg42	C	3.06	486.20	yes	IBM2
tub6		3.06	488.00	no	UMC 98
csu264		3.06	488.00	no	UMC 98
csu191	AC	3.06	488.00	yes	IBM2
umc252c		3.06	488.00	no	UMC 98
csu223b(psei)		3.06	488.00	no	UMC 98
sdg113		3.06	489.85	no	ChromDB
bnlg1160	AC	3.06	491.40	yes	IBM2
umc2271	AC	3.06	494.00	yes	IBM2
umc2270	AC	3.06-3.07	494.00	yes	IBM2
csu96a(psei)		3.06	495.36	no	UMC 98
umc1985		3.06	495.69	no	SSR popl
csu180		3.06	496.18	no	UMC 98
CL13054_1	C	3.06	499.82	no	INDEL
lim424		3.06	503.00	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
lim269		3.06	504.70	no	IBM2
umc2381	C	3.06-3.07	505.18	no	SSR popl
php20026		3.07	505.19	no	BNL 96
ucla(obuf3A)		3.07	506.11	no	BNL 2002
bnlg1931		3.07	506.96	no	BNL 2002
AY111125	AC	3.06	507.20	yes	IBM2
umc39a		3.06	510.07	no	UMC 98
php15033		3.06	511.10	yes	IBM2
bnlg197	AC	3.06	511.50	yes	IBM2
chs13d		3.04	511.50	no	BNL 2002
bnlg1796		3.06	511.51	no	BNL 2002
bnl3.18		3.07	511.71	no	UMC 98
bnlg1779		3.07	512.00	no	BNL 2002
csu690		3.06	512.53	no	UMC 98
AI770795	AC	3.06	512.70	yes	IBM2
uaz38a		3.07	515.53	no	BNL 2002
asg7b		3.06	517.00	yes	IBM2
dupssr17	AC	3.06-3.07	517.95	no	SSR popl
bnl6.16a		3.07	520.70	yes	IBM2
odo241a		3.06-3.07	520.70	no	UMC 98
bcd738b(pgk)	C	3.06-3.07	520.70	no	UMC 98
umc1949		3.06-3.07	527.06	no	SSR popl
umc3b		3.06-3.07	529.40	no	IBM2
si618016E09	C	3.07	529.90	no	INDEL
bnl15.20		3.06-3.07	535.82	no	BNL 96
umc2050	AC	3.07	538.20	yes	IBM2
ici273a		3.07	538.47	no	BNL 2002
si605077F08	C	3.07	539.74	no	INDEL
umc1135	AC	3.07	540.20	yes	IBM2
umc1767		3.07	542.00	yes	IBM2
umc2272	C	3.07	544.20	yes	IBM2
umc1528	AC	3.07	544.40	yes	IBM2
PCO142509	C	3.07	544.56	no	INDEL
umc1399	C	3.07	544.60	yes	IBM2
bnlg1605	AC	3.07	544.60	yes	IBM2
umc1690	AC	3.07	544.60	no	SSR popl
bnl54		3.04	544.81	no	BNL 2002
ufg21		3.07	544.97	no	BNL 2002
npi212b		3.07	545.00	yes	IBM2
bnl45c		3.04	545.09	no	BNL 2002
hox3		3.07	547.05	no	UMC 98
umc1148		3.07	552.14	no	SSR popl
umc1659		3.07	552.14	no	SSR popl
csu567(ces)		3.07	552.67	no	UMC 98
odo1395d		3.07	554.22	no	UMC 98
csu680b	C	3.07	554.22	no	UMC 98
csu706	AC	3.07	554.22	no	UMC 98
asg4		3.07	554.39	no	UMC 98
bcd805		3.07	554.39	no	UMC 98
bnl1.297a		3.07	554.39	no	UMC 98
bnl1.326b		3.07	554.39	no	UMC 98
bnl5.33b		3.07	554.39	no	BNL 96
AY104511	AC	3.07	562.10	yes	IBM2
umc1286	C	3.07	566.23	no	SSR popl
AY109828		3.07	566.50	yes	IBM2
asg10		3.07	567.40	no	IBM2
gps4		3.04	567.56	no	BNL 2002
umc1489	AC	3.07	567.60	yes	IBM2
umc2273	AC	3.07	568.00	no	IBM2
umc1404	C	3.07	568.30	yes	IBM2
csu1130		3.07	571.61	no	UMC 98
rgpc643b		3.07	571.61	no	UMC 98
php20521		3.07	572.70	yes	IBM2
sdg117a	C	3.07	573.96	no	ChromDB
umc15b		3.08	574.65	no	BNL 96

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
hon108	C	3.07	576.47	no	ChromDB
umc1825	C	3.07	579.50	yes	IBM2
dhn6		3.08	585.50	no	BNL 2002
umc16a		3.08	585.50	no	UMC 98
umc17a	AC	3.08	585.50	yes	IBM2
umc228b		3.08	585.50	no	UMC 98
umc103b		3.08	585.50	no	BNL 2002
csu189(thr)		3.08	585.50	no	UMC 98
rny(atpb)		3.08	585.50	no	BNL 2002
bcd828a(atpb)		3.08	585.50	no	BNL 2002
uaz243a(atpb)		3.08	585.50	no	BNL 2002
csu240		3.08	589.16	no	UMC 98
umc231		3.08	591.16	no	UMC 98
bcd1127a		3.08	594.72	no	BNL 2002
csu772a		3.08	596.49	no	UMC 98
npi432	C	3.08	596.49	no	UMC 98
umc226a		3.08	596.49	no	UMC 98
uaz176b		3.08	596.49	no	BNL 2002
cdo345b	C	3.08	596.53	no	BNL 2002
bnl17.27		3.08	597.38	no	BNL 2002
dgc13		3.08	597.51	no	BNL 2002
AY105849	C	3.08	597.60	yes	IBM2
npi201a		3.08	597.64	no	BNL 2002
rz527a		3.08	598.16	no	BNL 2002
uaz251e(rpS11)		3.08	599.30	no	BNL 96
bnl24b		3.08	599.38	no	BNL 2002
csu1117a		3.08	599.82	no	UMC 98
bnlg1861b		3.08	604.12	no	BNL 2002
umc1844		3.08	605.81	no	SSR popl
umc2274		3.07-3.08	608.60	no	IBM2
umc1140	C	3.08	609.20	yes	IBM2
umc2275	C	3.07-3.08	610.20	yes	IBM2
mmc0251		3.08	611.40	yes	IBM2
cdo118		3.08	611.80	no	IBM2
npi91a		3.08	612.04	no	BNL 2002
npi257a		3.08	612.04	no	BNL 2002
cdo1160c(kri)	C	3.07	612.22	no	BNL 2002
uaz18c		3.08	612.27	no	BNL 2002
umc1915	AC	3.08	617.50	yes	IBM2
bnlg1108	AC	3.08	618.60	yes	IBM2
umc2081		3.08	627.10	yes	IBM2
umc1521		3.08	627.13	no	SSR popl
csu744	C	3.08	629.36	no	UMC 98
csu456(uce)		3.08	629.36	no	UMC 98
sdg115	C	3.08	630.00	no	ChromDB
mdh3		3.08	632.40	no	UMC 98
php10080		3.08	632.40	yes	IBM2
isu158		3.08-3.08	632.40	no	BNL 2002
umc1320	AC	3.08	633.80	yes	IBM2
umc1273	AC	3.08	634.80	yes	IBM2
AY109934	AC	3.08	638.30	yes	IBM2
si946021A07	C	3.08-3.09	640.58	no	INDEL
umc2276	AC	3.08-3.09	652.40	yes	IBM2
uaz164c		3.08	681.62	no	BNL 2002
umc2174		3.08	683.60	yes	IBM2
csu703		3.08	688.71	no	UMC 98
AY110540		3.08	691.20	yes	IBM2
a1		3.09	697.20	no	UMC 98
umc63a	C	3.09	697.20	yes	IBM2
csu869(cah)		3.09	697.20	no	UMC 98
csu125a(cah)		3.09	697.20	no	UMC 98
csu397(cah)	C	3.09	697.20	no	UMC 98
umc184d(glb)		3.09	697.20	no	UMC 98
bnl47f		3.08-3.09	697.20	no	BNL 2002
csu303		3.09	699.20	yes	IBM2
med68		3.09	699.87	no	UMC 98

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnl1.67		3.09	699.87	no	UMC 98
csu845		3.09	702.20	yes	IBM2
sh2	AC	3.09	702.20	no	UMC 98
bnl1.123		3.09	702.20	no	BNL 2002
bnl12.30b		3.09	702.20	no	BNL 2002
pge25c		3.09	703.99	no	BNL 2002
bcd134b		3.09	712.91	no	UMC 98
cdo920b(egl)		3.09	712.91	no	UMC 98
CL29988_-2	C	3.09	713.08	no	INDEL
jpsb107c		3.09	728.10	yes	IBM2
cdo962b		3.09	728.49	no	BNL 96
csu305b		3.09	728.70	no	UMC 98
dupssr33		3.09	731.26	no	BNL 2002
jpsb41		3.09	732.50	yes	IBM2
jpsb443		3.09	732.50	yes	IBM2
sho38		3.09	732.60	no	IBM2
jpsb106		3.09	732.60	no	IBM2
sho89		3.09	732.70	yes	IBM2
umc2152	AC	3.09	738.70	yes	IBM2
lim182		3.09	743.00	yes	IBM2
csu768		3.09	745.05	no	UMC 98
etm3		3.09	746.54	no	BNL 2002
umc2008	AC	3.09	747.00	no	IBM2
umc2277	AC	3.08-3.09	747.50	no	IBM2
umc1813	AC	3.09	748.50	yes	IBM2
csu780a		3.09	750.69	no	UMC 98
csu919a		3.09	750.69	no	UMC 98
cdo455b	C	3.09	750.69	no	UMC 98
dup214		3.09	750.69	no	BNL 2002
rgps10558b		3.09	750.69	no	UMC 98
ici94		3.09	751.67	no	BNL 2002
bnlg1536		3.09	752.10	yes	IBM2
bnlg1182		3.09	752.10	no	BNL 2002
isu102c		3.09	753.02	no	BNL 2002
pic6a		3.09	754.15	no	BNL 2002
lhcb1		3.09	755.76	no	UMC 98
csu1086		3.09	755.76	no	UMC 98
csu1142		3.09	755.76	no	UMC 98
bnlg1754		3.09	757.00	yes	IBM2
ias21		3.09	757.10	no	BNL 2002
bnlg1257		3.09	757.18	no	BNL 2002
uiu1a(pog)		3.09	757.31	no	BNL 2002
uaz110		3.09	757.34	no	BNL 2002
bnlg2118		3.09	757.41	no	BNL 2002
uaz114		3.10	757.48	no	BNL 2002
uaz133		3.09	757.54	no	BNL 2002
dup216		3.09	757.71	no	BNL 2002
uaz213b		3.09	757.98	no	BNL 2002
csu58a	C	3.09	758.02	no	UMC 98
ias22a		3.09	758.02	no	BNL 2002
uaz117a		3.10	758.02	no	BNL 2002
csu21b(ago)		3.09	758.02	no	UMC 98
csu899a(ant)		3.09	758.02	no	UMC 98
npi457		3.09	758.20	yes	IBM2
umc1578	AC	3.09	758.41	no	SSR popl
npi425a	AC	3.09	759.90	yes	IBM2
bnlg1496	AC	3.09	760.90	no	IBM2
umc96		3.09	764.78	no	UMC 98
csu289		3.09	764.78	no	UMC 98
umc187		3.09	764.78	no	UMC 98
php20726		3.09	764.78	no	UMC 98
isu57a		3.09	766.61	no	BNL 2002
AY110567	AC	3.09	769.00	yes	IBM2
mmc0001	C	3.09	772.43	no	SSR popl
isu1410h		3.09	773.24	no	BNL 2002
mwg645j		3.09	774.37	no	BNL 2002
uaz39		3.09	774.81	no	BNL 2002
bnl7.26		3.09	780.57	no	UMC 98
umc1361	C	3.09	786.39	no	SSR popl
pbs13f		3.10	790.20	no	BNL 2002
npi420		3.09	791.60	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
csu36c(rpL19)		3.09	791.99	no	BNL 2002
bnlg1098		3.10	792.16	no	BNL 2002
umc2a	C	3.10	801.50	no	BNL 96
umc1052	C	3.09	806.39	no	SSR popl
umc1641	AC	3.09	806.90	yes	IBM2
nph1	AC	3.09	807.64	no	SSR popl
lim444		3.09	817.00	yes	IBM2
lim96		3.09	823.50	yes	IBM2
lim82		3.09	824.70	yes	IBM2
umc1639		3.09	825.24	no	SSR popl
csu320b		3.09	827.33	no	IBM1
plt2	AC	3.09	827.40	no	IBM2
mmp191		3.09	828.90	no	IBM1
mmp193		3.09	828.90	no	IBM1
umc1594	AC	3.09	828.90	yes	IBM2
umc1136	AC	3.10	830.70	no	SSR popl
cyp1	AC	3.10	831.31	no	SSR popl
umc2048	AC	3.10	858.62	no	SSR popl
tda117		3.10	870.84	no	UMC 98
csu728a	AC	3.10	870.84	no	UMC 98
csu1061a		3.10	870.84	no	SSR popl
chr126a		3.09	913.40	no	ChromDB
agrr43b		3.10	914.76	no	UMC 98
uaz198a(rpL10)		3.10	914.76	no	UMC 98
bnlg372		4.00	-149.20	no	BNL 96
umc1232		4.00	-116.50	no	SSR popl
agrr115	C	4.01	-105.40	no	INDEL
bnlg1318		4.01	-50.03	no	BNL 2002
bnlg1370	C	4.00	-43.98	no	BNL 2002
bnlg1241		4.01	-36.04	no	BNL 2002
npi294j		4.01	-19.74	no	UMC 98
cyp1710		4.01	-11.63	no	UMC 98
cyp2707		4.01	-11.63	no	UMC 98
csu618(P450)		4.01	-11.63	no	UMC 98
cyp3	C	4.01	-6.83	no	SSR popl
umc1276	C	4.01	-6.83	no	SSR popl
AY109715	AC	4.00	-4.10	no	IBM2
umc2278	AC	4.00	0.00	yes	IBM2
ufg26		4.01	1.80	yes	IBM2
mtl1	AC	4.00-4.01	2.90	no	IBM2
bnlg1434	AC	4.01	4.30	yes	IBM2
ufg52	C	4.01	7.00	yes	IBM2
rca1	AC	4.01	9.90	yes	IBM2
umc4Stelo		4.00-4.01	10.67	no	UMC 98
mmp192		4.01	13.70	no	IBM2
msf1	C	4.01	15.80	yes	IBM2
uaz103a		4.01	17.03	no	BNL 2002
csu221		4.01	18.70	yes	IBM2
umc2279	C	4.01	22.90	no	IBM2
umc1228	C	4.01	23.40	yes	IBM2
bx1		4.01	23.48	no	SSR popl
bx5		4.01	23.55	no	BNL 2002
bnl(tas1e)		4.00	23.82	no	BNL 2002
uaz59		4.00-4.05	24.14	no	BNL 2002
umc123	C	4.01	24.60	yes	IBM2
umc1561		4.00-4.01	25.93	no	SSR popl
uaz58a		4.01	29.77	no	BNL 2002
mmp174		4.01	30.40	yes	IBM2
uaz53a		4.01	37.30	no	BNL 2002
bx4	C	4.01	37.50	yes	IBM2
bx3		4.01	37.50	no	BNL 2002
bx2		4.01	38.96	no	BNL 2002
uaz41d		4.01	42.31	no	BNL 2002
cyp5	AC	4.01	47.60	yes	IBM2
umc1669		4.01	57.50	yes	IBM2
rz329b(bga)		4.01	64.12	no	UMC 98
umc2409		4.01	70.05	no	SSR popl
uaz43b		4.01	73.44	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc1855		4.01	74.18	no	SSR popl
uaz54		4.01	75.74	no	BNL 2002
uaz47b		4.01	75.74	no	BNL 2002
uaz129		4.02	77.62	no	BNL 2002
uaz51		4.01	78.04	no	BNL 2002
zpl1d		4.02	78.04	no	BNL 2002
npi604a		4.01	79.74	no	BNL 96
umc1757	AC	4.01	81.00	no	IBM2
umc1759	AC	4.01	81.00	yes	IBM2
phi295450	AC	4.01	81.00	yes	IBM2
umc1758		4.01 - 4.02	81.93	no	SSR popl
uaz30a		4.02	83.05	no	BNL 2002
ias10		4.01 - 4.02	83.05	no	BNL 2002
php20725a		4.02	83.05	no	INDEL
uaz184(hfi)		4.02	86.90	no	BNL 2002
uaz61a		4.01 - 4.02	87.64	no	BNL 2002
uaz60		4.01 - 4.02	87.97	no	BNL 2002
uaz185(zp22)		4.02	88.32	no	BNL 2002
uaz55		4.01	89.53	no	BNL 2002
uaz43d		4.01	89.53	no	BNL 2002
uaz52a		4.01	89.53	no	BNL 2002
uaz50		4.01	90.57	no	BNL 2002
uaz14b		4.01	90.57	no	BNL 2002
uaz26b		4.01	90.57	no	BNL 2002
uaz42b		4.01	90.57	no	BNL 2002
uaz45b		4.01	90.57	no	BNL 2002
uaz46a		4.01	90.57	no	BNL 2002
uaz48a		4.01	90.57	no	BNL 2002
uaz49b		4.01	90.57	no	BNL 2002
uaz44b(zp19)		4.01	90.57	no	BNL 2002
cdo520(ser)	C	4.02	90.60	no	UMC 98
umc2410		4.02	91.57	no	SSR popl
uaz57a		4.01	91.72	no	BNL 2002
uaz38b		4.02	92.14	no	BNL 2002
uaz149(zp19)		4.02	92.14	no	BNL 2002
uaz70c		4.02	92.49	no	BNL 2002
zpl1b		4.02	92.87	no	BNL 2002
zpl1c		4.02	92.87	no	BNL 2002
zpl1a		4.01 - 4.02	92.87	no	BNL 2002
umc277		4.02	94.20	no	UMC 98
uaz17b		4.02	97.22	no	BNL 2002
uaz64b		4.02	97.22	no	BNL 2002
zpl1f		4.02	97.54	no	BNL 2002
umc1509		4.02	100.08	no	SSR popl
umc1943	AC	4.02	101.10	yes	IBM2
uaz67		4.02	101.81	no	BNL 2002
uaz65b		4.02	101.81	no	BNL 2002
uaz66a		4.02	101.81	no	BNL 2002
uaz69a		4.02	101.81	no	BNL 2002
uaz68b(zp19)		4.02	101.81	no	BNL 2002
bnl17.13b		4.02	101.81	no	BNL 96
uaz41c		4.02	105.09	no	BNL 2002
uaz103b		4.02	105.95	no	BNL 2002
inra2(prp)		4.02	106.42	no	UMC 98
umc1288	C	4.02	107.04	no	SSR popl
umc1294	C	4.02	108.43	no	SSR popl
PCO146629	C	4.02 - 4.03	110.44	no	INDEL
uaz40a		4.02 - 4.03	113.26	no	BNL 2002
dnap3		4.01	114.81	no	BNL 2002
chs556		4.03	126.23	no	BNL 2002
umc55b		4.03	126.28	no	BNL 2002
uaz63a		4.02	129.64	no	BNL 2002
php20713a		4.01	129.64	no	BNL 2002
zpl1e		4.01 - 4.02	129.64	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
uaz62a		4.01 - 4.02	129.64	no	BNL 2002
psr144b		4.02	130.10	yes	IBM2
umc171a(oc23)		4.02 - 4.03	130.86	no	UMC 98
umc87a	C	4.02	134.10	yes	IBM2
chr117c		4.02	134.10	no	ChromDB
umc31a	AC	4.03	135.10	no	IBM2
bnlg1126		4.03	135.30	no	IBM2
AY110398	AC	4.03	135.70	no	IBM2
umc1926		4.03	140.90	yes	IBM2
umc2082		4.03	141.60	no	IBM2
csu235		4.03	143.40	yes	IBM2
csu63b(cdj)		4.03	143.40	no	UMC 98
csu583		4.03	143.82	no	UMC 98
csu585		4.03	143.82	no	UMC 98
rgpc496b(adh)		4.03	143.82	no	UMC 98
adh2	AC	4.03	147.10	no	IBM2
rz53b		4.03	147.20	no	IBM2
AY110253	C	4.03	152.90	yes	IBM2
isu144b		4.03	157.60	yes	IBM2
umc2281	AC	4.03	158.60	yes	IBM2
umc2280	AC	4.03	158.80	no	IBM2
AY110573		4.03	163.90	yes	IBM2
uaz180		4.03	164.49	no	BNL 2002
bnlg1162		4.03	168.17	no	BNL 2002
umc2176		4.03	174.60	yes	IBM2
bnl5.46a		4.03	177.34	no	UMC 98
uaz298(PDsl)		4.03	177.34	no	UMC 98
uaz239a		4.03	181.34	no	BNL 96
umc1902	AC	4.03	181.40	yes	IBM2
dpg2		4.03	186.63	no	BNL 2002
pdl1	C	4.03	187.61	no	SSR popl
mmp111		4.03	189.10	yes	IBM2
uaz46b		4.05	189.63	no	BNL 2002
uaz48b		4.05	189.63	no	BNL 2002
dpg14		4.02 - 4.03	192.15	no	BNL 2002
rz630b(sat)		4.03	192.49	no	UMC 98
agrr109		4.03	195.71	no	UMC 98
umc2039	AC	4.03	196.40	yes	IBM2
pgd3	C	4.03	200.30	yes	IBM2
fl2		4.00 - 4.04	200.30	no	UMC 98
csu449		4.03 - 4.04	200.30	no	UMC 98
agrc39a		4.03 - 4.04	200.30	no	UMC 98
csu1135		4.03 - 4.04	200.30	no	UMC 98
uaz57b		4.04	201.89	no	BNL 2002
uaz145(ahh)		4.04	201.89	no	BNL 96
umc2211		4.03	203.68	no	SSR popl
wip2		4.03	205.00	yes	IBM2
uaz62b		4.04	211.40	no	BNL 2002
uaz63b		4.04	211.40	no	BNL 2002
csu855		4.03 - 4.04	211.40	no	UMC 98
med63c		4.03 - 4.04	211.40	no	UMC 98
bnl8.45c	C	4.03 - 4.04	211.40	no	IBM1
csu1185		4.03 - 4.04	211.40	no	UMC 98
csu298a		4.03 - 4.04	211.40	no	UMC 98
npi386(eks)	AC	4.04	211.40	yes	IBM2
rz900a(ahh)		4.03 - 4.04	211.40	no	UMC 98
uaz53b		4.04	213.86	no	BNL 2002
umc49e	C	4.04	213.91	no	IBM1
umc1821	C	4.04	214.47	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
uaz30b		4.03-4.04	216.89	no	BNL 2002
umc1117	AC	4.04	218.50	yes	IBM2
csu12c(cin4)		4.04-4.05	219.81	no	BNL 2002
lim415		4.04	223.60	yes	IBM2
umc1963	AC	4.04	225.70	yes	IBM2
bnlg1741		4.06	226.91	no	BNL 2002
umc1652	AC	4.04	228.40	yes	IBM2
jpsb527b		4.04	230.40	yes	IBM2
zp1	AC	4.04	232.20	no	IBM2
mmc0471	AC	4.04	232.20	yes	IBM2
sdg108a	C	4.04	232.20	no	ChromDB
umc2206	C	4.04	234.85	no	SSR popl
bnlg490	AC	4.04	237.80	yes	IBM2
psb3	C	4.04	239.38	no	UMC 98
uaz69b		4.05	239.42	no	BNL 2002
rgps2470		4.04	239.79	no	UMC 98
agrr37b	C	4.05	244.53	no	SSR popl
aco1		4.04-4.05	245.47	no	BNL 2002
bnl17.13c		4.05	245.47	no	BNL 2002
npi574a		4.05	245.47	no	BNL 96
bm3	C	4.05	245.50	no	UMC 98
agrr301		4.05	245.50	yes	IBM2
agrr321		4.05	245.50	no	UMC 98
csu599a		4.05	245.50	no	UMC 98
bap2		4.05	246.97	no	UMC 98
agrp67		4.05	246.97	no	UMC 98
agrp54b		4.05	247.79	no	UMC 98
umc1969		4.05	248.60	yes	IBM2
uaz42c		4.05	248.79	no	BNL 2002
uaz48c		4.05	248.79	no	BNL 2002
umc2061	AC	4.05	250.80	yes	IBM2
orp1		4.05	253.02	no	UMC 98
gpc1	AC	4.05	254.00	yes	IBM2
csu294		4.05	254.00	no	UMC 98
csu1098		4.05	254.00	no	UMC 98
csu1125		4.05	254.00	no	UMC 98
rz143b(gpc)		4.05	254.00	no	IBM2
csu565(rpPo)		4.05	254.00	no	UMC 98
csu474(rpS14)	AC	4.05	254.00	no	UMC 98
bnlg1937		4.05-4.06	254.11	no	BNL 2002
uaz49A		4.05	254.20	no	BNL 2002
umc2282	AC	4.05	254.90	no	IBM2
bnlg1217		4.05	255.32	no	BNL 2002
uaz61b		4.05	256.24	no	BNL 2002
uaz212		4.05	256.83	no	BNL 2002
bnl17.10		4.05	256.83	no	BNL 2002
npi289		4.05	257.70	no	BNL 2002
npi95a		4.05	257.70	no	BNL 96
umc191(gpc1)	C	4.05	258.60	yes	IBM2
uaz216		4.05	261.77	no	BNL 2002
uaz230a		4.05	261.77	no	BNL 2002
uaz157(rpL19)		4.05	261.77	no	BNL 2002
uaz265c(sbe)		4.05	261.77	no	BNL 96
agrc567		4.05	263.58	no	UMC 98
bnlg1265	AC	4.05	268.40	yes	IBM2
uaz218a(gss)		4.05	268.81	no	BNL 2002
agrr89		4.05	269.06	no	UMC 98
umc193d(orp)		4.05	269.06	no	UMC 98
umc1303	AC	4.05	270.30	yes	IBM2
umc1382	C	4.05	270.30	no	SSR popl
uaz41b		4.05	270.36	no	BNL 2002
uaz42a		4.05	270.36	no	BNL 2002
uaz45a		4.05	270.36	no	BNL 2002
uaz46c		4.05	270.36	no	BNL 2002
zpl2a		4.04-4.05	270.36	no	BNL 2002
uaz44a(zp19)		4.05	270.36	no	BNL 2002
uaz43a		4.05	270.78	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc1964	AC	4.05	271.40	no	IBM2
bnl17.23c(pal)		4.05	272.44	no	BNL 2002
AY110290	C	4.05	274.70	yes	IBM2
uaz56		4.05	274.77	no	BNL 2002
uaz246a(mbf)	C	4.05	274.77	no	BNL 2002
bnlg2209		4.05	276.54	no	BNL 2002
dnap4		4.05	276.59	no	BNL 96
umc1390		4.05	277.57	no	SSR popl
psr152b		4.05	277.80	yes	IBM2
csu509	AC	4.05	279.90	yes	IBM2
umc1662		4.05	282.04	no	SSR popl
mmp125		4.05	283.30	yes	IBM2
umc1031	AC	4.05	286.00	yes	IBM2
chr112a	C	4.05	287.20	no	ChromDB
umc1175	AC	4.05	287.30	no	IBM2
hda108		4.05	287.70	no	ChromDB
umc1896		4.05	288.09	no	SSR popl
umc1362	C	4.05	288.09	no	SSR popl
umc1451	C	4.05	288.09	no	SSR popl
umc42a		4.05	288.40	yes	IBM2
bnlg252		4.06	288.42	no	BNL 2002
pic1b		4.05	288.60	no	BNL 2002
zpl3a		4.04-4.05	288.62	no	BNL 2002
bnlg1729		4.05	288.67	no	BNL 2002
uaz72		4.05	288.71	no	BNL 2002
mpik11f		4.05	288.71	no	BNL 2002
mpik15b		4.05	288.71	no	BNL 2002
uaz261b		4.05	288.71	no	BNL 2002
ucsd72l		4.05	288.71	no	BNL 2002
umc(orp1)		4.05	288.71	no	BNL 2002
ucsd62j(zag4)		4.05	288.71	no	BNL 2002
bnl(tas3a)		4.05	289.92	no	BNL 96
isu61d		4.05	291.30	yes	IBM2
jpsb67		4.05	292.40	no	IBM2
bt2	C	4.05	292.90	no	UMC 98
bet2		4.05	292.90	no	BNL 2002
csu902		4.05	292.90	no	UMC 98
med63a		4.05	292.90	no	UMC 98
agrr286		4.05	292.90	no	UMC 98
agrr62b		4.05	292.90	no	UMC 98
bnl15.45		4.05	292.90	yes	IBM2
csu1026		4.05	292.90	no	UMC 98
dpg7a		4.05	292.90	no	BNL 2002
umc242	C	4.05	292.90	no	UMC 98
umc263	C	4.05	292.90	no	UMC 98
umc47a	C	4.05	292.90	no	UMC 98
npi367b		4.05	292.90	no	BNL 2002
bnlg1168		4.05	292.90	no	BNL 2002
bnlg1790		4.05	292.90	no	BNL 2002
bnlg667b		4.05	292.90	no	BNL 2002
bnl12.06b		4.05	292.90	no	BNL 2002
bnl15.27a		4.05	292.90	no	BNL 2002
std1a(his2B1)		4.05	292.90	no	UMC 98
csu19(co1p)		4.04-4.05	293.14	no	BNL 2002
umc1953	AC	4.05	294.30	no	IBM2
umc2283	AC	4.05	294.40	no	IBM2
bnlg1159a	AC	4.05	294.86	no	BNL 2002
umc1511	AC	4.05	295.20	yes	IBM2
wsu(nia2)		4.05	296.55	no	BNL 2002
pbs13a		4.05	296.88	no	BNL 2002
bnl17.09		4.05	296.88	no	BNL 2002
umc2054		4.05	296.99	no	SSR popl
csu74(fdx)		4.05	297.06	no	UMC 98
psr128		4.05	297.40	yes	IBM2
uaz195(ms)		4.05	297.49	no	BNL 2002
umc33b		4.05	297.53	no	UMC 98
csu716	C	4.05	297.53	no	UMC 98
cdo395a(ypt)		4.05	297.53	no	UMC 98
umc1791	AC	4.05	298.10	no	IBM2
mmp190		4.05	298.40	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
mmp140		4.05	298.90	yes	IBM2
umc1895		4.05	298.93	no	SSR popl
ncr(nrB)		4.05	299.39	no	BNL 2002
uaz71a		4.05	299.48	no	BNL 2002
bnlg1755	AC	4.05	299.90	yes	IBM2
mmp45		4.05	300.20	no	IBM2
umc1851		4.05	302.33	no	SSR popl
umc1142	AC	4.05	302.50	yes	IBM2
uaz73		4.05	302.94	no	BNL 2002
bnl35b(bl)		4.05	302.97	no	BNL 2002
csu81b(ank)		4.05	303.33	no	BNL 2002
dup(als1)		4.05	303.76	no	BNL 2002
agrp83a		4.05	304.00	no	UMC 98
csu93c	C	4.05	304.00	no	UMC 98
bnl5.71b		4.05	304.00	no	UMC 98
umc1346	C	4.05	304.30	yes	IBM2
mpik19b		4.05	304.51	no	BNL 2002
ucsd72g		4.05	304.64	no	BNL 2002
mpik11d		4.05	304.90	no	BNL 2002
nfd104e		4.05	304.97	no	ChromDB
umc1702	AC	4.05	305.20	no	IBM2
mmp155		4.05	305.50	no	IBM2
mmp149		4.05	306.40	yes	IBM2
npi284		4.05	306.96	no	BNL 96
mmp86		4.05	307.40	no	IBM2
cdo497		4.05	308.63	no	UMC 98
tda62b		4.05	308.63	no	UMC 98
cdo116b		4.05	308.63	no	UMC 98
bnl5.33a		4.05	308.63	no	UMC 98
std16a(bl)		4.05	308.63	no	UMC 98
mmp78		4.05	310.70	yes	IBM2
ias12		4.05	311.36	no	BNL 2002
CL65845_1	C	4.05-4.06	312.07	no	INDEL
umc1317	C	4.05	313.00	no	SSR popl
ucsd64f		4.05	313.15	no	BNL 2002
csu84		4.05	313.25	no	UMC 98
npi267		4.05	313.25	no	UMC 98
bnl7.20		4.05	313.25	no	UMC 98
npi594b		4.05	313.25	no	UMC 98
umc273b		4.05	313.25	no	UMC 98
npi259a		4.05	313.25	no	BNL 2002
csu100(ptk)		4.05	313.25	no	UMC 98
csu693(lrr)		4.05	313.25	no	UMC 98
csu742b(rpS7)		4.05	313.25	no	UMC 98
nfa104		4.05	314.90	no	IBM2
csu1063		4.05	317.42	no	UMC 98
csu358b(pal)	C	4.05	317.42	no	UMC 98
umc1548		4.05	318.73	no	SSR popl
umc1891		4.05	318.73	no	SSR popl
AY110562	AC	4.05	320.40	yes	IBM2
bnlg1930		4.05-4.06	324.68	no	BNL 2002
umc23b		4.05	324.80	no	BNL 2002
AY110355	AC	4.05	326.50	yes	IBM2
uaz170		4.06	327.59	no	BNL 2002
umc156a	C	4.06	327.59	no	SSR popl
php20597a		4.06	329.60	yes	IBM2
npi340b		4.06	329.89	no	BNL 96
uaz47a		4.06	331.26	no	BNL 2002
mmc0371	AC	4.06	331.30	yes	IBM2
umc2284	AC	4.06	332.40	no	IBM2
csu638		4.06	332.50	no	UMC 98
umc1945	AC	4.06	333.20	yes	IBM2
mmp74		4.06	335.20	no	IBM2
ucsd61i(zag4)		4.05-4.06	336.12	no	BNL 96
npi396		4.06	338.41	no	BNL 2002
umc2391		4.06	345.35	no	SSR popl
nfd105		4.06	346.72	no	ChromDB
csu661	AC	4.06	349.68	no	UMC 98
umc2027		4.06	349.80	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
mmp97		4.06	354.50	yes	IBM2
csu640		4.06	355.20	no	UMC 98
mmp176		4.06	355.40	yes	IBM2
AY110310	AC	4.06	362.40	yes	IBM2
rgpr663a		4.06	366.25	no	UMC 98
mpik3		4.06	367.20	yes	IBM2
uaz144a		4.06	367.29	no	BNL 96
bnl8.08h		4.06	371.62	no	BNL 2002
dupssr16		4.06	371.71	no	BNL 2002
csu816		4.06	371.77	no	UMC 98
csu587a		4.06	371.77	no	UMC 98
umc1299	AC	4.06	372.84	no	SSR popl
uaz228c(his2b)		4.06	372.84	no	BNL 2002
rz567b(klc)	AC	4.06	373.30	yes	IBM2
npi584		4.06	375.04	no	BNL 2002
uaz257		4.06	375.04	no	BNL 2002
bnlg1023a		4.06	378.95	no	BNL 2002
rz273a(ant)		4.06	379.30	yes	IBM2
uaz130b(tlk)	C	4.05	379.99	no	BNL 2002
umc1869		4.06	380.19	no	SSR popl
umc2070	AC	4.06	380.58	no	SSR popl
ias11		4.06	382.26	no	BNL 2002
dge18		4.06	383.37	no	BNL 2002
csu643b		4.06	384.04	no	UMC 98
csu907a		4.06	384.04	no	UMC 98
umc1329	C	4.06	384.91	no	SSR popl
mpik11e		4.05	385.55	no	BNL 2002
mpik15a		4.05	385.55	no	BNL 2002
mpik16e		4.05	385.55	no	BNL 2002
rgpc601a		4.06	388.03	no	UMC 98
trg1		4.06	389.92	no	BNL 96
bnlg2291	AC	4.06	392.20	no	IBM2
bnlg1137	AC	4.06	392.40	yes	IBM2
gln5		4.06	393.24	no	UMC 98
ucsd64g		4.06	393.64	no	BNL 2002
bnlg1784		4.07	395.80	no	BNL 2002
dupssr34		4.07	395.81	no	BNL 2002
uaz263		4.07	396.73	no	BNL 2002
uaz74		4.07	397.13	no	BNL 2002
umc66	C	4.07	397.40	yes	IBM2
pbs13c		4.07	397.73	no	BNL 2002
prh1		4.07	399.69	no	UMC 98
csu525(rpL17)		4.07	399.69	no	UMC 98
umc66a(lcr)	C	4.07	399.69	no	INDEL
rz446a		4.07	402.95	no	UMC 98
kpte		4.07	405.49	no	UMC 98
umc104a		4.07	408.70	yes	IBM2
bnlg1621a		4.06	409.59	no	BNL 2002
pbs16c		4.07	410.74	no	BNL 2002
mmp147		4.07	410.80	yes	IBM2
umc2038	AC	4.07	411.30	yes	IBM2
umc1651		4.07	412.12	no	SSR popl
umc19	C	4.07	414.20	yes	IBM2
umc229a		4.07	414.20	no	UMC 98
uaz66b		4.07	414.20	no	BNL 2002
bnl8.08i		4.07	414.20	no	BNL 2002
umc1994	AC	4.07	414.40	no	SSR popl
agrp168c		4.07	415.30	no	UMC 98
bnl5.67a		4.07	415.30	no	UMC 98
umc1847		4.07	418.20	no	SSR popl
umc244a		4.07	418.66	no	UMC 98
mmp115		4.07	420.60	yes	IBM2
zag3		4.05-4.06	421.23	no	BNL 2002
umc1620		4.07	421.25	no	SSR popl
umc126b	C	4.06	425.54	no	BNL 2002
umc1194		4.07	427.56	no	SSR popl
bnlg1189	AC	4.07	428.00	no	IBM2
uaz222		4.07	428.21	no	BNL 2002
bnl5.24b		4.07	430.20	yes	IBM2
wsu(nia3)		4.07	432.69	no	BNL 96
umc127c		4.08	436.72	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
PCO119336	C	4.07-4.08	436.95	no	INDEL
asg33	C	4.07	437.50	yes	IBM2
csu672b	C	4.07	437.50	no	UMC 98
csu597d(dah)	C	4.07	437.50	no	UMC 98
asg9a		4.07	440.88	no	UMC 98
uaz171		4.08	441.91	no	BNL 2002
mmc0341	AC	4.07	443.19	no	SSR popl
umc1775	C	4.08	443.20	yes	IBM2
asg74b		4.08	443.92	no	UMC 98
umc2009		4.08	446.76	no	SSR popl
npi292		4.07	448.98	no	BNL 96
umc1667		4.08	449.40	yes	IBM2
asg85a		4.08	451.01	no	UMC 98
AY109534	AC	4.08	452.10	no	IBM2
umc1808		4.08	452.90	yes	IBM2
mmp3		4.08	455.90	yes	IBM2
asg27a		4.08	458.10	yes	IBM2
npi253b		4.08	458.92	no	BNL 96
umc1476	C	4.08	462.10	no	IBM2
bnlg1444		4.08	462.50	yes	IBM2
dupssr28		4.08	462.58	no	BNL 2002
bnlg1927	AC	4.07	462.58	no	BNL 2002
bnl22		4.08	462.61	no	BNL 2002
npi208a		4.08	462.66	no	BNL 2002
fer1		4.08	463.30	no	UMC 98
gol1	C	4.08	463.30	yes	IBM2
csu91a		4.08	463.30	no	UMC 98
umc1871		4.08	464.39	no	SSR popl
bnl7.65		4.08	464.80	no	IBM2
rgpg24		4.08	464.80	no	UMC 98
umc133a		4.08	464.80	no	UMC 98
rgpg124a	C	4.08	464.80	no	UMC 98
bnl10.05		4.08	466.10	yes	IBM2
bnlg2244	AC	4.08	467.10	yes	IBM2
bnl8.45b	C	4.08	468.75	no	SSR popl
umc2384		4.08	468.77	no	SSR popl
umc1899	AC	4.08	470.60	yes	IBM2
pdh1	AC	4.08	471.86	no	SSR popl
umc2404		4.08	471.86	no	SSR popl
umc158		4.08	473.90	yes	IBM2
umc14a		4.05-4.06	473.90	no	UMC 98
csu720b		4.05-4.06	473.90	no	UMC 98
uaz252a(ptk)		4.08	473.90	no	BNL 2002
csu428(cyb561)		4.05-4.06	473.90	no	UMC 98
umc1418	AC	4.08	475.60	no	SSR popl
bnlg2162	AC	4.08	475.70	no	IBM2
mmp70		4.08	476.00	no	IBM2
umc2405		4.08	476.46	no	SSR popl
umc2635		4.08	477.90	no	SSR popl
PCO129009	C	4.08	478.89	no	INDEL
npi570		4.08	480.70	yes	IBM2
umc2041		4.08	483.93	no	SSR popl
AY112127	AC	4.08	487.70	yes	IBM2
ufg23		4.08	499.90	yes	IBM2
umc1086	C	4.08	500.59	no	SSR popl
AY110631		4.08	510.00	yes	IBM2
umc2285	AC	4.08	514.90	yes	IBM2
npi270		4.08	516.60	yes	IBM2
npi300c		4.08	516.69	no	BNL 2002
php20071		4.08	518.10	yes	IBM2
rgpl102		4.08	518.10	no	UMC 98
cdo127a(pyk)	C	4.08	518.10	no	UMC 98
mmc0321	AC	4.08	518.34	no	SSR popl
uaz122		4.08	519.55	no	BNL 2002
bnl17.05(ssu)		4.08	520.12	no	BNL 96
ssu1	AC	4.08	522.10	yes	IBM2
CL12681_1	C	4.08	523.23	no	INDEL
umc1612	AC	4.08	523.40	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
npi444		4.08	524.10	yes	IBM2
umc15a		4.08	525.80	yes	IBM2
umn433		4.08	525.80	no	UMC 98
csu166a		4.08	525.80	no	UMC 98
rgpg111		4.08	525.80	no	UMC 98
csu1038b		4.08	525.80	no	UMC 98
csu1073b		4.08	525.80	no	UMC 98
cdo365(pet)	AC	4.08	525.80	no	UMC 98
csu597a(dah)	C	4.08	525.80	no	UMC 98
php20562		4.08	526.00	no	UMC 98
c2	C	4.08	526.57	no	SSR popl
tda44		4.08	526.57	no	UMC 98
csu178a		4.08	526.57	no	UMC 98
npi910		4.08	526.57	no	BNL 2002
umc1051	AC	4.08	526.57	no	SSR popl
csu202(rpL7)		4.08	526.57	no	UMC 98
PCO136722	C	4.08	530.42	no	INDEL
umc2187	C	4.08	531.70	yes	IBM2
npi410		4.08	533.87	no	BNL 2002
psr109b		4.08	533.87	no	BNL 2002
umc1842		4.08	534.80	yes	IBM2
umc1856		4.08	534.80	no	SSR popl
umc1371	C	4.08	534.80	no	SSR popl
AY109980	C	4.06	535.40	no	IBM2
umc1132	AC	4.08	535.50	no	IBM2
nfd106	C	4.08	535.55	no	ChromDB
AY105971	AC	4.08	536.30	yes	IBM2
AY110989	AC	4.08	536.90	yes	IBM2
ensl002a		4.08	537.11	no	BNL 2002
rz596b		4.08	539.00	yes	IBM2
bnl23a		4.08	542.87	no	BNL 2002
bnl29(pds2)		4.08	542.87	no	BNL 2002
umc2200	C	4.08	543.44	no	SSR popl
umc2135		4.08	544.10	yes	IBM2
uaz33b		4.09	548.95	no	BNL 2002
mmp178		4.08	551.00	yes	IBM2
umc1834		4.08	551.21	no	SSR popl
csu704	C	4.08	553.34	no	UMC 98
umc2286	AC	4.08	553.70	no	IBM2
mpik(chs1a)		4.08	553.81	no	BNL 2002
umc2188	AC	4.08	554.10	yes	IBM2
umc2360	C	4.08-4.09	554.90	no	SSR popl
uaz142		4.08	558.11	no	BNL 2002
umc52	C	4.09	559.00	yes	IBM2
csu39	C	4.08-4.09	559.00	no	UMC 98
csu50a	C	4.08-4.09	559.00	no	UMC 98
umc1559		4.08-4.09	559.00	no	SSR popl
AY110170	C	4.09	561.50	no	IBM2
umc1313	C	4.08-4.09	562.75	no	SSR popl
lim446		4.09	565.40	yes	IBM2
csu201		4.09	567.32	no	UMC 98
mwg645e		4.09	570.61	no	BNL 96
csu241b		4.09	570.64	no	UMC 98
rgpc643a		4.09	570.64	no	UMC 98
uaz115		4.09	570.99	no	BNL 2002
csu304b		4.09	571.47	no	UMC 98
uaz41a		4.09	571.95	no	BNL 2002
cuny9		4.09	572.37	no	BNL 2002
bnlg1019b	C	4.09-4.10	573.11	no	BNL 2002
bnlg2148		4.09	573.69	no	BNL 2002
bnlg292b	C	4.08-4.09	573.71	no	SSR popl
umc2139	AC	4.09	574.80	yes	IBM2
csu674(gts)		4.09	578.13	no	UMC 98
php10025		4.09	579.80	yes	IBM2
ensl002b		4.09	580.08	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
PCO104784	C	4.09	580.31	no	INDEL
umc1939		4.09	580.69	no	SSR popl
umc1940	AC	4.09	581.80	no	IBM2
umc1999	AC	4.09	581.80	yes	IBM2
ris2		4.09	583.12	no	BNL 96
uaz137		4.08	584.64	no	BNL 2002
mgs2	C	4.09	589.37	no	BNL 2002
umc1854		4.09	595.70	yes	IBM2
rgpr3235b	C	4.09	597.00	no	UMC 98
csu862b(rpL11)		4.09	597.00	no	UMC 98
mmp24		4.09	598.60	no	IBM2
umc1989		4.09	599.40	no	SSR popl
mmp134		4.09	599.50	yes	IBM2
rz476a		4.09	601.40	no	IBM2
rz599b	C	4.09	601.40	no	IBM2
npi449b		4.09	601.60	yes	IBM2
umc1650		4.09	602.10	no	IBM2
umc1803		4.09	602.20	no	IBM2
asg22		4.09	603.30	yes	IBM2
csu745b(rpPo)	C	4.09	603.30	no	UMC 98
mmp94		4.09	605.50	yes	IBM2
umc1740	AC	4.09	611.90	no	SSR popl
AY109933	AC	4.09	613.00	yes	IBM2
CL2227_3	C	4.09	613.42	no	INDEL
AY110064	C	4.09	616.70	no	IBM2
umc1328	AC	4.09	618.10	yes	IBM2
umc1631		4.09	618.10	no	SSR popl
umc2287	AC	4.09	619.40	yes	IBM2
rp3	AC	4.09	621.42	no	SSR popl
umc1643		4.09	621.61	no	SSR popl
umc1820		4.09	622.93	no	SSR popl
cdo534a(cts)		4.09	623.20	yes	IBM2
csu324a(cts)		4.09	623.20	no	UMC 98
csu34b(rpS8)	C	4.09	623.20	no	UMC 98
cdo534c(cts)		4.09	623.40	no	IBM2
umc2382	C	4.09	624.36	no	SSR popl
npi333		4.09-4.10	625.99	no	BNL 96
AY110231	AC	4.09	635.20	yes	IBM2
cdo1395c		4.09	635.91	no	UMC 98
csu1107		4.09	637.21	no	UMC 98
csu719(lox)		4.09	637.21	no	UMC 98
umc1284		4.09	641.02	no	SSR popl
csu631		4.09	643.08	no	UMC 98
sbp2	AC	4.09	644.30	yes	IBM2
bnlg1565		4.09	645.70	no	IBM2
bnlg572b		4.09	647.82	no	BNL 2002
uaz65a		4.09	648.81	no	BNL 2002
bnlg2299		4.09	650.44	no	BNL 2002
knox7		4.09-4.10	650.48	no	BNL 2002
npi116a		4.09	651.61	no	BNL 2002
npi593a		4.09	651.70	yes	IBM2
npi294g		4.09	652.20	no	UMC 98
uaz123b		4.09-4.10	652.92	no	BNL 2002
PCO088312	C	4.09-4.10	654.70	no	INDEL
umc1101	C	4.09	655.00	yes	IBM2
umc2046	AC	4.09	657.00	yes	IBM2
bnlg2186		4.11	657.66	no	BNL 2002
uaz279(cbp)		4.09	658.07	no	UMC 98
csu848a(vpp)		4.09	658.07	no	UMC 98
ici281		4.10	659.03	no	BNL 2002
uwo3		4.10	666.64	no	BNL 96
csu283a		4.10	669.80	no	UMC 98
csu758	AC	4.10	669.80	no	UMC 98
csu330(ubi)		4.10	669.80	no	UMC 98
csu377a(ubi)		4.10	669.80	no	UMC 98
php20608a	AC	4.09-4.10	669.80	yes	IBM2
uwo8		4.11	670.20	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnlg589	AC	4.10	670.20	yes	IBM2
isu2191a		4.10	670.20	no	BNL 2002
umc1503	AC	4.09-4.10	671.48	no	SSR popl
umc1532		4.10	671.90	yes	IBM2
umc124b(chk)		4.10	672.40	yes	IBM2
pge17		4.11	678.18	no	BNL 2002
uaz247(ubi)		4.10	679.17	no	BNL 2002
dpg15a		4.10	680.28	no	BNL 2002
agrr169		4.10	682.59	no	INDEL
bnl32		4.11	685.82	no	BNL 2002
umc1109	AC	4.10	687.80	yes	IBM2
umc1720		4.10	688.03	no	SSR popl
lim471		4.10	688.70	yes	IBM2
npi451		4.11	688.91	no	BNL 2002
bnl(tas1o)		4.11	689.21	no	BNL 2002
umc2011		4.10	689.25	no	SSR popl
dba1		4.10	691.20	no	UMC 98
bnl15.07a		4.10	691.20	yes	IBM2
umc2288	AC	4.10	692.10	yes	IBM2
umc1699		4.10	692.94	no	SSR popl
asg41		4.10	695.50	yes	IBM2
umc2044		4.10	696.05	no	SSR popl
umc1180	AC	4.10	698.90	yes	IBM2
csu36a(rpL19)		4.10	699.17	no	UMC 98
PCO109372	C	4.10	699.66	no	INDEL
cas1		4.10	701.86	no	UMC 98
AY109668	C	4.10	702.20	yes	IBM2
bnlg1917		4.10	703.52	no	BNL 2002
csh2a(cdc2)		4.10	704.21	no	BNL 96
bnlg1337		4.11	707.24	no	BNL 2002
umc2289	AC	4.10	707.80	yes	IBM2
AY109859	AC	4.11	708.50	yes	IBM2
AY109611	AC	4.11	715.50	yes	IBM2
umc1738	AC	4.10	720.48	no	SSR popl
bnl8.23a		4.10-4.11	726.30	no	UMC 98
ncr(cat3)		4.10	727.63	no	BNL 96
csu380		4.11	728.50	no	UMC 98
umc169	AC	4.11	728.50	yes	IBM2
umc111a(psy)		4.11	728.50	no	UMC 98
cpn10		4.10-4.11	728.50	no	SSR popl
umc1719	AC	4.10-4.11	730.75	no	SSR popl
umc1716	AC	4.11	732.99	no	SSR popl
umc112c		4.11	733.63	no	UMC 98
umc2290	AC	4.11	736.70	no	IBM2
bp2	AC	4.11	737.80	yes	IBM2
umc1649	AC	4.11	739.30	no	IBM2
mmp182		4.11	740.70	yes	IBM2
csu710b(apx)		4.11	742.68	no	UMC 98
csu315b		4.11	743.41	no	UMC 98
cat3	AC	4.11	744.10	yes	IBM2
umc1707	C	4.11	748.30	yes	IBM2
bnlg1890		4.11	750.20	yes	IBM2
ncr(b70b)		4.10	752.97	no	BNL 2002
isu61b		4.11	753.50	no	IBM1
ufg(ivr2a)		4.10	804.83	no	BNL 96
umc1491	AC	5.00	-32.40	no	SSR popl
bnl(tas1n)		5.00	-13.30	no	BNL 96
bnl(tas2g)		5.00	-9.34	no	BNL 2002
bnl(tas2b)		5.00	-3.07	no	BNL 2002
Al676903	AC	5.00	0.00	yes	IBM2
umc1308	AC	5.00	6.30	no	SSR popl
AY110625	AC	5.00	10.70	yes	IBM2
CL21419_1	C	5.00	13.70	no	INDEL
tum3		5.00-5.03	14.66	no	BNL 2002
umc1240	C	5.00	16.30	no	SSR popl
AY109758	C	5.00	17.10	yes	IBM2
uaz75		5.00	17.21	no	BNL 2002
ufg36	C	5.00	20.80	yes	IBM2
mmc0151	AC	5.00	22.60	no	SSR popl
umc1253	AC	5.00	22.70	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc2292	AC	5.00	22.70	yes	IBM2
umc2291	AC	5.00	23.30	yes	IBM2
csu1087		5.00	24.50	yes	IBM2
uaz214		5.00	29.69	no	BNL 2002
umc1423	AC	5.00	30.00	yes	IBM2
csu277		5.00	31.50	no	UMC 98
csu527(crm)	C	5.00	31.50	no	UMC 98
uaz259		5.00	31.52	no	BNL 2002
PCO062666	C	5.00	34.14	no	INDEL
umc1445	AC	5.00	37.60	yes	IBM2
umc1496	AC	5.00	38.82	no	SSR popl
csh1c(chi)		5.00	39.20	no	BNL 96
umc2022	AC	5.00	39.40	no	IBM2
umc1097	AC	5.00	40.80	yes	IBM2
npi890		5.00	42.25	no	BNL 2002
mmp6		5.00	42.40	yes	IBM2
bnl8.33	C	5.00	46.80	yes	IBM2
cdo457a		5.00	46.80	no	UMC 98
bnlg1006	AC	5.00	47.50	no	IBM2
umc1901	AC	5.00	50.10	yes	IBM2
umc866b		5.00	52.80	yes	IBM2
uaz76a		5.00	54.13	no	BNL 2002
umc1325	AC	5.00	54.60	yes	IBM2
asg60		5.00	57.48	no	UMC 98
rgpg164	AC	5.00	61.16	no	UMC 98
umc1260	AC	5.00	68.10	yes	IBM2
sca1	C	5.00	68.50	yes	IBM2
npi409	AC	5.01	69.50	yes	IBM2
bnl6.25a		5.01	69.50	no	UMC 98
csu33a	AC	5.01	69.50	no	UMC 98
csu663a(psaD)		5.01	69.50	no	UMC 98
umc1679	AC	5.01	71.50	no	IBM2
umc1523	AC	5.01	71.90	yes	IBM2
csu604b(trh)	C	5.01	73.04	no	UMC 98
mmp43		5.01	73.30	no	IBM2
bnl7.21c		5.01	74.40	yes	IBM2
ohp2	AC	5.01	75.66	no	BNL 2002
umc1478		5.01	79.17	no	SSR popl
cdo87a(ptk)	C	5.01	83.67	no	UMC 98
jpsb239a		5.01	83.70	yes	IBM2
bnl8.29b		5.01	83.92	no	BNL 96
lim407		5.01	85.10	yes	IBM2
tua3		5.01	90.17	no	UMC 98
rpa7b		5.01	90.17	no	UMC 98
umc144a		5.01	90.17	no	UMC 98
csu1169a		5.01	90.17	no	UMC 98
csu570a(mtl)		5.01	90.17	no	UMC 98
AY109733	C	5.01	90.20	yes	IBM2
umc1365	AC	5.01	97.95	no	SSR popl
umc147a		5.01	99.03	no	UMC 98
umc240	C	5.01	99.03	no	UMC 98
bnl17.18a		5.01	99.03	no	UMC 98
npi75a		5.01	99.05	no	BNL 2002
npi579a		5.01	99.05	no	BNL 96
uaz134		5.02	103.23	no	BNL 2002
bnl7.24b		5.01	103.69	no	BNL 2002
uaz201(tua)		5.01	104.40	no	BNL 2002
csu707		5.01	104.93	no	UMC 98
bnlg1836		5.01	106.08	no	BNL 2002
asg54b		5.01	107.88	no	UMC 98
umc1766		5.01	111.76	no	SSR popl
bnlg143		5.01	114.17	no	BNL 96
uat4b		5.01	116.45	no	UMC 98
uaz163		5.01	122.34	no	BNL 2002
bcd450a		5.01	123.24	no	UMC 98
csu137a(ap)		5.01	123.24	no	UMC 98
umc2036	AC	5.01	124.70	yes	IBM2
umc1781	AC	5.01	124.70	no	SSR popl
npi282a		5.01	129.30	yes	IBM2
cuny7		5.01	129.30	no	BNL 2002
npi581b		5.01	129.30	no	BNL 2002
ucsd104a(zag6)		5.01	129.30	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
hxa102a		5.01	130.00	no	ChromDB
ucsd64a		5.01	133.17	no	BNL 96
mpik22b(zmm4)		5.01	133.17	no	BNL 2002
rgpc975(rpS27)		5.01	134.46	no	UMC 98
npi305a		5.01	137.04	no	BNL 2002
ucsd72j		5.01	137.04	no	BNL 96
uaz166b		5.01	137.50	no	BNL 2002
rz630f(sat)		5.01	138.00	yes	IBM2
hcf108		5.01	141.18	no	BNL 2002
csu318		5.01	141.25	no	UMC 98
umc72a		5.01 - 5.02	141.25	no	UMC 98
umc90	AC	5.02	142.43	no	SSR popl
ucsd106c		5.01	144.67	no	BNL 2002
tua4	C	5.02	147.50	yes	IBM2
bnlg1382		5.01	148.43	no	BNL 2002
asg73		5.02	149.70	yes	IBM2
umc144b		5.01 - 5.02	149.70	no	UMC 98
bnlg565	AC	5.02	150.90	yes	IBM2
ole3	AC	5.03 - 5.04	151.75	no	BNL 2002
bcd808d		5.02	152.00	no	IBM2
psr922a		5.02	153.80	yes	IBM2
chb101a		5.02	153.80	no	ChromDB
umc1587	AC	5.02	156.90	yes	IBM2
rz632a		5.02	158.15	no	UMC 98
umc107b(croc)	AC	5.02	160.20	yes	IBM2
csu554b(rmh)		5.02	161.60	no	IBM2
umc1894		5.01 - 5.02	164.59	no	SSR popl
cdo122b(nad)		5.02	164.60	yes	IBM2
uaz167b		5.02	165.17	no	BNL 2002
pgm2		5.02	165.17	no	BNL 96
umc106b		5.02	173.44	no	BNL 2002
phyA2		5.02	177.16	no	BNL 2002
ufg27	C	5.02	179.30	no	IBM2
mmp130		5.02	179.60	yes	IBM2
csu10a		5.02	181.70	no	UMC 98
bcd1072a(hsp70)		5.02	181.70	yes	IBM2
uaz211		5.02	182.23	no	BNL 2002
uaz219(hsp)		5.02	182.91	no	BNL 2002
uaz215b(odo)		5.02	183.23	no	BNL 2002
uaz205a(hsp70)		5.03	184.27	no	BNL 2002
uwm2(rmp)		5.02	185.09	no	UMC 98
bnlg105	AC	5.02	185.09	no	SSR popl
csu108(gbp)	C	5.02	185.09	no	UMC 98
bnlg1879	AC	5.03	189.80	yes	IBM2
ufg25	C	5.03	190.90	no	IBM2
umc2293	C	5.03	196.90	yes	IBM2
tub4	C	5.03	200.46	no	SSR popl
mbd109		5.03	203.20	no	ChromDB
csu164b	C	5.03	203.30	yes	IBM2
csu511b		5.03	204.10	no	UMC 98
rz474a(dnaj)		5.03	204.10	yes	IBM2
csu222b(wsi)		5.03	204.10	no	UMC 98
csu574a(eif2B)	C	5.03	204.10	no	UMC 98
umc2388	C	5.02 - 5.03	206.86	no	SSR popl
bnlg1660		5.03	207.75	no	BNL 2002
knox10		5.02 - 5.03	207.75	no	BNL 2002
csic(mah9)		5.03	207.75	no	BNL 96
csu150b		5.03	208.66	no	BNL 2002
nfc103b	C	5.03	208.78	no	ChromDB
csy1		5.03	209.19	no	BNL 2002
uaz25d		5.03	209.38	no	BNL 2002
umc1686		5.03	210.30	yes	IBM2
tbp2	AC	5.03	211.74	no	UMC 98
rpa6a		5.02	211.90	no	UMC 98
niu2::Bs1		5.03	212.30	no	BNL 2002
mmp112		5.03	212.70	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnlg557		5.03	213.46	no	BNL 2002
mpik33e		5.03	213.46	no	BNL 2002
umc1852		5.03	213.91	no	SSR popl
cdo795b		5.03	214.50	yes	IBM2
bnlg1046	AC	5.03	216.30	yes	IBM2
dnap2		5.03	216.41	no	BNL 2002
npi434		5.03	216.41	no	BNL 2002
umc1597	AC	5.03	217.80	yes	IBM2
umc27a	C	5.03	217.85	no	BNL 96
ici97		5.03	218.35	no	BNL 2002
bnl7.56		5.03	219.20	yes	IBM2
umc2060		5.03	220.70	no	SSR popl
rps15	AC	5.03	220.95	no	SSR popl
csu340		5.03	222.50	yes	IBM2
rgpc643d		5.03	222.50	no	UMC 98
rgpr440a(gap)		5.03	222.50	no	UMC 98
csu175c(eif5A)		5.03	222.50	no	UMC 98
uaz159a		5.03	223.44	no	BNL 2002
psr544		5.03	227.20	yes	IBM2
umc1468		5.03	227.35	no	SSR popl
bcd207b		5.03	229.00	yes	IBM2
mmp180		5.03	229.90	no	IBM2
mmc0351	AC	5.03	230.40	yes	IBM2
umc2035	AC	5.03	231.00	yes	IBM2
PCO135705	C	5.03	232.17	no	INDEL
rny(pcr)b		5.03	235.25	no	BNL 96
AY111142	C	5.03	235.60	yes	IBM2
cdo98a	C	5.03	239.60	yes	IBM2
umc1705		5.03	240.80	no	IBM2
mdh5		5.03	241.20	no	UMC 98
bnl5.02a		5.03	241.20	yes	IBM2
umc166a		5.03	241.20	no	UMC 98
umc83b	C	5.03	241.20	no	UMC 98
csu580b(mdh)		5.03	241.20	no	UMC 98
bnlg2309		5.03	241.25	no	BNL 2002
umc1048	AC	5.03	242.60	yes	IBM2
umc1557	C	5.03	245.10	no	IBM2
umc2294	AC	5.03	245.50	no	IBM2
umc1447	AC	5.03	247.60	yes	IBM2
AY109995		5.03	250.30	no	IBM2
AY109606	C	5.03	250.30	no	IBM2
cpn1	C	5.03	251.24	no	UMC 98
rz561b		5.03	251.24	no	UMC 98
cdo475d		5.03	251.24	no	UMC 98
uky2(P450)		5.03	251.24	no	UMC 98
px13	AC	5.03	251.59	no	SSR popl
lim175		5.03	254.00	yes	IBM2
bnlg1700		5.03	255.13	no	BNL 2002
hag101		5.03	256.10	no	ChromDB
std2b(dba)		5.03	256.76	no	UMC 98
rz892b(alt)		5.03	256.76	no	UMC 98
umc2295	C	5.03	257.80	yes	IBM2
umc1315	AC	5.03	260.20	yes	IBM2
umc1274	C	5.03	263.13	no	SSR popl
umc1151	AC	5.03	263.82	no	SSR popl
ufg49		5.03	265.10	yes	IBM2
bnl5.27		5.03	265.80	no	BNL 2002
umc43		5.03	266.30	yes	IBM2
umc1830		5.03	266.30	no	IBM2
bnl6.10		5.03	266.30	yes	IBM2
rgpc1122e(rpL15)		5.03	266.30	no	UMC 98
umc2296	AC	5.03	267.50	no	IBM2
umc1935	AC	5.03	267.70	yes	IBM2
mmp8		5.03	269.10	no	IBM2
umc1850		5.03	270.10	no	SSR popl
npi256		5.03	270.23	no	BNL 96
rz242b		5.03	270.50	yes	IBM2
umc1692	AC	5.03	271.50	no	IBM2
umc1475	AC	5.03	271.50	no	SSR popl
csu419		5.03	273.55	no	UMC 98
ucr1b(eif)		5.03	273.55	no	UMC 98
xet1		5.03	273.70	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc1609	AC	5.03	275.90	yes	IBM2
uaz77		5.03	277.27	no	BNL 2002
umc1373		5.03	277.34	no	SSR popl
isu2192a		5.03	277.90	no	BNL 2002
umc2297	AC	5.03	279.10	yes	IBM2
umc1		5.03	280.80	yes	IBM2
cat1	C	5.03	280.80	no	UMC 98
csu338		5.03	280.80	no	UMC 98
npi275		5.03	280.80	no	BNL 2002
umc1784		5.03	281.00	no	SSR popl
umc1355	C	5.03	281.20	yes	IBM2
csu168a		5.03	281.54	no	BNL 2002
php20557b		5.03	281.90	no	IBM2
isu45b		5.03	282.00	no	IBM2
bnl1.380		5.03	283.22	no	BNL 2002
bnl7.43		5.03	283.44	no	BNL 2002
bnl6.22a		5.03	283.51	no	BNL 2002
mmp108a		5.03	284.30	yes	IBM2
umc1870	AC	5.03	285.50	no	IBM2
umc1731	AC	5.03	285.50	no	SSR popl
phi109188	AC	5.03	285.70	no	IBM2
bnl10.06		5.03	285.93	no	BNL 2002
ici287		5.03	285.93	no	BNL 96
ncr200b(rip)		5.03	286.28	no	UMC 98
umc1389	AC	5.03	286.50	yes	IBM2
umc1429	AC	5.03	286.60	no	IBM2
psr167		5.03	286.70	yes	IBM2
uaz186		5.04	287.94	no	BNL 2002
ncr(b70a)		5.03	288.49	no	BNL 2002
isu61e		5.03	288.70	no	IBM2
isu61c		5.03	288.90	no	IBM2
php15018		5.03	288.90	no	IBM2
php15024		5.03	289.30	yes	IBM2
ivr2		5.03	289.76	no	BNL 2002
npi213		5.03-5.04	290.08	no	BNL 2002
mmp154		5.03	290.20	no	IBM2
ufg60		5.03	291.20	yes	IBM2
uaz226(cat1)		5.04	291.83	no	BNL 2002
umc2063		5.03	292.60	no	SSR popl
AY104079	C	5.03	292.90	no	IBM2
umc1226	AC	5.03	292.96	no	SSR popl
gtc101		5.03	293.80	no	ChromDB
gtc102	C	5.03	293.80	no	ChromDB
uaz213a		5.04	294.85	no	BNL 2002
mmp58	C	5.03	295.00	yes	IBM2
bnlg150		5.04	297.40	no	BNL 2002
bnlg1902	AC	5.03	297.50	yes	IBM2
csu252a(cdc2)		5.03	297.73	no	UMC 98
knox6		5.04	298.03	no	BNL 2002
umc1110	AC	5.03	298.10	no	SSR popl
uwo4		5.04	299.25	no	BNL 2002
ncr(cat1)		5.03	299.25	no	BNL 96
csu720c		5.03	299.67	no	UMC 98
csu652(rpL27)	C	5.03	299.67	no	UMC 98
uaz275		5.04	301.60	no	UMC 98
umn388		5.04	301.60	no	UMC 98
bnl4.36	C	5.04	301.60	yes	IBM2
csu283b		5.04	301.60	no	UMC 98
csu305a		5.04	301.60	no	UMC 98
csu315a		5.04	301.60	no	UMC 98
csu670	C	5.04	301.60	no	UMC 98
csu660b	C	5.04	301.60	no	UMC 98
csu377b(ubi)		5.04	301.60	no	UMC 98
uaz132a(dts)		5.04	301.60	no	UMC 98
csu36b(rpL19)		5.04	301.60	no	UMC 98
csu774(hcb)	AC	5.04	301.60	no	UMC 98
sbp1		5.04	306.62	no	SSR popl
umc2066		5.04	306.62	no	SSR popl
umc2373		5.04	306.62	no	SSR popl
umc2400		5.04	306.62	no	SSR popl
umc1815	C	5.04	306.62	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc2298	AC	5.04	307.00	yes	IBM2
umc40		5.04	308.20	yes	IBM2
umc250		5.04	309.60	no	UMC 98
csu562b(ubi)		5.04	309.60	no	UMC 98
umc2299	AC	5.04	310.00	no	IBM2
mmp60		5.04	310.20	yes	IBM2
umc1563	C	5.04	311.30	no	SSR popl
umc2406	C	5.04	311.30	no	SSR popl
asg51a		5.04	312.80	no	UMC 98
bnlg1829c		5.04	312.80	no	IBM1
rz87(clp)		5.04	312.80	yes	IBM2
umc1283	AC	5.04	313.28	no	SSR popl
bnlg1892c	C	5.04	313.30	no	IBM2
umc1629		5.04	313.98	no	SSR popl
umc1860		5.04	313.98	no	SSR popl
umc1591	AC	5.04	314.10	yes	IBM2
umc1224		5.04	314.64	no	SSR popl
umc2300	AC	5.04	315.20	no	IBM2
umc2301	AC	5.04	315.30	no	IBM2
umc2302	AC	5.04	316.80	yes	IBM2
umc1060	AC	5.04	317.60	yes	IBM2
umc1162	AC	5.04	317.66	no	SSR popl
umc2407		5.04	317.99	no	SSR popl
umc1990		5.04	318.90	yes	IBM2
BE639933	C	5.04	320.10	no	IBM2
umc1747	C	5.04	321.00	yes	IBM2
bnlg603	AC	5.04	321.00	no	SSR popl
uwo7		5.04	321.39	no	BNL 2002
uwo6		5.04	321.39	no	BNL 96
a2	C	5.04	321.61	no	BNL 2002
isu2191j		5.04	321.62	no	BNL 2002
dupssr1		5.02	321.63	no	BNL 2002
bnl17.30a		5.04	321.90	no	BNL 2002
bnlg1287		5.04	321.94	no	BNL 2002
rny2(rita)		5.03-5.04	322.10	no	BNL 2002
bnlg1208	AC	5.04	323.10	yes	IBM2
php20589		5.04	323.70	no	IBM2
lim4		5.04	324.30	yes	IBM2
mip1		5.04	324.62	no	UMC 98
asg43	C	5.04	324.62	no	UMC 98
bnl7.71		5.04	324.62	no	UMC 98
csu241a		5.04	324.62	no	UMC 98
dupssr10	AC	5.04	324.62	no	UMC 98
csu862a(rpL11)		5.04	324.62	no	UMC 98
bnlg2323		5.04	328.50	yes	IBM2
bt1		5.04	328.99	no	BNL 2002
npi408		5.04	328.99	no	BNL 2002
npi424		5.04	328.99	no	BNL 2002
npi571		5.04	328.99	no	BNL 2002
npi449a		5.04	331.40	yes	IBM2
rz476b		5.04	331.80	no	IBM2
mmp19		5.04	332.70	no	IBM2
AY110906	C	5.04	336.50	yes	IBM2
ris1		5.04	336.77	no	BNL 96
npi(pmr15)		5.04	336.77	no	BNL 2002
AY105029	AC	5.04	338.00	no	IBM2
csu302		5.04	339.40	yes	IBM2
dpg15b		5.03-5.04	339.62	no	BNL 2002
chs572		5.04	339.68	no	BNL 2002
npi53b		5.04	339.68	no	BNL 2002
bnlg653		5.04	340.99	no	BNL 2002
npi104a		5.04	342.24	no	BNL 2002
uaz70a		5.04	342.67	no	BNL 2002
umc1092	C	5.04	342.70	no	SSR popl
umc1192	AC	5.04	342.70	no	SSR popl
bnl31a		5.04	342.90	no	BNL 2002
PCO103687	C	5.04	344.20	no	INDEL
umc1349	C	5.04	346.50	yes	IBM2
bnlg1063c	C	5.03	346.92	no	BNL 2002
AY109532	AC	5.04	351.20	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
mpik33a		5.04	352.45	no	BNL 2002
amp3		5.04	354.81	no	BNL 96
koln2a(hox)		5.04	357.72	no	BNL 2002
myb3		5.04	358.90	yes	IBM2
ici273b		5.04	358.99	no	BNL 2002
uaz131		5.04	363.14	no	BNL 2002
koln10a(hox2)		5.04	365.17	no	BNL 2002
umc1332		5.04	366.60	no	SSR popl
umc1221	AC	5.04	368.40	yes	IBM2
umc1975		5.04	370.79	no	SSR popl
csu308		5.04	371.20	yes	IBM2
csu765		5.04	371.20	no	UMC 98
dup(als2)		5.04	374.29	no	BNL 2002
uaz238(ppi)		5.04	374.29	no	BNL 96
uaz248b(his3)		5.05	375.52	no	BNL 2002
incw1	AC	5.04	376.40	yes	IBM2
csu600	AC	5.04	377.00	no	IBM2
umc1966	AC	5.04	377.90	no	IBM2
ucsd64h		5.04-5.05	379.13	no	BNL 2002
umc1482		5.05	383.80	yes	IBM2
npi295a		5.04	383.88	no	BNL 2002
bnl5.71a		5.05	387.00	yes	IBM2
mmc0081	AC	5.05	389.90	yes	IBM2
mpik14(Cin4)		5.05	390.91	no	BNL 2002
AY109682	AC	5.05	392.70	no	IBM2
phi333597	AC	5.05	394.40	yes	IBM2
bnl35a(blr)		5.04	394.61	no	BNL 2002
umc1348		5.04-5.05	396.10	no	SSR popl
umc1937		5.04-5.05	396.10	no	SSR popl
umc1822		5.05	396.60	yes	IBM2
umc2026	AC	5.05	397.00	yes	IBM2
PCO060271	C	5.05	400.89	no	INDEL
mmp47	AC	5.05	402.20	yes	IBM2
ufg18	C	5.05	404.00	no	IBM2
bnl10.12		5.05	404.34	no	BNL 96
umc1264	AC	5.05	404.90	yes	IBM2
csu1080a		5.05	406.20	no	UMC 98
csu93b	C	5.05	406.20	no	SSR popl
PCO078116	C	5.05	408.36	no	INDEL
rz166(nac)		5.05	408.44	no	UMC 98
umc2303	AC	5.05	408.80	yes	IBM2
tda62a		5.05	410.01	no	UMC 98
std16b(blr)		5.05	410.01	no	UMC 98
umc1155	AC	5.05	410.80	yes	IBM2
csu713		5.05	412.18	no	UMC 98
csu95b	C	5.05	412.18	no	UMC 98
CL11475_1	C	5.05	413.29	no	INDEL
csu173	C	5.05	413.60	no	IBM2
gl8	AC	5.05	413.80	no	UMC 98
nbp35	C	5.05	413.80	yes	IBM2
rgpc174a		5.05	413.80	no	UMC 98
gte102		5.05	414.07	no	ChromDB
uaz79		5.05	414.13	no	BNL 2002
mmp90		5.05	414.70	yes	IBM2
PCO099796	C	5.05-5.06	415.78	no	INDEL
umc1800		5.05	415.95	no	SSR popl
CL16923_1	C	5.05-5.06	419.02	no	INDEL
mmc0282	AC	5.05	419.09	no	SSR popl
npi237		5.05	419.26	no	BNL 2002
umc2386	C	5.05	423.27	no	SSR popl
uaz261a		5.05	425.07	no	BNL 2002
uaz190(gpc)		5.05	425.07	no	BNL 96
bnlg1847		5.06	425.21	no	BNL 2002
serk2	C	5.05	428.30	yes	IBM2
umc1687	AC	5.05	429.19	no	SSR popl
pal1		5.05	436.68	no	UMC 98
asg71		5.05	436.68	no	UMC 98

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
csu1105		5.05	436.68	no	UMC 98
umc1502		5.05	439.29	no	SSR popl
bnlg278		5.05	441.69	no	SSR popl
umc1853		5.05	449.40	no	SSR popl
uaz164a		5.05-5.06	450.22	no	BNL 96
csu550		5.05	453.42	no	UMC 98
bnlg1237		5.05-5.06	454.01	no	BNL 2002
umc1722	AC	5.05	456.01	no	SSR popl
mmp104		5.05	457.40	yes	IBM2
bnl5.40		5.06	458.44	no	UMC 98
rpl19		5.05	461.79	no	UMC 98
AY110063	C	5.05	467.20	yes	IBM2
umc126a	C	5.06	469.60	yes	IBM2
AY109938	C	5.06	470.10	yes	IBM2
mmc0481	AC	5.06	476.60	yes	IBM2
umc2305	AC	5.06	479.70	no	IBM2
umc54	C	5.06	481.20	yes	IBM2
csu777		5.06	481.20	no	UMC 98
umc14c		5.06	481.20	no	UMC 98
umc155b	C	5.06	481.20	no	BNL 2002
cdo395b(ypt)		5.06	481.20	no	UMC 98
nfd104a		5.06	483.73	no	ChromDB
umc1752	AC	5.06	488.40	yes	IBM2
uaz78		5.05	489.59	no	BNL 2002
npi562		5.06	491.49	no	BNL 2002
umc1941	AC	5.06	492.60	no	IBM2
umc141		5.06	493.26	no	UMC 98
umc1524	AC	5.06	493.50	yes	IBM2
umc1680	AC	5.06	493.50	yes	IBM2
umc51a	AC	5.06	493.70	no	IBM2
csu434		5.06	493.96	no	UMC 98
csu440	C	5.06	493.96	no	UMC 98
php20531		5.06	494.20	yes	IBM2
bnlg1246a		5.05	495.77	no	BNL 2002
csu10a(cycll)		5.06	496.87	no	UMC 98
uaz138c		5.06	497.13	no	BNL 2002
csu26c(ant)		5.05	498.71	no	BNL 2002
npi458a		5.06	499.70	yes	IBM2
zag5		5.06	499.95	no	BNL 2002
umc2306	AC	5.06	500.10	yes	IBM2
rgpg57		5.06	500.57	no	UMC 98
umc262		5.06	500.57	no	UMC 98
umc253a		5.06	500.57	no	UMC 98
bnlg609	AC	5.06	500.70	yes	IBM2
uaz215a(odo)		5.06	500.70	no	BNL 2002
asg81a		5.06	504.54	no	UMC 98
csu587b		5.06	504.54	no	UMC 98
csu615a	AC	5.06	504.54	no	UMC 98
uaz204		5.06	510.88	no	BNL 2002
PCO111982	C	5.06-5.07	511.07	no	INDEL
rz567a(klc)	C	5.06	511.30	yes	IBM2
ici229		5.06	511.87	no	BNL 96
php20566		5.06	512.00	yes	IBM2
sdg117b	C	5.06	512.00	no	ChromDB
uaz254a		5.06	515.75	no	BNL 2002
mmp169		5.06	516.30	yes	IBM2
umc2216		5.06	518.37	no	SSR popl
csu1164		5.06	520.10	no	UMC 98
csu643a		5.06	520.10	no	UMC 98
csu907b		5.06	520.10	no	UMC 98
rz273b(ant)		5.06	520.10	yes	IBM2
cdo507b(ant)		5.06	520.10	yes	IBM2
csu26a(ant)		5.06	520.10	no	UMC 98
uaz144b		5.06	524.40	no	BNL 2002
gln4	AC	5.06	528.70	yes	IBM2
npi442		5.06	530.00	yes	IBM2
umc108	AC	5.07	536.60	yes	IBM2
bnl9.07b		5.07	536.60	no	BNL 2002
psr3b		5.07	537.57	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc2201	C	5.07	542.05	no	SSR popl
bnlg1346		5.07	544.64	no	BNL 2002
npi253c		5.07	550.21	no	BNL 2002
umc1537	AC	5.07	553.61	no	SSR popl
umc2198	C	5.07	554.92	no	SSR popl
klp5		5.07	555.46	no	UMC 98
asg84b		5.07	555.46	no	UMC 98
mpik10		5.07	557.09	no	BNL 2002
bnlg1306		5.07	557.09	no	BNL 2002
bnlg2305		5.07	557.09	no	BNL 2002
umc68a		5.07	557.09	no	BNL 96
umc241		5.07	559.61	no	UMC 98
umc1646		5.07	566.30	no	SSR popl
umc1375		5.07	571.66	no	SSR popl
umc2013		5.07	571.66	no	SSR popl
csu288		5.07	574.70	no	UMC 98
asg9b		5.07	578.47	no	UMC 98
lhcb4		5.07	578.47	no	UMC 98
ppp1	C	5.07	578.47	no	UMC 98
asg74a		5.07	578.47	no	UMC 98
cdo516a		5.07	578.47	no	UMC 98
csu1074		5.07	578.47	no	UMC 98
ucsd106e		5.05	583.55	no	BNL 2002
agrc563a		5.07	586.39	no	UMC 98
csu672a	C	5.07	586.39	no	UMC 98
wsu(nia5)		5.07	588.07	no	BNL 96
bnlg1118	AC	5.07	590.40	yes	IBM2
pbs6a		5.07	590.95	no	BNL 2002
bnlg1416		5.07	592.07	no	BNL 2002
nnr2		5.07	599.50	yes	IBM2
umc1072	AC	5.07	600.00	yes	IBM2
AY110369	AC	5.07	600.40	no	IBM2
mmp118		5.07	601.30	yes	IBM2
bnl5.24a		5.08	609.40	yes	IBM2
bnlg118	AC	5.08	609.40	yes	IBM2
bnlg1597c		5.08	613.80	yes	IBM2
ias13b		5.09	615.76	no	BNL 2002
mmp170		5.08	619.70	yes	IBM2
umc1792	AC	5.08	625.80	yes	IBM2
uaz71b		5.08	628.30	no	BNL 2002
AY110413		5.08	630.80	yes	IBM2
npi288a		5.08	632.60	yes	IBM2
umc57d		5.08	638.50	no	IBM2
php20523b		5.08	638.80	yes	IBM2
umc1225	AC	5.08	641.40	yes	IBM2
uaz240a		5.08	641.75	no	BNL 2002
AY110182	AC	5.08	643.60	no	IBM2
mmp175		5.08	645.40	yes	IBM2
got2		5.08	648.23	no	BNL 96
csu834(mss)		5.08	649.24	no	UMC 98
csu799(rpCL9)		5.08	656.15	no	UMC 98
AY105910	AC	5.08	656.70	yes	IBM2
bnlg1695		5.07	657.08	no	BNL 2002
bnlg1885		5.07	657.08	no	BNL 2002
csu695(rpL9)		5.08	657.14	no	UMC 98
umc104b		5.08	660.10	yes	IBM2
bnlg389		5.09	661.56	no	BNL 2002
rz446b		5.08	661.80	yes	IBM2
bnlg386		5.09	661.94	no	BNL 2002
AW065811		5.08	664.30	yes	IBM2
bnlg1711		5.07	666.54	no	BNL 2002
php10017	AC	5.09	669.40	yes	IBM2
umc1829		5.09	671.53	no	SSR popl
umc2307		5.09	672.60	yes	IBM2
umc2308	C	5.09	672.60	no	IBM2
mmp109		5.09	676.70	no	IBM1
umc1153	AC	5.09	676.70	yes	IBM2
umc2209	C	5.09	678.29	no	SSR popl
umc49f	C	6.00	0.00	yes	IBM2
csu150a		6.00	4.57	no	BNL 96
fdx2		6.00	9.10	no	SSR popl
isu139		6.00	17.30	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc2208		6.00	17.39	no	SSR popl
umc1143	AC	6.00	17.50	yes	IBM2
bnlg238		6.00	23.20	yes	IBM2
bnlg161b		6.00	23.20	yes	IBM2
csu926(frkl)		6.00	25.75	no	UMC 98
umc2310	AC	6.00	27.60	yes	IBM2
umc2309	AC	6.00	27.80	no	IBM2
PCO069699	C	6.00-6.01	39.27	no	INDEL
umc2068		6.00	47.80	no	SSR popl
agrp144		6.00	49.00	no	IBM2
uaz18a		6.00	51.97	no	BNL 2002
npi340a		6.00	51.97	no	BNL 96
rz143a(gpc)		6.00	56.70	yes	IBM2
rgpc174b		6.00	60.32	no	UMC 98
bnlg1433		6.01	60.64	no	BNL 2002
bnlg1246d		6.01	61.69	no	BNL 2002
bnlg1139		6.01	61.72	no	BNL 2002
csu178b		6.00	63.34	no	UMC 98
csu710d(apx)		6.00	63.34	no	UMC 98
AY110100	AC	6.00	63.60	yes	IBM2
umc1883		6.00	63.70	no	SSR popl
umc1996	C	6.00	63.70	no	SSR popl
mpik11b		6.01	64.87	no	BNL 2002
nor		6.01	64.87	no	BNL 96
mpik(DH7)		6.01	64.87	no	BNL 2002
uiu1b(pog)		6.01	64.87	no	BNL 2002
isu2232h		6.01	64.90	no	BNL 2002
bnlg2097		6.01	64.95	no	BNL 2002
csu70		6.01	66.40	no	UMC 98
umc159a		6.00	66.40	no	UMC 98
umc85a	AC	6.01	66.40	yes	IBM2
gpc2	AC	6.00-6.01	66.40	no	SSR popl
isu85a		6.01	67.70	yes	IBM2
pic7b		6.05	68.50	no	BNL 2002
uaz102		6.01	68.83	no	BNL 2002
bnl17.28		6.01	68.83	no	BNL 2002
umc1606	AC	6.01	69.20	yes	IBM2
sdg102b		6.01	69.20	no	ChromDB
hon104b	C	6.01	69.20	no	ChromDB
uaz269c(kri)		6.01	69.61	no	BNL 2002
umc1753	C	6.00-6.01	70.37	no	SSR popl
cdo1173c		6.01	71.10	yes	IBM2
uaz258a		6.01	71.20	no	BNL 2002
umc2311	AC	6.01	71.50	no	IBM2
mmp163		6.01	71.80	no	IBM2
bnlg1600		6.00	71.89	no	BNL 2002
bnlg1371	AC	6.01	72.70	yes	IBM2
bnl6.29a		6.01	73.30	yes	IBM2
bnlg1165		6.01	73.87	no	BNL 2002
npi235a		6.01	73.87	no	BNL 96
bnlg1043		6.00	73.94	no	BNL 2002
uaz150		6.01	74.80	no	BNL 2002
uaz197b(cdpk)		6.01	74.80	no	BNL 2002
isu1410b		6.01	75.39	no	BNL 2002
umc2312	AC	6.01	75.80	yes	IBM2
bnlg1867	AC	6.01	78.30	yes	IBM2
mmp13		6.01	79.60	no	IBM2
pge23		6.01	80.17	no	UMC 98
csu699		6.01	80.17	no	UMC 98
csu700		6.01	80.17	no	UMC 98
bnl7.28		6.01	80.17	no	UMC 98
bnlg426	AC	6.01	80.17	no	UMC 98
cdo580b(ivd)		6.01	80.17	no	UMC 98
umc1229	AC	6.01	80.70	yes	IBM2
umc1625		6.01	81.72	no	SSR popl
csu680e	C	6.01	83.27	no	UMC 98
uaz80(iron)		6.01	84.32	no	BNL 2002
bnlg1432		6.01	84.61	no	BNL 2002
tug2		6.01	84.61	no	BNL 96

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
php20528		6.01	85.50	yes	IBM2
rz390d(cyb5)		6.01	86.30	no	IBM2
isu1410j		6.01	86.50	no	BNL 2002
pic7a		6.01	86.54	no	BNL 2002
umc2196	C	6.01	86.83	no	SSR popl
cdo545		6.01	86.90	yes	IBM2
csu243		6.01	87.05	no	UMC 98
csu809		6.01	87.05	no	UMC 98
agrr221		6.01	87.05	no	UMC 98
csu1120		6.01	87.05	no	UMC 98
psr160a		6.01	87.70	no	IBM2
php20854		6.01	87.70	yes	IBM2
uaz197a(cdpk)		6.01	87.74	no	BNL 2002
npi594a		6.01	88.11	no	BNL 2002
umc2313	AC	6.01	91.90	yes	IBM2
pgd1		6.01	96.00	no	UMC 98
uck1	C	6.01	96.00	yes	IBM2
csu1187		6.01	96.00	no	UMC 98
csu1196		6.01	96.00	no	UMC 98
csu94a		6.01	97.38	no	UMC 98
umc36c		6.01	97.38	no	UMC 98
umc1832		6.01	97.80	no	IBM2
umc2074	AC	6.01	98.00	no	IBM2
umc1444	C	6.01	98.40	no	IBM2
AY110213	AC	6.01	98.40	no	IBM2
bnlg1641	AC	6.01	98.40	no	IBM2
umc1133	AC	6.01	98.60	yes	IBM2
umc2315		6.01	98.80	no	IBM2
umc2056	AC	6.01	99.00	no	IBM2
umc2314	AC	6.01	99.30	yes	IBM2
nfa101		6.01	99.30	no	ChromDB
uaz232b(sci)		6.01	100.30	yes	IBM2
zp15		6.01	100.91	no	BNL 2002
uaz23a		6.01	100.91	no	BNL 2002
bnlg249		6.01	100.91	no	BNL 2002
isu1774a		6.01	100.91	no	BNL 2002
npi606		6.01	100.91	no	BNL 96
mmp160		6.01	101.90	yes	IBM2
mmp76		6.01	103.80	yes	IBM2
umc1498	AC	6.01	104.45	no	SSR popl
ufg69	C	6.01	104.80	yes	IBM2
mmp20		6.01	105.90	yes	IBM2
bnl6.22b		6.02	107.37	no	UMC 98
csu56a(ohp)	C	6.02	107.37	no	UMC 98
csu146a(cdc48)		6.02	107.37	no	UMC 98
mmp10		6.01	110.40	yes	IBM2
cyc3	AC	6.01	114.25	no	SSR popl
mmp4		6.01	116.20	yes	IBM2
mmp108b		6.01	118.30	yes	IBM2
umc1517		6.01	119.19	no	SSR popl
umc1195		6.01	120.41	no	SSR popl
y1	AC	6.01	120.50	yes	IBM2
mpik33d		6.01	120.50	no	BNL 2002
si1		6.02	120.57	no	BNL 2002
bnlg1188		6.01	120.66	no	BNL 2002
rz444e	C	6.02	123.70	yes	IBM2
umc59a	AC	6.02	124.12	no	SSR popl
umc1376		6.01 - 6.02	124.12	no	SSR popl
enp1		6.02	124.50	no	UMC 98
agrr189		6.02	124.50	no	IBM2
csu548		6.02	124.50	no	UMC 98
oec33		6.02	124.60	no	UMC 98
csu395a	C	6.02	124.60	no	UMC 98
umc51b		6.02	124.64	no	UMC 98
umr361		6.02	124.64	no	UMC 98
bnlg1047b		6.01	124.77	no	BNL 2002
bnlg1422		6.01	124.81	no	BNL 2002
mpik1		6.02	124.87	no	BNL 2002
bnlg107		6.01	124.87	no	BNL 2002
bnl28(sbe1)		6.02	124.87	no	BNL 2002
umc1006	AC	6.02	125.00	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
csu183a(cdc48)		6.02	125.58	no	SSR popl
mir2	AC	6.02	126.46	no	SSR popl
bnlg1538		6.01	127.02	no	BNL 2002
npi373		6.02	127.02	no	BNL 96
mir1		6.02	127.10	yes	IBM2
mir4(thp)		6.02	127.10	no	UMC 98
uiu5(chn)		6.02	127.10	no	UMC 98
uiu6(chn)		6.02	127.10	no	UMC 98
ucr1a(eif)		6.02	127.10	no	UMC 98
rz242a		6.02	127.80	yes	IBM2
agrr87a		6.02	127.80	no	UMC 98
umc1083	AC	6.02	127.80	no	IBM2
psu1a(spe)		6.02	128.18	no	UMC 98
csu309(atpc)		6.02	128.57	no	UMC 98
pbs8		6.01	128.97	no	BNL 2002
phi077		6.01	129.05	no	BNL 2002
saur1		6.02	129.06	no	SSR popl
npi377		6.02	129.57	no	BNL 2002
bnlg2151		6.02	129.71	no	BNL 2002
mpik18		6.02	129.77	no	BNL 2002
uaz162		6.02	129.96	no	BNL 2002
umc1656	AC	6.02	133.40	yes	IBM2
mmp117		6.02	139.50	yes	IBM2
php20045a		6.02	142.12	no	BNL 96
mmp51		6.02	143.20	yes	IBM2
sdg102c		6.02	145.10	no	ChromDB
umc1257	C	6.02	145.70	yes	IBM2
umc1628		6.02	147.60	no	SSR popl
psr129b		6.02	147.90	yes	IBM2
bnlg2191	AC	6.02	148.70	no	IBM2
bnlg1753		6.01	148.86	no	BNL 2002
bnlg391		6.01	148.93	no	BNL 2002
uaz237b(prc)		6.01	148.95	no	BNL 2002
mwg645b		6.01	148.96	no	BNL 2002
uaz169		6.01	149.29	no	BNL 2002
bcd98f		6.01	149.32	no	BNL 2002
uaz233b(act)		6.01	149.32	no	BNL 2002
uaz233d(act)		6.01	149.32	no	BNL 2002
jpsb108		6.02	151.10	yes	IBM2
csu605		6.02	151.27	no	UMC 98
php06007		6.02	151.27	no	UMC 98
csu747b(arf)	C	6.02	151.27	no	UMC 98
mmp65		6.02	152.60	no	IBM2
sbp3	C	6.02	153.70	yes	IBM2
uaz227(end)		6.01	153.78	no	BNL 2002
npi100		6.00-6.01	154.86	no	BNL 2002
csu923(sec61)		6.02	158.70	yes	IBM2
npi393		6.03	161.87	no	SSR popl
umc2316	AC	6.02-6.03	166.60	no	IBM2
umc1887	AC	6.03-6.04	166.80	no	IBM2
AY104775	AC	6.04	167.60	yes	IBM2
uaz106a		6.03	169.35	no	BNL 96
csu226b(elf1A)		6.03	170.96	no	UMC 98
AY111964	AC	6.04	171.20	yes	IBM2
csu199a		6.03	172.41	no	UMC 98
bnl(tas1i)		6.04	173.71	no	BNL 2002
npi98b		6.03	175.68	no	BNL 96
umc65a	AC	6.04	181.90	yes	IBM2
std6b(dba)		6.03-6.04	181.90	no	UMC 98
umc1796		6.04	189.50	yes	IBM2
umc1918	AC	6.04	189.90	no	IBM2
rz476d		6.04	191.30	yes	IBM2
bnlg480		6.04	196.12	no	BNL 2002
npi223a		6.04	196.30	yes	IBM2
uaz160		6.04	196.66	no	BNL 2002
umc1105	AC	6.04	199.00	yes	IBM2
umc1979	AC	6.04	200.30	yes	IBM2
uaz161a(elf)		6.04	202.74	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc1857	AC	6.04	203.20	yes	IBM2
PCO075489	C	6.04	204.62	no	INDEL
rgpc74b		6.04	207.68	no	UMC 98
si606044D05	C	6.04	208.86	no	INDEL
umc113b		6.04	209.63	no	BNL 2002
pl1	C	6.04	211.50	yes	IBM2
gta105		6.04	212.56	no	ChromDB
mmc0523		6.04	219.51	no	SSR popl
tug8		6.04	223.54	no	BNL 96
umc2006	AC	6.04	228.90	yes	IBM2
pic2a		6.04	229.71	no	BNL 2002
umc248b		6.04	230.01	no	UMC 98
agrr118a		6.04	232.64	no	UMC 98
npi253d		6.04	235.26	no	UMC 98
rz144b	AC	6.04	235.26	no	UMC 98
umc2317	C	6.04	235.80	yes	IBM2
dzs23		6.04	235.98	no	BNL 96
dup1375		6.04	236.12	no	BNL 2002
umc1614		6.04	236.94	no	SSR popl
tda51		6.04	238.18	no	UMC 98
rgpc643e		6.04	238.18	no	UMC 98
uat2(noi)		6.04	238.18	no	UMC 98
isu61f		6.04	238.70	yes	IBM2
hex2		6.04	239.60	no	BNL 96
umc21		6.05	240.80	yes	IBM2
tug6		6.04	240.80	no	BNL 2002
npi617		6.04	240.80	no	BNL 2002
bnlg1617		6.05	240.80	no	BNL 2002
bnlg1922		6.05	240.80	no	BNL 2002
PCO152525	C	6.04-6.05	241.23	no	INDEL
isu111a		6.05	243.30	no	IBM2
csu578a		6.05	243.79	no	UMC 98
csu1083a		6.05	243.79	no	UMC 98
umc2318	C	6.05	244.70	no	IBM2
umc2319	AC	6.05	244.90	yes	IBM2
umc1795	C	6.05	245.29	no	SSR popl
chr117d		6.05	246.60	no	ChromDB
ufg11	C	6.05	248.10	yes	IBM2
umc2055		6.04-6.05	248.62	no	SSR popl
uaz280c(ppp)		6.05	251.70	yes	IBM2
asg52c		6.05	252.44	no	UMC 98
csu835		6.05	252.44	no	UMC 98
csu382a(cld)	AC	6.05	252.44	no	UMC 98
bnlg1154	AC	6.05	253.00	no	IBM2
npi265		6.05	253.00	no	BNL 2002
umc1250	AC	6.05	254.50	yes	IBM2
umc1751		6.05	254.50	no	SSR popl
ucsd78a(zag1)		6.05	255.65	no	BNL 2002
psr108		6.04	255.89	no	BNL 2002
tug7		6.04	256.39	no	BNL 2002
uaz244a(prh)		6.04	258.61	no	BNL 2002
ici96		6.04	258.87	no	BNL 2002
csu481		6.05	261.10	yes	IBM2
csu310(ptk)		6.05	262.11	no	UMC 98
PCO146525	C	6.05	262.46	no	INDEL
csu225		6.05	262.79	no	UMC 98
umc265(ptk)		6.05	263.97	no	UMC 98
bnl3.03		6.05	263.97	no	BNL 96
umc1826	C	6.05	267.70	yes	IBM2
zag1	AC	6.05	269.80	yes	IBM2
csu259		6.05	269.80	no	UMC 98
umc1352	C	6.05	271.50	yes	IBM2
npi224i		6.04	272.10	no	BNL 2002
Al665560	AC	6.05	273.20	no	IBM2
umc1413	AC	6.05	277.10	yes	IBM2
uaz220(elf)		6.05	277.33	no	BNL 2002
bnlg2249	AC	6.05	278.00	no	IBM2
bnl15.37a		6.05	279.83	no	BNL 2002
csu360(elf1A)	C	6.05	281.45	no	UMC 98
umc1114		6.05	281.70	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
pge20		6.05	282.07	no	BNL 2002
umc137b		6.05	283.65	no	BNL 2002
umc1314	AC	6.05	284.30	no	IBM2
csu1065		6.05	286.14	no	UMC 98
csu782	C	6.05	286.14	no	UMC 98
rgpc74a		6.05	286.14	no	UMC 98
csu1189		6.05	286.67	no	UMC 98
AY110542	AC	6.05	290.60	yes	IBM2
PCO134814	C	6.05	291.08	no	INDEL
dhn1	C	6.05	291.88	no	UMC 98
uky3b(P450)		6.05	291.88	no	UMC 98
csu116a(elf1)		6.05	291.88	no	UMC 98
ynh(me2)		6.05	293.69	no	BNL 96
umc2141	AC	6.05	295.40	yes	IBM2
AY110435	AC	6.05	296.30	no	IBM2
umc1379	C	6.05	297.10	yes	IBM2
npi560		6.05	299.20	yes	IBM2
ncr(sod3a)		6.05	299.24	no	BNL 2002
umc2040	C	6.05	299.26	no	SSR popl
csu71a		6.01	299.34	no	BNL 2002
csu236		6.05	301.80	no	UMC 98
csu60a		6.05	301.80	no	UMC 98
csu807b		6.05	301.80	no	UMC 98
npi294c		6.05	301.80	no	UMC 98
umc1388	C	6.05	302.00	yes	IBM2
mmp62		6.05	304.10	yes	IBM2
mmc0241	C	6.05	306.59	no	SSR popl
npi616a		6.05	308.30	yes	IBM2
AY110260	AC	6.05	310.70	yes	IBM2
npi252	AC	6.05	312.00	yes	IBM2
csu760a		6.05	312.07	no	UMC 98
umc46		6.05	312.07	no	BNL 96
bcd855b(ext)	C	6.05	312.07	no	UMC 98
csu666(his2A1)		6.05	312.07	no	UMC 98
dup400(pac)		6.05	313.32	no	BNL 96
jpsb107b		6.05	314.00	yes	IBM2
AY109873	C	6.05	314.80	no	IBM2
ufg16		6.05	315.40	no	IBM1
bnlg1174	AC	6.05	315.40	yes	IBM2
chs562		6.05	317.40	no	BNL 96
bnl17.26		6.05	317.44	no	BNL 2002
AY110050	AC	6.05	318.60	no	IBM2
umc2321	AC	6.05	319.00	no	IBM2
chr116a		6.05	319.50	no	ChromDB
bnlg1702		6.05	320.70	yes	IBM2
AY110873	AC	6.05	321.90	no	IBM2
csu812		6.05	322.67	no	UMC 98
umc2320	AC	6.05	322.90	yes	IBM2
csu1095		6.05	323.36	no	UMC 98
csu1101a		6.05	323.36	no	UMC 98
mbd101b	C	6.05	323.36	no	ChromDB
pdk1	AC	6.05	323.50	yes	IBM2
umc1462		6.06	325.10	no	SSR popl
pmg1	AC	6.05	325.90	yes	IBM2
rgpc43b		6.05	330.59	no	UMC 98
csu581b(tua)		6.05	330.59	no	UMC 98
umc2065	AC	6.05	335.71	no	SSR popl
npi608		6.05	342.70	yes	IBM2
npi63b		6.05	342.70	no	BNL 2002
bnl5.47a		6.05	344.42	no	BNL 96
umc1805		6.05	346.22	no	SSR popl
umc1474	AC	6.06	356.72	no	SSR popl
bnl8.06b		6.05	359.57	no	BNL 96
uaz400		6.05	362.00	no	IBM2
uaz121a		6.05	362.40	yes	IBM2
mmp145		6.05	367.40	yes	IBM2
bnl17.22		6.05	371.76	no	BNL 96
bnlg1732	C	6.05	373.80	yes	IBM2
rz444d	C	6.05	375.80	yes	IBM2
isu1410i		6.05	376.98	no	BNL 2002
mmp150		6.05	378.40	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
si606039C09	C	6.05-6.06	378.99	no	INDEL
uaz209		6.05	379.02	no	BNL 2002
umc152c		6.05	380.12	no	UMC 98
bnlg345		6.06	381.41	no	BNL 2002
umc38a	C	6.06	385.80	yes	IBM2
bnlg1443		6.05	385.80	no	BNL 2002
cdo89(aat)		6.05-6.06	385.80	no	UMC 98
bnl8.08c		6.06	387.24	no	BNL 2002
umc1912	AC	6.06	388.70	yes	IBM2
umc1859	AC	6.06	391.40	yes	IBM2
roa2	C	6.05-6.06	393.76	no	SSR popl
umc1463	C	6.06	393.90	yes	IBM2
uaz256		6.06	393.96	no	BNL 96
umc160a		6.06	393.96	no	BNL 96
umc1762	C	6.06	394.10	yes	IBM2
umc1424		6.06	396.06	no	SSR popl
CL10251_1	C	6.06	396.78	no	INDEL
dup1373		6.06	398.17	no	BNL 2002
umc2162	C	6.06	398.50	yes	IBM2
gtb101		6.06	399.20	no	ChromDB
sdg111a		6.06	399.20	no	ChromDB
asg50a		6.06	400.30	no	UMC 98
umc138a		6.06	400.30	no	UMC 98
ufr1(cal)		6.06	400.30	no	UMC 98
bcd738a(pgk)	C	6.06	400.30	yes	IBM2
mmp1		6.06	401.70	no	IBM2
umc2389	C	6.06	404.12	no	SSR popl
umc2322	C	6.06	404.40	yes	IBM2
AY104923	C	6.06	410.30	yes	IBM2
bnl8.08j		6.06	413.43	no	BNL 2002
npi280		6.06	413.43	no	BNL 96
umc1520		6.06	414.48	no	SSR popl
uaz19d		6.06	419.46	no	BNL 2002
csu727(trh)		6.06	419.46	no	UMC 98
lim379		6.06	420.40	yes	IBM2
php20904		6.06	421.90	no	UMC 98
lim151		6.06	423.00	yes	IBM2
gte101	C	6.06	423.70	no	ChromDB
uaz243b(atpb)		6.06	424.37	no	BNL 2002
uaz43e		6.06	426.38	no	BNL 2002
AY105728	AC	6.06	426.40	yes	IBM2
AY105785	C	6.06	427.20	yes	IBM2
psr162		6.06	428.40	yes	IBM2
umc2375	C	6.06-6.07	431.04	no	SSR popl
csu841a		6.06	433.05	no	UMC 98
umc2170	AC	6.06	435.10	yes	IBM2
bnl17.12		6.06	437.14	no	BNL 96
asg6a		6.06	441.80	yes	IBM2
hox2		6.06-6.07	444.20	no	UMC 98
umc237		6.06-6.07	444.20	no	UMC 98
umc132a(chk)	AC	6.07	444.20	yes	IBM2
umc1296		6.06-6.07	444.20	no	SSR popl
csu238b(apx)		6.06-6.07	444.20	no	UMC 98
hdt103	C	6.07	444.70	no	ChromDB
nfa102		6.07	447.90	yes	IBM2
mmp50		6.07	448.50	no	IBM2
umc266c(ptk)		6.07	450.13	no	UMC 98
phi299852	AC	6.07	450.70	yes	IBM2
mlg3	AC	6.07	452.70	yes	IBM2
bcd828b(atpb)		6.07	456.07	no	UMC 98
asg18		6.07	462.00	no	UMC 98
umc1490	AC	6.07	466.50	yes	IBM2
asg47		6.07	469.33	no	UMC 98
umc1897		6.07	471.61	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
AY110400	C	6.07	472.30	yes	IBM2
npi419a		6.07	481.00	yes	IBM2
csu928		6.07	482.25	no	UMC 98
umc2323	C	6.07	483.50	no	IBM2
umc1779	C	6.07	484.29	no	SSR popl
umc246		6.07	490.63	no	UMC 98
umc238a		6.07	490.63	no	UMC 98
umc1248		6.07	491.24	no	SSR popl
mmp113		6.07	491.80	yes	IBM2
AY109797	AC	6.07	498.70	yes	IBM2
AY104289	AC	6.07	501.20	yes	IBM2
umc2165	AC	6.07	502.90	yes	IBM2
bnlg1759a	AC	6.07	503.40	yes	IBM2
uaz81		6.06	503.87	no	BNL 2002
uaz269d(kri)		6.07	504.46	no	BNL 2002
idh2		6.07	504.59	no	UMC 98
npi597a		6.07	504.59	no	BNL 2002
umc1350	C	6.07	504.80	yes	IBM2
bnlg1740	C	6.07	510.60	yes	IBM2
csu291		6.07	511.22	no	UMC 98
csu293		6.07	511.22	no	UMC 98
umc62	C	6.07	513.80	yes	IBM2
ufg(vp2274b)		6.06	513.80	no	BNL 2002
AY109996		6.07	521.90	yes	IBM2
mdh2		6.07	524.83	no	UMC 98
umc1621	C	6.07	526.01	no	SSR popl
npi561		6.07	526.80	yes	IBM2
bnlg1136	C	6.07	531.80	yes	IBM2
php20599		6.07	532.80	yes	IBM2
umc133b		6.08	532.80	no	BNL 2002
mmp105		6.07	534.60	yes	IBM2
umc1653	C	6.07	534.60	no	IBM2
agp2	C	6.07	536.40	yes	IBM2
bnlg1521		6.07-6.08	537.12	no	BNL 2002
umc28		6.08	538.45	no	UMC 98
asg7a		6.08	538.45	no	SSR popl
uaz229		6.08	538.45	no	BNL 2002
ufg(agp1)		6.08	538.45	no	BNL 2002
uaz123c		6.07-6.08	538.45	no	BNL 2002
PCO068526	C	6.08	540.18	no	INDEL
umc1127		6.07-6.08	540.47	no	SSR popl
chr121		6.07	541.00	no	ChromDB
umc2059	AC	6.08	542.70	yes	IBM2
umc2324	AC	6.08	544.50	yes	IBM2
cdo345c	C	6.08	545.80	yes	IBM2
csu68a(mcf)		6.08	548.57	no	UMC 98
cdo202a(mcf)	C	6.08	548.70	yes	IBM2
umc134a		6.08	549.33	no	UMC 98
uaz240b		6.08	559.39	no	BNL 96
uor1a(rps12)		6.08	579.29	no	UMC 98
bnlg1642		7.00-7.01	-27.20	no	BNL 2002
umc7Stelo		7.00	-7.10	no	UMC 98
ucsd106b		7.00	-3.80	no	BNL 96
bnlg1686		7.00	-1.40	no	BNL 2002
bnlg1367	AC	7.00	-0.05	no	BNL 2002
umc2177		7.00	0.00	yes	IBM2
csu582		7.00	2.70	yes	IBM2
hsp3	AC	7.00	5.10	no	IBM2
bnl25		7.00	6.76	no	BNL 2002
npi576a		7.00	10.45	no	BNL 2002
umc1241	AC	7.00	13.80	yes	IBM2
npi567		7.00	14.80	no	BNL 96
umc1788	AC	7.00	19.90	no	SSR popl
umc1642	AC	7.00	27.20	no	IBM2
umc1378	AC	7.00	27.40	yes	IBM2
rs1		7.00	30.40	no	BNL 96
umc1672	AC	7.00	43.80	yes	IBM2
umc1694	C	7.00	45.00	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc1695	AC	7.00	45.60	no	IBM2
umc1426	AC	7.00	47.80	yes	IBM2
bnlg2132	AC	7.00	53.30	yes	IBM2
knox8b		7.00	55.07	no	UMC 98
rgpg124b	C	7.00	56.77	no	UMC 98
asg8(myb)		7.01	61.30	yes	IBM2
csu251a		7.00-7.01	61.30	no	UMC 98
mmc0171		7.00-7.01	66.28	no	SSR popl
usu1b(fnr)		7.01	67.63	no	UMC 98
si945036H05	C	7.01	68.06	no	INDEL
AY104465	AC	7.01	69.10	yes	IBM2
umc1840		7.00-7.01	70.67	no	SSR popl
php20581a(tb)		7.01	74.20	yes	IBM2
PCO143084	C	7.01	75.45	no	INDEL
bnlg1292		7.01	79.52	no	BNL 2002
cuny12		7.01	79.70	no	BNL 2002
AW308691	AC	7.01	86.30	yes	IBM2
hda110	C	7.01	89.96	no	ChromDB
umc1159	AC	7.01	92.00	yes	IBM2
isu84c		7.01	93.30	no	IBM2
uaz20b		7.01	96.92	no	BNL 96
csu486b		7.01	103.86	no	UMC 98
uaz83		7.01	106.73	no	BNL 2002
umc2364	C	7.01	107.65	no	SSR popl
mdh6		7.01	109.56	no	UMC 98
csu810b		7.01	109.56	no	UMC 98
npi400a		7.01	109.56	no	UMC 98
csu129	AC	7.01	109.56	no	UMC 98
rgpc1122b(rpL15)		7.01	109.56	no	UMC 98
umc1409	C	7.01	110.59	no	SSR popl
mmp18		7.01	113.40	yes	IBM2
umc2392		7.01	114.68	no	SSR popl
mmp81	AC	7.01	115.80	yes	IBM2
umc235		7.01	118.69	no	UMC 98
o2	AC	7.01	122.40	yes	IBM2
umc1270	C	7.01	123.50	yes	IBM2
his1a	C	7.01	125.20	yes	IBM2
umc1632	C	7.01	126.30	no	IBM2
csu611b(grp)		7.01	127.46	no	UMC 98
umc2325	AC	7.01	127.60	yes	IBM2
csu794		7.01	129.60	no	UMC 98
zds1		7.02	130.98	no	BNL 2002
hon102	C	7.01	131.10	no	ChromDB
asg34a(msd)	C	7.02	132.00	yes	IBM2
umc1428	AC	7.01-7.02	132.00	no	SSR popl
bnlg2160		7.01	132.76	no	BNL 2002
npi294b		7.02	140.01	no	BNL 2002
isu1410c		7.02	140.01	no	BNL 2002
ast(dcm1)		7.02	140.01	no	BNL 96
gta101a		7.02	148.50	yes	IBM2
AY109536	AC	7.02	151.50	yes	IBM2
ufg1		7.02	152.72	no	BNL 2002
uaz85		7.02	152.72	no	BNL 2002
uaz86		7.02	152.72	no	BNL 2002
uaz87		7.02	152.72	no	BNL 2002
uaz88		7.02	152.72	no	BNL 2002
in1		7.02	152.72	no	BNL 96
bnlg1003		7.02	152.72	no	BNL 2002
ucsd141a		7.02	152.72	no	BNL 2002
rmy(pcr)d		7.02	152.72	no	BNL 2002
bnl17.13a		7.01-7.02	152.72	no	BNL 2002
csu93d		7.01	152.93	no	BNL 2002
umc1401	AC	7.02	153.00	yes	IBM2
umc1986	AC	7.02	153.30	no	IBM2
umc1036	AC	7.02	153.95	no	SSR popl
umc2326	AC	7.02	154.80	yes	IBM2
mmp75		7.02	155.20	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
sdg101	C	7.02	155.20	no	ChromDB
mmc0162		7.02	155.50	no	IBM2
kpp1	C	7.02	155.80	yes	IBM2
umc1978	AC	7.02	156.90	yes	IBM2
bnlg398		7.02	157.38	no	BNL 2002
umc2327	AC	7.02	158.00	yes	IBM2
AY105589	AC	7.02	162.40	yes	IBM2
psu2(bZip)		7.02	164.66	no	UMC 98
csu4b		7.02	165.01	no	BNL 96
tug9		7.02	165.39	no	BNL 2002
npi600		7.02	167.40	yes	IBM2
zpl2b		7.02	167.40	no	BNL 2002
uaz64a		7.02	167.40	no	BNL 2002
uaz68a(zp19)		7.02	167.40	no	BNL 2002
umc1927		7.02	168.50	no	IBM2
umc1549		7.02	169.48	no	SSR popl
crt2	C	7.02	170.80	yes	IBM2
uaz7b		7.01	171.40	no	BNL 2002
tug5		7.02	171.70	no	BNL 2002
bcd98i		7.02	171.70	no	BNL 2002
uaz173		7.02	174.11	no	BNL 2002
npi568		7.02	175.17	no	BNL 96
uaz89		7.02	176.23	no	BNL 2002
AY110576	AC	7.02	176.80	yes	IBM2
npi367a		7.02	177.72	no	BNL 2002
uaz268b		7.02	177.72	no	BNL 2002
umc(nabp1)		7.02	177.72	no	BNL 2002
php20690b		7.01 - 7.02	177.72	no	BNL 96
AY110473	AC	7.02	178.00	no	IBM2
cyp6		7.02	179.90	yes	IBM2
tda45		7.02	179.90	no	UMC 98
npi294e		7.02	179.90	no	UMC 98
uaz352a		7.02	179.90	no	UMC 98
bcd1087b		7.02	179.90	no	UMC 98
bnl5.33g		7.02	179.90	no	UMC 98
csu848b(vpp)		7.02	179.90	no	UMC 98
bnlg1759b	AC	7.02	179.93	no	BNL 2002
ucsd81c(zag2)		7.02	180.26	no	BNL 2002
bnlg1094	AC	7.02	180.50	yes	IBM2
mmp187		7.02	181.30	no	IBM2
umc1433	AC	7.02	181.79	no	SSR popl
rz509a(mip)		7.02	181.96	no	UMC 98
psr371b		7.02	182.60	yes	IBM2
ufg121		7.02	183.10	no	IBM2
umc1879	AC	7.02	183.40	no	IBM2
umc1666		7.02	183.40	no	SSR popl
uaz187		7.02	183.70	yes	IBM2
mmp26		7.02	184.40	no	IBM2
umc270		7.02	184.70	no	UMC 98
rz698e(ppy)		7.02	185.00	no	IBM2
umc112b		7.02	185.16	no	UMC 98
uor1c(rpS12)		7.02	185.39	no	UMC 98
rz698d(ppy)		7.02	185.60	yes	IBM2
umc193c(orp)		7.02	185.62	no	UMC 98
bnlg1247	AC	7.02	186.30	yes	IBM2
epl101		7.02	186.30	no	ChromDB
vef101a	C	7.02	186.30	no	ChromDB
bnlg2233		7.02	186.50	yes	IBM2
bnlg1380	C	7.02	188.10	yes	IBM2
csu7a		7.02	188.73	no	BNL 96
zpc2		7.02	189.97	no	BNL 2002
ciw(S10)		7.02	190.16	no	BNL 2002
zp50		7.00-7.01	190.19	no	BNL 2002
bnlg1792	AC	7.02	190.40	no	IBM2
bnlg2203	AC	7.02	190.60	yes	IBM2
hag102	C	7.02	190.60	no	ChromDB
sdg110		7.02	190.70	no	ChromDB
mpik4a		7.02	190.78	no	BNL 2002
uaz19b		7.02	190.78	no	BNL 2002
npi596		7.02	190.90	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnlg1200		7.01	190.98	no	BNL 2002
AY109809	C	7.02	192.50	yes	IBM2
lim333		7.02	195.60	yes	IBM2
npi224a		7.02	197.63	no	BNL 96
uaz143		7.02	199.79	no	BNL 2002
umc1932	AC	7.02	204.80	yes	IBM2
CL4745_2	C	7.02	207.60	no	INDEL
ucsd107b		7.02	212.37	no	BNL 2002
chs606		7.02	212.84	no	BNL 2002
psr3a		7.02	212.88	no	BNL 2002
npi111		7.02	212.88	no	BNL 2002
npi221a		7.02	212.88	no	BNL 2002
bnl15.40		7.02	212.88	no	BNL 96
umc1339		7.02	214.12	no	SSR popl
uaz351a(rpS12)		7.02	215.06	no	UMC 98
bcd450c		7.02	215.54	no	UMC 98
gl1		7.02	217.75	no	BNL 2002
csu11		7.02	217.96	no	UMC 98
csu233		7.02	217.96	no	UMC 98
csu936		7.02	217.96	no	UMC 98
csu241c		7.02	217.96	no	UMC 98
csu281a		7.02	217.96	no	UMC 98
csu919b		7.02	217.96	no	UMC 98
uaz84		7.02	217.96	no	BNL 2002
csu81a(ank)		7.02	217.96	no	UMC 98
bnlg1579		7.03	220.72	no	BNL 2002
zpb36		7.02	227.28	no	BNL 96
AY109968	AC	7.02	228.70	yes	IBM2
umc1983	AC	7.02	244.30	yes	IBM2
umc2142	AC	7.02	246.30	yes	IBM2
umc1138	C	7.02	247.70	yes	IBM2
umc1929	AC	7.02	249.10	yes	IBM2
umc2057		7.02	249.87	no	SSR popl
npi112a		7.02	251.86	no	BNL 96
umc1787	AC	7.02	252.40	yes	IBM2
umc2092	AC	7.02	252.90	yes	IBM2
PCO115023	C	7.02	254.02	no	INDEL
umc1393	AC	7.02	258.40	yes	IBM2
umc258	C	7.02	259.00	no	IBM2
umc98b		7.02	259.00	no	UMC 98
bnlg1164		7.02	260.11	no	BNL 2002
umc1585	AC	7.02	261.03	no	SSR popl
npi47b		7.02	261.39	no	BNL 2002
umc5b	C	7.02	261.50	yes	IBM2
isu86		7.02	262.50	yes	IBM2
mmp21		7.02	265.30	no	IBM2
bnlg657		7.02	276.79	no	BNL 2002
bnlg1022a		7.02	277.98	no	SSR popl
umc1881		7.02	280.19	no	SSR popl
ufg54		7.02	280.50	yes	IBM2
ufg65	C	7.02	280.70	no	IBM2
cdo412b		7.02	285.40	yes	IBM2
bnlg1808		7.02	286.30	yes	IBM2
asg49	AC	7.03	286.57	no	SSR popl
uaz205c(hsp70)		7.02-7.03	286.57	no	UMC 98
dupssr11		7.02-7.03	287.70	no	BNL 2002
dupssr9		7.02-7.03	288.18	no	BNL 2002
umc116a		7.03	288.90	yes	IBM2
mmp127		7.03	290.20	yes	IBM2
mmc0411		7.03	292.70	yes	IBM2
umc1713	AC	7.03	298.40	yes	IBM2
php20569a	AC	7.03	300.00	yes	IBM2
umc1567		7.03	300.00	no	SSR popl
bcd926a	C	7.03	307.40	yes	IBM2
bnl15.21		7.03	309.90	yes	IBM2
bnl15.37b		7.03	310.09	no	UMC 98
bnl5.46c		7.03	310.60	no	IBM2
csu274(hsp90)		7.03	311.43	no	UMC 98
mmp177c		7.03	314.70	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
tda37b		7.03	314.87	no	UMC 98
csu395c	C	7.03	314.87	no	UMC 98
umc1450	C	7.03	315.90	yes	IBM2
umc1987	AC	7.03	318.00	yes	IBM2
mmp46		7.03	319.60	yes	IBM2
bnlg1070	AC	7.03	322.70	yes	IBM2
bnlg1305		7.03	322.77	no	BNL 2002
npi122		7.03	322.83	no	BNL 2002
bnlg434	AC	7.03	323.30	yes	IBM2
ijt	AC	7.03	324.42	no	UMC 98
umc222(fgh)		7.03	324.42	no	UMC 98
umc1333		7.03	325.00	no	SSR popl
csu296		7.03	327.48	no	UMC 98
umc1456		7.03	329.65	no	SSR popl
npi394	AC	7.03	330.60	yes	IBM2
mpik27b(zmm7)		7.03	333.28	no	UMC 98
uaz123d		7.03	334.64	no	BNL 2002
uaz118b		7.03	335.59	no	BNL 2002
csu253		7.03	336.64	no	UMC 98
bnlg339	AC	7.03	336.64	no	SSR popl
umc1718	C	7.03	338.66	no	SSR popl
PCO071075	C	7.03	342.21	no	INDEL
umc1275	C	7.03	344.76	no	SSR popl
brd103		7.03	344.80	no	ChromDB
mmp152		7.03	345.40	yes	IBM2
AY110374	AC	7.03	347.20	yes	IBM2
umc1660	C	7.03	351.40	yes	IBM2
sdg116a		7.03	353.60	no	ChromDB
rz596c		7.03	354.02	no	IBM1
npi389		7.03	354.90	yes	IBM2
npi455a		7.03	354.90	no	BNL 2002
umc1481		7.03	356.97	no	SSR popl
ucsd106g		7.03	358.39	no	BNL 2002
umc56	C	7.03	361.90	yes	IBM2
umc110a		7.03	364.80	yes	IBM2
umc1408	C	7.03	365.40	no	IBM2
umc1837	AC	7.03	368.90	yes	IBM2
csu820		7.03	369.88	no	UMC 98
csu1124		7.03	371.46	no	UMC 98
umc149a		7.03	372.10	no	UMC 98
rz404(ccp)	C	7.03	374.00	yes	IBM2
si614054G01	C	7.03	375.11	no	INDEL
bnl6.27		7.03	375.61	no	BNL 96
bnlg155		7.03	376.90	yes	IBM2
PCO101826	C	7.03	377.90	no	INDEL
umc111b(psy)		7.03	379.00	yes	IBM2
umc1865	AC	7.03	380.60	no	IBM2
umc1841		7.03	380.60	no	SSR popl
umc1134	AC	7.03	381.20	yes	IBM2
isu84a		7.03	381.50	no	IBM2
mmp194		7.03	381.50	no	IBM2
umc2328	AC	7.03	381.50	no	IBM2
AY109644	AC	7.03	381.50	no	IBM2
nfd101a		7.03	381.60	no	ChromDB
psr371a		7.03	381.80	yes	IBM2
ndk1		7.03	382.60	yes	IBM2
bnlg2271	C	7.03	383.80	yes	IBM2
npi283a		7.04	383.84	no	BNL 2002
umc2329	AC	7.03	384.40	no	IBM2
umc1112	AC	7.03	385.10	yes	IBM2
uaz91(ndk)		7.04	385.50	no	BNL 2002
uaz31c		7.04	385.74	no	BNL 2002
tum2		7.02-7.06	385.97	no	BNL 2002
csH2b(cdc2)		7.03	385.97	no	BNL 2002
bnl13.24		7.04	386.44	no	BNL 2002
umc1324	AC	7.03	387.50	yes	IBM2
umc1888	AC	7.03	390.50	yes	IBM2
oec6	AC	7.03	391.00	no	SSR popl
bnlg1805	AC	7.03	392.10	yes	IBM2
bnlg572		7.03	392.19	no	BNL 2002
uaz28a		7.04	392.46	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
npi435		7.04	392.71	no	BNL 96
isu150		7.03	393.10	yes	IBM2
uaz221(his2a)		7.03	393.61	no	BNL 2002
bcd249i		7.04	394.42	no	BNL 2002
uaz224(eif2)		7.02	394.42	no	BNL 2002
rz596a		7.03	395.26	no	IBM1
ias5		7.04	395.32	no	BNL 2002
tif1		7.03	399.30	yes	IBM2
ast(amyBS2)a		7.04	401.26	no	BNL 96
psr135a		7.03	403.40	yes	IBM2
umc1301	AC	7.03	405.50	yes	IBM2
umc1936	AC	7.03	405.50	yes	IBM2
umc1001		7.03	407.23	no	SSR popl
PCO102751	C	7.03-7.04	407.78	no	INDEL
umc254		7.04	408.10	yes	IBM2
asg5		7.03-7.04	408.10	no	UMC 98
bas1		7.03-7.04	408.10	no	UMC 98
csH14		7.03-7.04	408.10	no	UMC 98
rgpg20		7.03-7.04	408.10	no	UMC 98
bnl4.24		7.03-7.04	408.10	no	UMC 98
uor2(crp)		7.03-7.04	408.10	no	UMC 98
rz753(cdpk)		7.03-7.04	408.10	no	UMC 98
csu229a(oec)		7.03-7.04	408.10	no	UMC 98
cdo59a(gos2)	C	7.03-7.04	408.10	no	UMC 98
umc2330	C	7.04	408.40	no	IBM2
umc2331	C	7.04	408.40	no	IBM2
uaz90		7.04	409.99	no	BNL 2002
umc1710	C	7.04	410.50	yes	IBM2
umc1251	C	7.04	412.10	yes	IBM2
umc1684		7.03	414.15	no	SSR popl
asg32	C	7.04	416.50	yes	IBM2
csu847b(lhcb)		7.04	416.50	no	UMC 98
bnl5.21a		7.04	423.77	no	UMC 98
bnl5.61a		7.04	423.77	no	UMC 98
csu21d(ago)		7.04	423.77	no	UMC 98
umc2062		7.04	426.40	no	SSR popl
ufg17	C	7.04	427.50	yes	IBM2
AY110023	C	7.04	429.20	no	IBM2
bnlg1666	C	7.04	430.50	yes	IBM2
uaz117c		7.04	430.55	no	BNL 2002
uaz200		7.03	430.56	no	BNL 2002
uaz225(lox)		7.04	430.57	no	BNL 2002
npi413b		7.04	430.66	no	BNL 2002
bnlg1161		7.04	430.67	no	BNL 2002
uaz199		7.04	430.82	no	UMC 98
uaz207		7.04	430.82	no	UMC 98
csu213a		7.04	430.82	no	UMC 98
npi240a		7.04	432.30	yes	IBM2
npi263		7.04	433.20	yes	IBM2
tda66c		7.04	438.65	no	UMC 98
npi352		7.04	439.90	yes	IBM2
csu1055		7.04	440.22	no	UMC 98
csu818b(lhca)		7.04	440.22	no	UMC 98
chr111	C	7.04	441.90	no	ChromDB
bnl8.29c		7.04	442.30	yes	IBM2
umc1029	C	7.04	444.70	yes	IBM2
umc1342	C	7.04	444.70	no	SSR popl
tua6		7.04	447.27	no	UMC 98
bnl8.32		7.04	447.27	no	UMC 98
csu749a		7.04	447.27	no	UMC 98
umc125b		7.04	447.27	no	UMC 98
npi217		7.04	447.27	no	BNL 2002
uaz92		7.03	447.28	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
uaz922		7.03	447.28	no	BNL 2002
uaz233c(act)		7.03	447.28	no	BNL 2002
uaz82		7.03	447.43	no	BNL 2002
php20563a		7.04	449.33	no	BNL 2002
umc1593a		7.03	450.17	no	SSR popl
uaz123a		7.02	451.00	no	BNL 2002
bnlg1892a	C	7.04	452.76	no	BNL 2002
bcd249b		7.04	453.19	no	BNL 2002
ukd(hotr)		7.04	453.19	no	BNL 2002
rip2		7.04	453.91	no	SSR popl
e1		7.04	455.10	no	UMC 98
csu996		7.04	455.10	no	UMC 98
bnl7.61		7.04	455.10	no	UMC 98
bnl8.21a		7.04	455.10	no	UMC 98
bnl8.37a		7.04	455.10	no	UMC 98
bnl14.07	C	7.04	455.10	no	UMC 98
umc1543		7.04	457.44	no	SSR popl
mus1		7.04	459.33	no	BNL 2002
pge3		7.04	459.33	no	BNL 2002
ncr(b32c3b)		7.04	459.33	no	BNL 2002
isc(b32b)		7.04	459.33	no	BNL 96
uaz292(gdh)		7.04	464.18	no	BNL 2002
bcd349		7.04	464.50	yes	IBM2
npi398b		7.04	465.04	no	BNL 2002
umc1944		7.04	466.00	no	SSR popl
csu5	C	7.04	468.72	no	UMC 98
umc1708	C	7.04	471.40	yes	IBM2
rgpc12a		7.04	472.17	no	UMC 98
umc137d		7.04	472.17	no	UMC 98
csu175d(eif5A)		7.04	472.17	no	UMC 98
umc2332	C	7.04	472.60	yes	IBM2
phi328175	C	7.04	472.90	no	IBM2
AY110439	C	7.04	473.00	yes	IBM2
ufg79		7.04	473.40	no	IBM2
rgpr440b(gap)		7.04	475.40	no	UMC 98
bnl8.39		7.04	475.51	no	BNL 96
dupssr13		7.04	475.77	no	BNL 2002
csu8		7.04	476.00	yes	IBM2
rz395		7.04	476.00	no	UMC 98
umc1768	C	7.04	481.10	yes	IBM2
asg14a		7.04	487.51	no	UMC 98
asg36a		7.04	487.51	no	UMC 98
bnlg2259	C	7.04	489.20	yes	IBM2
umc1103	C	7.04	493.39	no	SSR popl
umc1295	C	7.04	494.80	yes	IBM2
csu906		7.04	497.10	no	UMC 98
ufg57	C	7.04	497.60	yes	IBM2
uaz119b(rpS6)		7.04	505.23	no	BNL 96
csu904		7.04	511.67	no	UMC 98
rgpr663b		7.04	511.67	no	UMC 98
csu597c(dah)	C	7.04	511.67	no	UMC 98
bnlg2328b		7.05	517.41	no	BNL 2002
AW267377	C	7.04	517.50	no	IBM2
umc1412	C	7.04	518.90	yes	IBM2
uaz241a		7.04	520.70	no	BNL 2002
uaz245(gbp)		7.04	520.70	no	BNL 2002
umc1125	C	7.04	522.79	no	SSR popl
umc80a		7.04	524.71	no	UMC 98
PCO136133	C	7.04-7.05	525.04	no	INDEL
PCO061754	C	7.04-7.05	529.89	no	INDEL
umc245		7.05	532.00	yes	IBM2
umc151		7.04-7.05	532.00	no	UMC 98
umc251		7.04-7.05	532.00	no	UMC 98
npi380		7.05	533.70	yes	IBM2
rgpr44c		7.05	535.19	no	UMC 98
php20523a		7.05	535.71	no	BNL 96
npi433		7.05	536.70	yes	IBM2
ias4b		7.04	536.70	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
npi385		7.04	536.96	no	BNL 2002
csu894b		7.05	537.27	no	UMC 98
npi113a		7.05	537.27	no	BNL 96
php20593		7.05	537.77	no	UMC 98
php20909b		7.05	538.70	yes	IBM2
npi300b		7.04	539.25	no	BNL 2002
asg28b		7.05	540.74	no	UMC 98
csu920b		7.05	540.74	no	UMC 98
bnl16.06		7.05	540.74	no	UMC 98
mmp67		7.05	540.80	no	IBM2
php20690a		7.05	542.71	no	UMC 98
csu1106		7.05	542.93	no	UMC 98
csu1097a		7.05	542.93	no	UMC 98
mmp25		7.05	543.40	no	IBM2
ncr(sod2)		7.05	543.51	no	BNL 2002
umc2368		7.05	544.55	no	SSR popl
phi069		7.05	545.20	yes	IBM2
umc1671	AC	7.05	547.28	no	SSR popl
umc45		7.05	547.30	no	UMC 98
umc91a		7.05	547.30	no	UMC 98
csu27	AC	7.05	547.30	no	UMC 98
csu578b		7.05	547.30	no	UMC 98
mmp17		7.05	547.70	no	IBM2
umc2379	C	7.05-7.06	555.46	no	SSR popl
bnl8.44a		7.05	558.45	no	UMC 98
csu163a	AC	7.05	558.45	no	UMC 98
std16c(blr)		7.05	558.45	no	UMC 98
umc1154	AC	7.05	558.55	no	SSR popl
csu632b		7.05	564.79	no	UMC 98
cdo38b(ntp)	AC	7.05	564.79	no	UMC 98
csu814a		7.05	568.07	no	UMC 98
bnlg469c	C	7.05	572.56	no	BNL 2002
pbs7		7.06	584.14	no	BNL 2002
cdo938d		7.05	586.60	yes	IBM2
umc2197	C	7.05	587.92	no	SSR popl
umc2333	AC	7.05	593.40	yes	IBM2
umc2222		7.05	598.35	no	SSR popl
umc1406	AC	7.05	598.90	yes	IBM2
umc35a	C	7.05	600.20	no	IBM1
umc1407	AC	7.05	600.20	yes	IBM2
umc2334	AC	7.05-7.06	600.40	no	IBM2
umc1799		7.04-7.06	600.79	no	SSR popl
ufg39	C	7.05	602.90	yes	IBM2
umc1760	AC	7.05	607.60	no	IBM2
umc168	AC	7.06	608.20	yes	IBM2
npi45b		7.06	608.20	no	BNL 2002
kin1		7.06	609.01	no	BNL 2002
phi116	AC	7.06	611.50	yes	IBM2
php20020		7.06	611.90	yes	IBM2
csu705		7.05-7.06	611.90	no	UMC 98
npi611a		7.06	614.80	yes	IBM2
php20728		7.06	615.42	no	BNL 96
abg373		7.06	616.31	no	BNL 2002
AY109703	AC	7.06	618.40	yes	IBM2
bnl(tas1j)		7.06	640.08	no	BNL 96
pbs13d		8.00-8.02	-43.20	no	BNL 96
cuny19		8.00	-35.19	no	BNL 2002
pbs6c		8.00	-34.86	no	BNL 2002
npi220a	C	8.01	0.00	yes	IBM2
csu891(rpL30)		8.00-8.01	0.00	no	UMC 98
csu597b(dah)	C	8.00-8.01	1.36	no	UMC 98
csu319		8.01	5.90	yes	IBM2
rz382b		8.01	6.70	yes	IBM2
npi114a		8.01	10.10	yes	IBM2
umc1786	C	8.01	10.58	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
rz995a(fbp)		8.00-8.01	10.68	no	UMC 98
csu312		8.00-8.01	11.56	no	UMC 98
npi222b		8.01	14.22	no	BNL 2002
csu1076		8.00-8.01	17.96	no	UMC 98
csu368(phr)		8.00-8.01	17.96	no	UMC 98
umc1139	AC	8.01	26.80	yes	IBM2
umc2042		8.01	30.30	yes	IBM2
mmp148		8.01	31.80	yes	IBM2
umc1592		8.01	33.80	yes	IBM2
bnl13.05c		8.01	36.48	no	SSR popl
mp2		8.01	40.68	no	UMC 98
csu29c	C	8.01	40.68	no	UMC 98
bnlg1252		8.00-8.01	42.39	no	BNL 2002
bnl8.08k		8.01	42.69	no	BNL 2002
bnl13.05a		8.01	44.40	yes	IBM2
umc1414		8.01	48.00	yes	IBM2
CL16874_1	C	8.01	49.05	no	INDEL
AY109699	AC	8.01	49.40	yes	IBM2
umc1327	AC	8.01	55.00	yes	IBM2
umc1075		8.01	59.88	no	SSR popl
ufg38		8.01	64.52	no	IBM1
ncr(sod3b)		8.01	70.23	no	BNL 96
ufg61		8.01	74.41	no	IBM1
csu332		8.01	74.41	no	UMC 98
mpik41b(mem1)		8.01	74.41	no	UMC 98
umc1483	AC	8.01	83.10	yes	IBM2
isu1410a		8.02	84.14	no	BNL 96
csu675b(prh)	C	8.01	98.40	no	UMC 98
mmp85		8.01	99.60	yes	IBM2
bnlg1194	AC	8.02	105.40	yes	IBM2
bnl9.11a(lts)	AC	8.02	106.40	no	SSR popl
umc2352	AC	8.02	107.30	yes	IBM2
hon107b	C	8.02	110.33	no	ChromDB
npi110a		8.02	112.00	yes	IBM2
npi218a		8.02	112.00	no	BNL 2002
bnlg2037		8.01	114.45	no	BNL 2002
cdo460		8.02	115.10	yes	IBM2
umc1817	AC	8.02	115.30	no	IBM2
rz543b	C	8.02	115.32	no	UMC 98
mmp57		8.02	116.40	yes	IBM2
bnlg1073		8.01	116.62	no	BNL 2002
mpik17d		8.02	126.57	no	BNL 2002
pic8b		8.02	127.80	no	BNL 2002
umc1304	AC	8.02	128.60	yes	IBM2
umc2004		8.02	131.95	no	SSR popl
bnlg2235	AC	8.02	132.40	yes	IBM2
bnlg1352		8.02	132.40	no	BNL 2002
rgpc131b	AC	8.02	133.53	no	UMC 98
chr117a		8.02	135.00	no	ChromDB
bcd1823b		8.02	135.60	no	IBM1
bcd1823a		8.02	135.60	yes	IBM2
AY106269	AC	8.02	136.80	yes	IBM2
mmp166		8.02	139.70	yes	IBM2
umc1790		8.02	142.80	no	SSR popl
umc103a		8.02	145.42	no	UMC 98
npi585a		8.02	149.00	yes	IBM2
npi276b		8.02	149.00	no	BNL 2002
csu949b		8.02	152.49	no	UMC 98
umc1974	AC	8.02	153.30	yes	IBM2
umc1872		8.02	153.30	no	SSR popl
hsp18c		8.02	155.66	no	BNL 2002
tpi3		8.02	156.27	no	BNL 2002
wusi1042		8.02	156.27	no	BNL 2002
psr598		8.02	156.60	yes	IBM2
cdo328	AC	8.02	159.20	yes	IBM2
umc1913	AC	8.02	160.80	yes	IBM2
bnl21		8.02	163.70	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
uaz252b(ptk)		8.03	164.29	no	BNL 2002
uaz243c(atpb)		8.03	164.29	no	BNL 2002
uaz251a(rpS11)		8.03	164.29	no	BNL 2002
bcd98b		8.02	169.48	no	BNL 2002
bnlg669		8.03	174.17	no	BNL 2002
bnlg1067		8.03	174.17	no	BNL 2002
umc1868		8.02	175.50	no	SSR popl
csu329		8.02	175.90	yes	IBM2
k1p1b		8.02-8.03	176.60	no	UMC 98
umc124a(chk)		8.03	176.60	yes	IBM2
umc1530	C	8.03	179.50	yes	IBM2
umc1778	C	8.03	180.53	no	SSR popl
mmp120		8.03	191.00	yes	IBM2
tda52		8.03	193.25	no	UMC 98
umc1034	AC	8.02-8.03	193.83	no	SSR popl
CL51477_1	C	8.03	193.96	no	INDEL
mmp72		8.03	194.10	yes	IBM2
csu849(atpb)		8.03	195.50	no	UMC 98
umc2147	AC	8.03	197.10	no	IBM2
mmp158b		8.03	197.90	yes	IBM2
umc2146	AC	8.03	198.40	no	IBM2
umc32b	C	8.03	199.10	yes	IBM2
bnlg2082	C	8.03	200.30	yes	IBM2
AW244963		8.03	202.00	yes	IBM2
umc2353	C	8.03	203.00	no	IBM2
AY110450	AC	8.03	203.00	no	IBM2
umc120a		8.03	203.60	no	IBM2
ksu1c		8.03	203.90	no	UMC 98
csu279		8.03	203.90	no	UMC 98
csu910		8.03	203.90	no	UMC 98
csu1175		8.03	203.90	no	UMC 98
umc236	C	8.03	203.90	no	UMC 98
umc238b		8.03	203.90	no	UMC 98
rz244a(dia)		8.03	203.90	yes	IBM2
umc206(hsp70)		8.03	203.90	no	UMC 98
bnlg1834	AC	8.03	204.80	yes	IBM2
chr110b		8.03	204.80	no	ChromDB
umc1807		8.03	205.80	yes	IBM2
umc1157	AC	8.03	206.00	yes	IBM2
umc1904	AC	8.03	206.60	yes	IBM2
npi260b		8.03	211.00	yes	IBM2
rpa5c		8.03	215.06	no	UMC 98
gpa1		8.03	215.11	no	UMC 98
lhcb3		8.03	215.11	no	UMC 98
tda164		8.03	215.11	no	UMC 98
rgpc161		8.03	215.11	no	UMC 98
cdo1160a(kri)	C	8.03	215.60	yes	IBM2
umc2354	C	8.03	216.20	no	IBM2
umc1910		8.03	216.90	yes	IBM2
asg24b(gts)	C	8.03	217.14	no	SSR popl
stp1		8.03	217.46	no	UMC 98
mmp195f		8.03	220.60	yes	IBM2
mpik35f		8.02	221.77	no	BNL 2002
cdo202e(mcf)	C	8.03	224.80	yes	IBM2
php3818		8.03	226.10	yes	IBM2
zmm2		8.02	226.26	no	BNL 2002
mpik12b		8.02	226.26	no	BNL 2002
mpik15d		8.02	226.26	no	BNL 2002
mpik15e		8.02	226.26	no	BNL 2002
mpik17c		8.02	226.26	no	BNL 2002
ucsd64b		8.02	226.26	no	BNL 2002
umc1415	C	8.03	228.60	yes	IBM2
umc1470	AC	8.03	231.20	yes	IBM2
umc2355	AC	8.03	232.90	no	IBM2
umc1984		8.03	234.80	yes	IBM2
umc1236	AC	8.03	239.99	no	SSR popl
AY103821	C	8.03	240.70	yes	IBM2
isu2191h		8.03	242.08	no	BNL 2002
bnl17.20		8.03	242.08	no	BNL 96
bnlg1229		8.03	242.12	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
pge2		8.03	242.85	no	BNL 2002
mdh1		8.03	243.50	no	BNL 2002
npi618		8.03	243.90	no	BNL 2002
pbs4		8.03	244.02	no	BNL 2002
ici277		8.03	244.02	no	BNL 2002
umc2075	C	8.03	244.90	no	IBM2
isu1719c		8.03	245.23	no	BNL 2002
isu2191b		8.03	245.23	no	BNL 2002
bnlg1863	AC	8.03	245.70	no	IBM2
tug1		8.03	245.73	no	BNL 2002
AY105457	AC	8.03	245.90	no	IBM2
bnlg1460		8.03-8.04	247.08	no	BNL 2002
uaz249c(ubf9)		8.03	248.61	no	BNL 2002
bnl9.44		8.03	251.01	no	UMC 98
ici286a		8.03	251.01	no	BNL 2002
ucsd61f		8.03	251.01	no	BNL 2002
niu1::Bs1		8.03	251.01	no	BNL 2002
uaz269a(kri)		8.03	251.01	no	BNL 2002
uaz290(SDAg)		8.03	251.01	no	BNL 2002
AY110032	AC	8.03	254.80	yes	IBM2
umc2366	C	8.03	257.31	no	SSR popl
rps28		8.03	257.67	no	SSR popl
umc1802		8.03	257.67	no	SSR popl
uaz244b(prh)		8.03	259.05	no	BNL 2002
uky3a(P450)		8.03	262.16	no	UMC 98
umc1617	C	8.03	262.74	no	SSR popl
csu760b		8.03	263.40	no	UMC 98
csu244(imp)		8.03	263.40	no	UMC 98
umc1377		8.03	263.76	no	SSR popl
umc1289	C	8.03	264.40	no	SSR popl
umc1385		8.03	265.51	no	SSR popl
umc1615		8.03	265.51	no	SSR popl
csu275a(mtl)		8.03	268.36	no	UMC 98
AY109740	AC	8.03	268.60	yes	IBM2
bnl1.45a		8.03	274.56	no	UMC 98
phi100175	AC	8.03	274.90	yes	IBM2
umc1735	AC	8.03	279.90	yes	IBM2
AY109626	AC	8.03	282.70	no	IBM2
umc1457	AC	8.03	284.60	yes	IBM2
umc1471		8.03	285.04	no	SSR popl
oec23		8.03	286.23	no	SSR popl
umc1302		8.03	287.42	no	SSR popl
uor1b(rpS12)		8.03	289.43	no	UMC 98
phi121	C	8.03	289.80	yes	IBM2
php20714		8.03	291.30	yes	IBM2
tub2	C	8.03	291.91	no	UMC 98
tda217e		8.03	293.15	no	UMC 98
mbd101a	C	8.03	294.20	no	ChromDB
bnl8.06a		8.03	294.24	no	BNL 96
umc2154	AC	8.03	295.30	yes	IBM2
dupssr3		8.03	296.42	no	BNL 2002
bnlg2289		8.02	297.68	no	BNL 2002
ncr(sod3c)		8.03	298.21	no	BNL 2002
uaz121b		8.03	299.32	no	BNL 2002
csu620		8.03	300.59	no	UMC 98
bnlg119		8.04	302.36	no	BNL 2002
uaz25a		8.03	302.65	no	BNL 2002
bnl9.08		8.03-8.04	303.04	no	BNL 2002
umc1460	AC	8.04	304.20	yes	IBM2
PCO147505	C	8.03-8.04	304.73	no	INDEL
umc1427	C	8.03	307.33	no	SSR popl
umc1487		8.03	307.33	no	SSR popl
bnl7.08a		8.04	309.27	no	SSR popl
umc1765		8.03	310.37	no	SSR popl
AY110056	AC	8.04	310.40	yes	IBM2
act1	C	8.03	311.97	no	BNL 2002
agrc1		8.04	312.38	no	UMC 98
umc1858	AC	8.04	312.40	yes	IBM2
ucsd106h		8.04	312.45	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
uaz202		8.04	312.90	no	BNL 2002
umc209(prk)		8.04	313.60	no	UMC 98
umc1343		8.04	314.51	no	SSR popl
bnlg2046	C	8.04	315.20	yes	IBM2
pdcl	C	8.04	315.20	no	SSR popl
ufg58	C	8.04	315.70	no	IBM2
bnl17.16(bt2)	C	8.03	315.87	no	BNL 2002
bnl10.39		8.03	316.22	no	BNL 2002
csu1101b		8.04	316.72	no	UMC 98
npi224c		8.04	316.94	no	BNL 2002
bnlg1446		8.05	316.94	no	BNL 2002
npi(pdk2)		8.04	316.94	no	BNL 2002
csu226a(elf1A)		8.04	319.39	no	UMC 98
AY104017	C	8.04	320.60	no	IBM2
wusl(pdc1)		8.04	320.63	no	BNL 2002
csu720a		8.04	322.95	no	UMC 98
gta101d		8.04	323.80	yes	IBM2
csu807a		8.04	323.95	no	UMC 98
uwm1a(uce)		8.04	324.06	no	UMC 98
csu179d(hsp70)		8.04	324.06	no	UMC 98
csu204(uce)		8.04	324.17	no	UMC 98
caat1		8.04	324.73	no	UMC 98
cdo1395e		8.04	324.73	no	UMC 98
csu254d		8.04	326.29	no	UMC 98
pge21		8.03	327.31	no	BNL 2002
sdg105a		8.04-8.05	327.47	no	ChromDB
sb32		8.04	328.29	no	UMC 98
csu9(cyc1)		8.04	328.40	no	UMC 98
bnl2.369	AC	8.05	329.40	yes	IBM2
rgpg81		8.04-8.05	329.40	no	UMC 98
umc1130		8.05	330.10	yes	IBM2
bnlg1176	C	8.05	330.40	no	IBM2
bnl24a		8.04	331.06	no	BNL 2002
ucsd113a		8.03-8.04	331.06	no	BNL 96
bnlg2313a		8.03	331.37	no	BNL 2002
hox1	AC	8.05	337.20	yes	IBM2
kohn2c		8.04-8.05	340.35	no	BNL 96
AY104566	AC	8.05	342.00	yes	IBM2
rop7		8.05	342.86	no	SSR popl
pdk2	C	8.04	343.02	no	UMC 98
npi294f		8.04	343.02	no	UMC 98
rip1	C	8.04	343.02	no	BNL 96
uaz147a		8.04	343.58	no	BNL 2002
npi224h		8.04	344.26	no	BNL 2002
umc2367		8.05	344.50	no	SSR popl
csu66b(hcb)		8.04	346.14	no	BNL 2002
bnlg1246c		8.05	346.35	no	BNL 2002
uaz165		8.04	346.73	no	BNL 2002
mmp15		8.05	348.20	yes	IBM2
umc1959	AC	8.05	352.20	yes	IBM2
csu841b		8.05	352.80	no	UMC 98
umc1562	AC	8.05	353.30	yes	IBM2
umc1263	AC	8.05	353.90	yes	IBM2
chr117b		8.05	353.90	no	ChromDB
jpsb107a		8.05	356.60	yes	IBM2
umc1846	C	8.05	357.90	no	IBM2
csu292		8.05	358.40	no	IBM2
ufg80	C	8.05	359.50	yes	IBM2
ici222		8.05	360.75	no	BNL 2002
mmp195b		8.05	361.20	no	IBM2
bnlg1812		8.05	362.52	no	BNL 2002
bnlg1599	C	8.05	362.71	no	BNL 2002
ucb(anp1)		8.05	362.71	no	BNL 2002
ufg74	C	8.05	363.40	yes	IBM2
bnl8.26		8.05	364.43	no	BNL 2002
umc160b		8.04	366.75	no	BNL 2002
bnlg2181	AC	8.05	366.80	no	IBM2
bnlg162	AC	8.05	367.00	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnlg666	AC	8.05	367.00	yes	IBM2
umc89a	C	8.05	369.60	yes	IBM2
umc12a	C	8.05	372.60	yes	IBM2
dgg9h		8.05	372.60	no	BNL 2002
knox5		8.05	372.60	no	BNL 2002
npi595		8.05	372.60	no	BNL 2002
mwg645k		8.04	372.60	no	BNL 2002
npi101b		8.05	372.60	no	BNL 2002
csu829		8.05	372.66	no	UMC 98
knox11		8.05	372.66	no	UMC 98
umc2c	C	8.05	372.66	no	UMC 98
csu1023		8.05	372.66	no	UMC 98
scri1(msf)		8.05	372.66	no	UMC 98
rgpc597(prs)		8.05	372.66	no	UMC 98
uaz233a(act)		8.05	372.66	no	BNL 2002
rz390b(cyb5)		8.05	372.67	no	UMC 98
dgg9a		8.05	372.70	no	BNL 2002
mwg645a		8.05	372.70	no	BNL 2002
cdo580a(ivd)		8.05	372.70	no	BNL 2002
uiu1c(pog)		8.05	372.75	no	BNL 2002
cdo708		8.05	372.84	no	BNL 2002
rz390a(cyb5)		8.05	373.50	no	IBM2
bnlg1651	AC	8.05	374.50	yes	IBM2
umc1889	AC	8.05	374.90	yes	IBM2
umc1712	C	8.05	374.90	no	SSR popl
umc2401	C	8.05	374.90	no	SSR popl
hdt102	C	8.05	374.90	no	ChromDB
umc1864		8.05	375.05	no	SSR popl
bcd134a		8.05	376.90	no	UMC 98
umc1340	AC	8.05	377.70	yes	IBM2
bnl12.36b		8.05	377.79	no	SSR popl
umc2378	C	8.05	377.94	no	SSR popl
umc1882		8.05	378.34	no	SSR popl
hda103		8.05	379.20	yes	IBM2
csu1041b(ptk)		8.05	381.20	no	UMC 98
umc1316	AC	8.05	381.70	yes	IBM2
isu114		8.05	382.70	yes	IBM2
chr112b	C	8.05	382.80	no	ChromDB
umc1777	AC	8.05	382.90	no	IBM2
uaz164b		8.05-8.06	383.08	no	BNL 2002
bnl12.30a		8.05	385.50	yes	IBM2
cdo455a	C	8.05	385.50	no	UMC 98
csu742a(rpS7)		8.05	385.50	no	UMC 98
umc2199	C	8.05	387.37	no	SSR popl
hon107a	C	8.05	389.60	no	ChromDB
umc1665		8.05	390.26	no	SSR popl
umc2210		8.05	390.26	no	SSR popl
uaz138b		8.06	391.16	no	BNL 2002
pic6b		8.05	394.24	no	BNL 2002
bnl17.01		8.06	394.69	no	BNL 96
umc1121	AC	8.05	395.86	no	SSR popl
umc1824b	C	8.05	397.86	no	SSR popl
umc1287	C	8.05	399.47	no	SSR popl
umc184c(glb)		8.05	400.68	no	UMC 98
umc93a		8.05	400.99	no	UMC 98
umc189(a1)		8.05	400.99	no	UMC 98
dba2		8.05	401.47	no	UMC 98
umn430		8.05	401.47	no	UMC 98
csu125b(cah)		8.05	401.47	no	UMC 98
csu31a	C	8.06	404.15	no	SSR popl
idh1		8.06	406.30	no	UMC 98
ici95		8.06	406.94	no	BNL 2002
pbs6b		8.06	406.94	no	BNL 2002
umc53b		8.06	406.94	no	BNL 2002
uaz176a		8.06	406.94	no	BNL 2002
isu1774b		8.06	406.94	no	BNL 2002
csu384		8.06	407.97	no	UMC 98
umc1670		8.06	408.29	no	SSR popl
umc1141	AC	8.05	408.69	no	SSR popl
umc2212		8.05	412.34	no	SSR popl
umc2356	C	8.05	412.90	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc1960	C	8.05	413.20	no	IBM2
umc1828		8.06	413.75	no	SSR popl
umc1149	C	8.06	413.90	yes	IBM2
sdg118	C	8.05	413.90	no	ChromDB
bnlg1152	C	8.06	414.10	no	IBM2
bnlg240	C	8.06	414.10	no	SSR popl
umc48a		8.06	415.59	no	UMC 98
csu110a		8.06	415.59	no	UMC 98
csu772b		8.06	415.59	no	UMC 98
PCO079694	C	8.06	415.69	no	INDEL
AY109883		8.06	415.70	no	IBM2
mmp32		8.06	416.00	no	IBM2
csu2c		8.06	420.83	no	UMC 98
ksu1d		8.06	420.83	no	UMC 98
umc30a		8.06	420.83	no	UMC 98
npi299		8.06	420.83	no	BNL 2002
uaz119a(rpS6)		8.06	421.48	no	BNL 2002
npi201b		8.06	421.73	no	BNL 2002
bnlg1782		8.05-8.06	422.30	no	BNL 2002
tum1		8.06	422.38	no	BNL 2002
bnl5.33d		8.06	423.69	no	UMC 98
aba2		8.06	425.84	no	UMC 98
rgpc112		8.06	426.32	no	UMC 98
uaz94		8.06	428.18	no	BNL 2002
pbs9a		8.06	429.37	no	BNL 2002
bcd134c		8.06	429.65	no	UMC 98
bnl17.17		8.06	430.33	no	BNL 96
umc117		8.06	431.08	no	UMC 98
umc71a		8.06	431.08	no	UMC 98
umc1728	AC	8.06	432.40	yes	IBM2
umc2031	C	8.06	432.63	no	SSR popl
hdt105		8.06	434.41	no	ChromDB
umc1161		8.06	434.55	no	SSR popl
ald1		8.06	436.56	no	UMC 98
asg17		8.06	436.56	no	UMC 98
umc84c	C	8.06	436.56	no	UMC 98
csu597e(dah)	C	8.06	436.56	no	UMC 98
asg1a		8.06	438.71	no	UMC 98
asg53		8.06	438.94	no	UMC 98
asg52a		8.06	438.94	no	UMC 98
umc1905	AC	8.06	439.60	yes	IBM2
sbe3		8.06	440.07	no	SSR popl
ksu1b		8.06	441.09	no	UMC 98
csu382b(cld)	C	8.06	441.09	no	UMC 98
rgpc198b(sik)		8.06	441.09	no	UMC 98
uaz95		8.06	443.40	no	BNL 2002
sps1	C	8.06	443.40	no	BNL 96
umc2037	AC	8.06	444.96	no	SSR popl
bnlg1607		8.06	445.76	no	BNL 2002
csu685		8.06	448.00	no	UMC 98
umc271		8.06	448.00	no	UMC 98
rgpc949		8.06	448.00	no	UMC 98
chr116b		8.06	448.94	no	ChromDB
umc2361	C	8.06	451.29	no	SSR popl
npi108b		8.06	451.50	no	BNL 96
mmc0181	AC	8.06	453.25	no	SSR popl
umc2395		8.06	453.45	no	SSR popl
uaz174		8.07	453.92	no	BNL 2002
bnlg1031	C	8.06	455.10	yes	IBM2
bnl10.24b		8.06	455.50	no	IBM2
cuny20(psy)		8.06-8.07	456.56	no	BNL 2002
umc1724	C	8.06	457.29	no	SSR popl
CL9311_1	C	8.06-8.07	457.57	no	INDEL
asg61b		8.06	458.21	no	UMC 98
bnl10.11		8.07	459.01	no	BNL 96
npi268a	C	8.07	459.20	yes	IBM2
bnl10.38c		8.06-8.07	459.20	no	UMC 98
bnlg1065	C	8.07	460.80	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc164a		8.07	460.87	no	BNL 2002
umc2014		8.07	463.03	no	SSR popl
rz538a		8.07	464.00	yes	IBM2
umc165b		8.07	464.03	no	UMC 98
rgpc86(ptk)	C	8.07	464.03	no	UMC 98
npi224b		8.08	464.38	no	BNL 96
csu254c		8.07	466.01	no	UMC 98
umc1607	C	8.07	466.50	yes	IBM2
bnlg1350b		8.07	466.93	no	BNL 2002
ucla(ofb3B)		8.08	472.87	no	BNL 2002
csu96b(psei)		8.08	472.87	no	BNL 96
bnlg1056		8.08	473.10	no	BNL 2002
umc7		8.08	473.49	no	UMC 98
npi438b		8.08	473.49	no	UMC 98
csu223a(psei)		8.08	473.79	no	UMC 98
uwo1		8.08	476.38	no	BNL 96
umc39b		8.09	477.61	no	BNL 2002
umc3a		8.09	482.43	no	BNL 96
cdo241b		8.08	482.84	no	UMC 98
bnlg1823	C	8.07	483.40	yes	IBM2
AY110569	C	8.07	486.90	no	IBM2
csu1155b		8.09	489.22	no	UMC 98
psy2	C	8.07	489.70	yes	IBM2
csu163b		8.07-8.08	490.27	no	BNL 2002
csu110c		8.07	490.63	no	UMC 98
umc266d(ptk)		8.07	490.63	no	UMC 98
AY110539		8.07	494.20	no	IBM2
umc1268	C	8.07	494.70	yes	IBM2
csu776a		8.07	494.71	no	UMC 98
csu38b(taf)		8.07	494.71	no	UMC 98
uwm1c(uce)		8.07	495.97	no	UMC 98
umc1055		8.07	496.12	no	SSR popl
csu179c(hsp70)		8.07	498.49	no	UMC 98
dupssr14		8.09	500.12	no	UMC 98
lim301		8.07	504.30	yes	IBM2
bnlg1828		8.07	506.80	yes	IBM2
umc1384		8.07	507.36	no	SSR popl
npi414a	AC	8.08	509.80	yes	IBM2
tpi5		8.07-8.08	509.80	no	BNL 2002
csu1155a		8.08	511.87	no	UMC 98
umc2357		8.08	514.20	no	IBM2
mmp64		8.08	515.00	yes	IBM2
umc82d		8.08	522.00	no	UMC 98
php20793		8.08	522.40	yes	IBM2
AY109593	C	8.08	524.60	yes	IBM2
umc1005		8.08	526.60	yes	IBM2
csu786(uce)		8.08	526.60	no	UMC 98
sb21		8.08	529.82	no	UMC 98
csu591(uce)		8.08	529.82	no	UMC 98
umc2218		8.08	533.24	no	SSR popl
csu165a		8.08	534.65	no	UMC 98
csu922(arf)		8.08	534.65	no	UMC 98
csh8a(cyc4)		8.08	536.96	no	UMC 98
umc1032		8.08	538.76	no	SSR popl
umc1933	AC	8.08	540.30	yes	IBM2
mmp146		8.08	544.70	yes	IBM2
umc2052		8.08	545.52	no	SSR popl
umc1673		8.08	546.90	yes	IBM2
AY110053	C	8.08	550.40	yes	IBM2
npi107		8.08	562.50	yes	IBM2
asg50b		8.08-8.09	562.50	no	UMC 98
npi112b		8.08	564.30	yes	IBM2
AY103806	C	8.08	569.00	yes	IBM2
gst1	AC	8.08	571.50	yes	IBM2
bcd98e		8.09	572.17	no	BNL 2002
uaz128		8.08	573.45	no	BNL 2002
umc4b	C	8.09	574.98	no	BNL 2002
csu146b(cdc48)		8.08	575.40	yes	IBM2
agrr21	AC	8.09	580.10	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
AY110127	AC	8.09	596.40	yes	IBM2
umc1663	AC	8.09	608.10	no	IBM2
phi233376	AC	8.09	609.10	yes	IBM2
umc1638	AC	8.09	621.60	yes	IBM2
umc1916		8.09	626.70	yes	IBM2
bnlg1131		8.09	628.20	yes	IBM2
AY109853	AC	8.09	632.00	yes	IBM2
agrr118b		9.00	-41.50	no	UMC 98
bnl9.07a		9.00	-11.20	no	UMC 98
umc1279	C	9.00	-7.60	no	SSR popl
umc1957	AC	9.00	0.00	yes	IBM2
umc109	AC	9.01	5.00	yes	IBM2
umc148		9.01	7.30	no	UMC 98
rz144a	AC	9.01	9.86	no	UMC 98
bnlg1724	AC	9.01	11.80	yes	IBM2
npi253a		9.01	14.00	yes	IBM2
umc2393		9.00-9.01	16.20	no	SSR popl
umc1370	C	9.01	17.70	yes	IBM2
rz144c	AC	9.01	20.10	no	UMC 98
umc1040	AC	9.01	21.20	no	IBM2
bnlg2122	AC	9.01	21.30	yes	IBM2
umc1867	AC	9.01	24.30	yes	IBM2
php10005		9.01	28.80	yes	IBM2
ucsd72f		9.01	32.83	no	BNL 2002
csu95a	C	9.01	41.68	no	UMC 98
umc248a		9.01	41.68	no	UMC 98
bnlg1288		9.01	43.23	no	BNL 2002
lim343		9.01	46.20	yes	IBM2
ufg41		9.01	50.40	yes	IBM2
gta106b		9.01	55.51	no	ChromDB
koln10b(hox2)		9.01	56.00	no	BNL 2002
bnlg1583	AC	9.01	62.30	yes	IBM2
bnlg1810	AC	9.01	62.30	yes	IBM2
mir3a(thp)		9.01	63.43	no	UMC 98
c1	C	9.01	64.70	yes	IBM2
koln2b(hox)		9.01	65.19	no	BNL 96
umc1809	C	9.01	65.20	yes	IBM2
isu1146		9.01	73.23	no	BNL 96
bnl17.11		9.01	73.23	no	BNL 96
umc2335	AC	9.01-9.02	74.80	yes	IBM2
bnlg1272		9.00	74.94	no	BNL 2002
umc113a		9.01	75.86	no	UMC 98
sh1	AC	9.01	80.30	yes	IBM2
umc1588	AC	9.01	82.30	yes	IBM2
umc1967	AC	9.01	84.30	yes	IBM2
umc2362		9.01-9.02	86.67	no	SSR popl
csu250b(aba)		9.01	86.72	no	UMC 98
umc1596	AC	9.01	86.80	yes	IBM2
bz1	AC	9.02	90.10	yes	IBM2
umc1958		9.01-9.02	90.10	no	SSR popl
umc1764	AC	9.02	94.28	no	SSR popl
umc1131	C	9.02	94.70	no	SSR popl
AY104252	AC	9.02	95.80	yes	IBM2
umc82a		9.02	96.33	no	BNL 2002
csu665b(adt)		9.02	99.07	no	UMC 98
dupssr6		9.02	101.00	no	SSR popl
umc1170	AC	9.02	101.10	yes	IBM2
chr113		9.02	103.86	no	ChromDB
csu471		9.02	105.80	yes	IBM2
csu466(lhcb)		9.02	105.80	no	UMC 98
asg82		9.02	106.01	no	UMC 98
asg19a		9.02	106.01	no	UMC 98
umc256a		9.02	106.01	no	UMC 98
bnl5.67b		9.02	106.01	no	UMC 98
csu733(rpL39)		9.02	106.01	no	UMC 98
csu651(rpL39)	C	9.02	106.01	no	UMC 98
umc1647		9.00	109.37	no	SSR popl
umc1430		9.02	115.36	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
csu486a		9.02	115.39	no	UMC 98
isu111b		9.02	116.60	yes	IBM2
agrc255b		9.02	124.37	no	UMC 98
csu1083b		9.02	124.37	no	UMC 98
umc2336	AC	9.02-9.03	125.70	yes	IBM2
umc2219	C	9.02	127.70	no	SSR popl
csu1077		9.02	130.49	no	UMC 98
umc1636	AC	9.02	131.10	yes	IBM2
npi266		9.02	134.12	no	BNL 96
prc1		9.02	134.57	no	UMC 98
rz2a		9.02	134.57	no	UMC 98
kfp1c		9.02	134.57	no	UMC 98
mpik11c		9.02	136.88	no	BNL 2002
mmp162		9.02	139.00	yes	IBM2
dup1379		9.02	139.47	no	BNL 2002
mpik19a		9.01	139.64	no	BNL 2002
ucsd62k(zag4)		9.02	142.12	no	BNL 2002
bnlg244	AC	9.02	142.60	yes	IBM2
bnlg1401	AC	9.02	147.50	yes	IBM2
mpik25(zmm3)		9.02	148.44	no	UMC 98
umc105a		9.02	152.93	no	UMC 98
mmp77		9.02	153.00	yes	IBM2
bnlg1372		9.02	155.16	no	BNL 2002
umc1037	AC	9.02	160.03	no	SSR popl
umc1893		9.02	161.33	no	SSR popl
mmp30		9.02	162.50	yes	IBM2
isu2191d		9.03	163.63	no	BNL 96
bnlg2107		9.02	167.99	no	BNL 2002
uaz237a(prc)		9.02	168.67	no	BNL 2002
umc1698		9.02	170.40	yes	IBM2
dup1384		9.02	172.42	no	BNL 2002
csu94b		9.02	173.33	no	UMC 98
cdo475a		9.02	173.33	no	UMC 98
csu228(pfk)		9.02	173.33	no	UMC 98
umc2213		9.02-9.03	176.14	no	SSR popl
dupssr19		9.02	176.32	no	BNL 2002
dpq1b		9.02-9.03	177.50	no	BNL 2002
npi300a		9.02	178.05	no	BNL 2002
bnlg1082		9.02	178.39	no	BNL 2002
bnlg1913		9.02	178.39	no	BNL 2002
d3	C	9.03	178.69	no	BNL 2002
bnl3.06		9.02-9.03	183.67	no	BNL 2002
mgs3	AC	9.02-9.03	184.17	no	BNL 2002
AY109531	C	9.02	185.20	yes	IBM2
csu616		9.02-9.03	189.65	no	UMC 98
tda66d		9.02-9.03	189.65	no	UMC 98
umc247		9.02-9.03	189.65	no	UMC 98
npi215a		9.02-9.03	189.65	no	UMC 98
umc253b		9.02-9.03	189.65	no	UMC 98
cdo590(ppr)		9.02-9.03	189.65	no	UMC 98
rgpr1908a(acb)		9.02-9.03	189.65	no	UMC 98
lim286		9.02	190.10	yes	IBM2
dhn2		9.03	190.16	no	BNL 2002
wx1	C	9.03	191.70	yes	IBM2
umc1634	AC	9.03	193.20	yes	IBM2
bnl5.21d		9.03	195.27	no	BNL 2002
umc273a		9.03	195.36	no	UMC 98
umc1258	AC	9.03	195.70	yes	IBM2
AY109570	AC	9.03	196.40	no	IBM2
hon104a	C	9.03	196.88	no	ChromDB
umc1586	AC	9.03	199.70	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
AY109816	C	9.03	200.40	no	IBM2
bnlg469a	C	9.03	200.41	no	BNL 2002
lim101		9.03	202.30	yes	IBM2
ufg71	C	9.03	204.40	yes	IBM2
mmp170b		9.03	208.50	yes	IBM2
PCO061815	C	9.03	209.97	no	INDEL
rf2		9.03	212.52	no	UMC 98
cdo17		9.03	212.52	no	UMC 98
csu680d	C	9.03	212.52	no	UMC 98
uwm1b(uce)		9.03	212.52	no	UMC 98
ucsd1.8a		9.03	214.22	no	BNL 96
psr160d		9.03	216.20	yes	IBM2
umc2338	AC	9.05	219.40	yes	IBM2
umc2337	AC	9.03	220.10	yes	IBM2
psr160c		9.03	220.70	yes	IBM2
chr120		9.03	221.80	no	ChromDB
bnl5.33c		9.03	222.36	no	UMC 98
bnl7.24a		9.03	222.36	no	UMC 98
umc2370	C	9.03	222.51	no	SSR popl
rz273c(ant)		9.03	223.90	yes	IBM2
rz953		9.03	226.30	yes	IBM2
umc81	C	9.03	226.30	yes	IBM2
csu321		9.03	226.30	no	UMC 98
pbs14b		9.03	226.30	no	BNL 2002
rgpr3235a	C	9.03	226.30	no	UMC 98
php20075b(ext)	C	9.03	226.30	no	BNL 2002
bnlg1626		9.03-9.04	226.88	no	BNL 2002
bcd1421		9.03	227.40	yes	IBM2
php20052		9.03	228.30	yes	IBM2
asg37		9.03	229.10	no	UMC 98
asg65a		9.03	229.10	no	UMC 98
asg66a		9.03	229.10	no	UMC 98
asg67a		9.03	229.10	no	UMC 98
bnl5.10		9.03	229.10	yes	IBM2
csu193		9.03	229.10	no	UMC 98
umc153		9.03	229.10	no	UMC 98
bnl26		9.03	229.10	no	BNL 2002
bnlg1730		9.03	229.10	no	BNL 2002
std6a(dba)		9.03	229.10	no	UMC 98
bnl5.46b		9.03	230.00	no	IBM2
umc1599	AC	9.03	230.10	no	IBM2
csu623	AC	9.03	230.60	yes	IBM2
umc1191	C	9.03	232.80	yes	IBM2
mmp2		9.03	235.50	yes	IBM2
umc1420		9.03	236.88	no	SSR popl
asg63a		9.03	238.00	yes	IBM2
umc2340	AC	9.03	238.40	no	IBM2
umc2339	AC	9.03	238.90	yes	IBM2
gtd101	C	9.03	238.90	no	ChromDB
umc1271	AC	9.03	240.50	yes	IBM2
si605086B11	C	9.03	242.58	no	INDEL
umc1691	AC	9.03	244.10	yes	IBM2
umc2412		9.03-9.04	247.06	no	SSR popl
umc1688	AC	9.03	247.60	yes	IBM2
acp1		9.03	249.20	no	UMC 98
umc20	C	9.03	249.20	yes	IBM2
asg68a		9.03	249.20	no	UMC 98
csu857		9.03	249.20	no	UMC 98
gl15	AC	9.03	249.20	no	UMC 98
pbs14d		9.03	249.20	no	BNL 2002
npi222a		9.03	249.27	no	BNL 2002
umc1921		9.03	249.60	yes	IBM2
uaz223(vpp)		9.03	250.40	no	BNL 2002
mwg645g		9.04	250.89	no	BNL 2002
uaz161b(elf)		9.03	251.65	no	BNL 2002
umc1700	AC	9.03	251.80	yes	IBM2
umc2087	AC	9.03	252.30	no	IBM2
npi454		9.03-9.04	253.02	no	BNL 2002
AW257883	AC	9.03	253.70	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnlg127		9.03	253.77	no	BNL 2002
umc1743	AC	9.03	254.00	yes	IBM2
umc114	C	9.03	254.30	yes	IBM2
AY103770	AC	9.03	254.60	no	IBM2
mmc0051		9.03-9.04	254.74	no	SSR popl
bnl5.04		9.03	256.10	yes	IBM2
csu181b		9.03-9.04	256.10	no	UMC 98
csu252b(cdc2)		9.03-9.04	256.10	no	UMC 98
csu179b(hsp70)		9.03-9.04	256.10	no	UMC 98
umc1267	AC	9.03	257.60	no	IBM2
rz682	C	9.03	258.20	yes	IBM2
csu147	AC	9.04	258.51	no	SSR popl
knox2		9.03	258.91	no	BNL 2002
bnlg430		9.03	258.91	no	BNL 2002
bnlg1687		9.03	258.91	no	BNL 2002
bnlg1688		9.03-9.04	259.76	no	BNL 2002
lim99b		9.04	259.80	yes	IBM2
fd1		9.03	261.09	no	BNL 2002
pic1a		9.04	263.11	no	BNL 96
umc2394		9.03-9.04	263.79	no	SSR popl
bnl7.13	C	9.04	264.90	yes	IBM2
hm2	C	9.03-9.04	264.90	no	UMC 98
csu254a		9.03-9.04	264.90	no	UMC 98
csu214a(grp)		9.03-9.04	264.90	no	UMC 98
csu778(hcb)		9.03-9.04	264.90	no	UMC 98
sbp4	C	9.04	266.00	yes	IBM2
bnlg1714		9.04	266.40	no	IBM2
isu2191k		9.03	266.46	no	BNL 2002
ici266		9.04	267.04	no	BNL 2002
lim166		9.04	268.40	yes	IBM2
csu263a		9.04	272.79	no	UMC 98
csu56d(ohp)	C	9.04	272.79	no	UMC 98
csu183b(cdc48)		9.04	272.79	no	SSR popl
bnlg1209	AC	9.04	273.20	yes	IBM2
umc1522		9.04	275.14	no	SSR popl
psr547		9.04	278.90	yes	IBM2
psr129a		9.04	283.10	yes	IBM2
uaz112		9.04	283.36	no	BNL 2002
umc2398		9.04	283.58	no	SSR popl
umc1107	C	9.04	285.80	yes	IBM2
bnlg1159b	C	9.04	287.00	yes	IBM2
pbs14c		9.04	287.79	no	BNL 2002
gta101c		9.04	290.10	yes	IBM2
bnlg1012	AC	9.04	298.00	yes	IBM2
umc1878		9.04	298.43	no	SSR popl
ufg66		9.04	300.00	no	IBM2
ufg73		9.04	300.00	no	IBM2
ufg70	C	9.04	300.20	yes	IBM2
ufg35a		9.04	300.60	no	IBM2
npi580a		9.04	302.30	yes	IBM2
csu43	C	9.04	302.89	no	UMC 98
csu557		9.04	302.89	no	UMC 98
rz251b		9.04	302.89	no	UMC 98
csu212a		9.04	302.89	no	UMC 98
csu404a		9.04	302.89	no	UMC 98
rgpc524		9.04	302.89	no	UMC 98
wsu1(ptk)		9.04	302.89	no	UMC 98
isu41a		9.04	304.90	yes	IBM2
ufg68		9.04	306.20	yes	IBM2
umc1492	AC	9.04	308.00	yes	IBM2
umc1120	AC	9.04	309.90	yes	IBM2
sus1	AC	9.04	311.50	yes	IBM2
npi293a		9.05	311.50	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
rgpr3239b		9.04	311.50	no	UMC 98
AY109764	AC	9.04	311.90	no	IBM2
uaz236a(ser)		9.04	312.12	no	BNL 2002
bnlg1270		9.05-9.06	312.20	no	BNL 2002
mmp96		9.04	312.50	yes	IBM2
mmp37		9.04	314.30	yes	IBM2
csu694a(uce)	C	9.04	315.56	no	UMC 98
umc2121	AC	9.04	315.70	yes	IBM2
umc38c	C	9.04	317.00	yes	IBM2
bnl7.50		9.04-9.05	317.01	no	UMC 98
umc1771	AC	9.04	317.27	no	SSR popl
bnl8.17	C	9.04	320.20	no	IBM2
umc95		9.05	320.60	yes	IBM2
umc1519		9.04	320.60	no	SSR popl
rgpr44b		9.04-9.05	320.60	no	UMC 98
uaz119c(rpS6)		9.04	321.79	no	BNL 2002
umc140b		9.05	321.90	yes	IBM2
umc1078	AC	9.05	322.60	yes	IBM2
lim458		9.05	324.20	yes	IBM2
ufg13a		9.05	326.00	yes	IBM2
ufg64		9.05	329.30	yes	IBM2
ufg63	C	9.05	331.20	yes	IBM2
umc1654		9.05	332.24	no	SSR popl
umc1387	AC	9.04-9.05	334.54	no	SSR popl
ufg48		9.05	335.80	no	IBM2
mmp153		9.05	336.10	no	IBM2
php20554		9.05	338.10	yes	IBM2
umc1357	AC	9.05	340.38	no	SSR popl
umc1231	AC	9.05	342.00	yes	IBM2
chr125a		9.05	343.10	no	ChromDB
mmp41		9.05	343.70	yes	IBM2
hsp18a		9.05	344.57	no	BNL 2002
umc1657	AC	9.05	344.80	no	IBM2
csu395b	C	9.05	348.57	no	UMC 98
mmp151d		9.05	348.80	yes	IBM2
dpg6c		9.05	350.07	no	BNL 2002
pge(phyB2)		9.05	350.07	no	BNL 96
bnlg1091		9.05-9.06	351.23	no	BNL 2002
mmp179		9.05	354.40	no	IBM2
uaz266b		9.04	356.53	no	BNL 2002
ncr(sod4b)		9.05	356.53	no	BNL 2002
rpa8		9.05	358.24	no	UMC 98
csu392a		9.05	358.24	no	UMC 98
csu355(ext)		9.05	358.24	no	UMC 98
ufg67		9.05	361.40	yes	IBM2
ufg47		9.05	362.20	yes	IBM2
uaz125		9.05	362.23	no	BNL 2002
AY109792	AC	9.05	369.30	yes	IBM2
csu710e(apx)		9.05	372.40	no	UMC 98
uaz264a		9.05	372.64	no	BNL 2002
AY110217	AC	9.05	373.20	no	IBM2
umc1494	AC	9.05	373.66	no	SSR popl
csu219(tgd)		9.05	376.55	no	UMC 98
csu58b		9.05	378.34	no	BNL 2002
umc2095	AC	9.05	378.90	yes	IBM2
umc2341	AC	9.05-9.06	381.10	yes	IBM2
ibp1		9.05	382.70	no	UMC 98
csu634	AC	9.05	382.70	yes	IBM2
bnl8.08d		9.05	383.14	no	BNL 2002
rz574b(cwp)		9.05	383.80	yes	IBM2
umc2344	AC	9.05-9.06	384.80	no	IBM2
umc2342	AC	9.05-9.06	384.90	no	IBM2
si687046G05	C	9.05	385.03	no	INDEL
umc2343	AC	9.05-9.06	385.30	no	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
npi427a		9.05	386.80	yes	IBM2
ufg24	C	9.05	392.50	yes	IBM2
umc2134		9.05	404.30	yes	IBM2
umc1732		9.05	405.02	no	SSR popl
npi443		9.05	409.90	yes	IBM2
umc1417	C	9.05	411.95	no	SSR popl
umc2371	C	9.05-9.06	418.60	no	SSR popl
umc1794	C	9.05	420.18	no	SSR popl
mmp142		9.06	421.60	yes	IBM2
csu59a	AC	9.05	425.25	no	UMC 98
csu61a	AC	9.06	425.25	no	SSR popl
csu145a(pck)		9.05	427.70	no	UMC 98
AY109550		9.06	429.70	no	IBM2
uaz96a		9.06	430.51	no	BNL 2002
npi439b		9.06	431.70	yes	IBM2
npi425d		9.05	433.35	no	UMC 98
mmp132		9.06	433.50	yes	IBM2
dba4		9.06	438.50	no	UMC 98
csu28a(rpS22)		9.06	438.50	no	UMC 98
asg44		9.06	441.20	yes	IBM2
mmp131		9.06	458.50	yes	IBM2
umc2346	C	9.06	461.60	yes	IBM2
bnlg292a	C	9.06	462.87	no	BNL 2002
csu93a	C	9.06	463.90	yes	IBM2
cdo1387a(emp70)		9.06	465.16	no	UMC 98
bnlg1191		9.07	467.46	no	BNL 2002
ufg75c		9.06	477.20	yes	IBM2
bnl7.57		9.06	480.19	no	BNL 96
mmp168		9.06	486.50	yes	IBM2
nfd104d		9.06	489.40	no	ChromDB
chs5046		9.05-9.06	489.80	no	BNL 2002
umc1366		9.06	489.90	yes	IBM2
umc2345	C	9.06	492.30	yes	IBM2
hb1	C	9.06	494.50	no	IBM2
bnl5.09a		9.06	500.10	yes	IBM2
uom1(hb)		9.06	500.17	no	UMC 98
uaz148		9.06	501.12	no	BNL 2002
bnlg1588		9.07	501.46	no	BNL 2002
mmp110		9.06	504.60	yes	IBM2
mpik28(zmm8)		9.06	508.79	no	UMC 98
AY110141	C	9.06	517.50	yes	IBM2
umc1310	AC	9.06	517.73	no	SSR popl
cdo1395a		9.06	519.32	no	UMC 98
umc2207		9.06	520.76	no	SSR popl
csu1004		9.06	525.07	no	UMC 98
AY109819	AC	9.06	526.00	yes	IBM2
csu877		9.06	528.90	no	UMC 98
bnl14.28a		9.06	528.90	yes	IBM2
npi403a		9.06	528.90	no	BNL 2002
isu49		9.06	530.80	yes	IBM2
umc2358		9.06-9.07	531.03	no	SSR popl
umc1789	AC	9.06	534.20	yes	IBM2
asg12	AC	9.07	536.10	yes	IBM2
npi209a		9.06-9.07	536.10	no	UMC 98
bnlg1525		9.07	536.65	no	BNL 2002
phi448880	AC	9.06-9.07	536.80	no	IBM2
AY109543	AC	9.07	538.50	yes	IBM2
umc1675		9.07	541.40	yes	IBM2
csu1005		9.07	541.42	no	UMC 98
csu860a		9.07	541.42	no	UMC 98
umc1804		9.07	542.26	no	SSR popl
npi291		9.07	542.48	no	BNL 96
std2a(dba)		9.07	544.97	no	UMC 98
bnlg1506		9.07-9.08	547.75	no	BNL 2002
dupsr29		9.07	550.43	no	BNL 2002
umc2359		9.07	550.46	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
bnlg1375		9.07	551.02	no	BNL 2002
AY110382	AC	9.07	551.30	no	IBM2
bnlg619	AC	9.07	554.40	yes	IBM2
csu870		9.07	554.44	no	UMC 98
csu1118		9.07	554.44	no	UMC 98
ucsd61b		9.07	554.57	no	BNL 2002
mmp136		9.07	556.40	yes	IBM2
umc2089	AC	9.07	562.70	yes	IBM2
umc2131	AC	9.07	566.80	yes	IBM2
umc1714	AC	9.07	567.30	no	IBM2
jpsb596		9.07	567.70	yes	IBM2
npi97b		9.07	571.04	no	BNL 96
mmp171a		9.07	577.20	yes	IBM2
umc2347	AC	9.07-9.08	578.60	no	IBM2
bnlg128	AC	9.07	585.93	no	SSR popl
AY106323	AC	9.08	587.90	yes	IBM2
csu50b		9.08	596.44	no	BNL 2002
dpg12c		9.08	601.89	no	BNL 2002
umc1137	C	9.08	603.50	yes	IBM2
csh2c(cdc2)		9.08	604.50	no	BNL 2002
asg59b		9.07	604.73	no	UMC 98
ucsd107a		9.08	606.53	no	BNL 2002
uaz31a		9.08	607.91	no	BNL 2002
umc94b		9.08	607.91	no	BNL 96
PCO127444	C	9.08	622.15	no	INDEL
rz632b		9.07	626.03	no	UMC 98
csu883(rpL21)		9.07	628.99	no	UMC 98
dmt103a	C	9.08	631.09	no	ChromDB
umc1982	C	9.08	633.20	no	IBM2
bnlg1129	C	9.08	633.60	no	IBM2
bnl1.297b		9.08	635.20	no	IBM1
umc1505	C	9.08	635.20	yes	IBM2
mmp53		9.08	636.20	no	IBM2
rz561c		9.07	636.68	no	UMC 98
umc272(vfa)		9.07	636.68	no	UMC 98
AI901738	C	9.08	637.10	yes	IBM2
AW216329	C	9.08	638.70	yes	IBM2
umc1104	AC	9.07	660.54	no	SSR popl
umc1942		9.07	678.34	no	SSR popl
std20a(uce)		9.07	686.38	no	UMC 98
csu285(his2B)		9.07	691.11	no	UMC 98
klp6		9.07	701.76	no	UMC 98
csu54b	C	9.08	708.86	no	SSR popl
umc1277	C	9.07-9.08	708.86	no	SSR popl
csu804a(dnp)		9.07-9.08	708.86	no	UMC 98
ucsd72b		10.00	-24.00	no	BNL 96
mmp48a		10.00	0.00	yes	IBM2
mmp48b		10.00	11.00	yes	IBM2
bnl10.17a		10.00	13.20	no	UMC 98
csu306(fer)		10.00	13.20	no	UMC 98
mpik13a		10.00	13.98	no	BNL 2002
umc1380	C	10.00	16.60	yes	IBM2
php20626		10.00	19.10	yes	IBM2
AY110060		10.00	22.30	yes	IBM2
psr119c		10.00	28.30	yes	IBM2
bnl3.04		10.00	29.60	yes	IBM2
php20725b		10.00	29.90	no	IBM2
php20753a		10.00	30.00	yes	IBM2
phi041	C	10.00	30.90	yes	IBM2
ksu1e		10.00-10.01	34.80	no	UMC 98
php20075a(gast)	C	10.01	34.80	yes	IBM2
umc1293	C	10.00	44.33	no	SSR popl
ksu1f		10.01	44.70	no	UMC 98
mpik33::cin4		10.01	48.08	no	BNL 2002
AW330564	AC	10.01	53.00	yes	IBM2
csu1061b		10.01	55.80	yes	IBM2
agrc561		10.01	57.15	no	UMC 98
umc1291	AC	10.01	58.76	no	SSR popl

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
csu136(plt)		10.01	61.94	no	UMC 98
umc1318	AC	10.01	62.41	no	SSR popl
AW225120	AC	10.01	64.10	yes	IBM2
csu1042		10.01	64.82	no	UMC 98
ksu2		10.01	71.20	no	UMC 98
ksu3		10.01	71.20	no	UMC 98
bnlg1451		10.02	74.44	no	BNL 2002
umc2053	AC	10.01	76.20	yes	IBM2
umc2018	AC	10.01 - 10.02	81.10	yes	IBM2
phi063		10.02	82.25	no	BNL 2002
umc1319		10.01	82.42	no	SSR popl
csu577		10.01	85.25	no	UMC 98
csu359(alp)		10.01	86.21	no	UMC 98
cd0127b(pyk)	C	10.01	86.21	no	UMC 98
npi285a(cac)	AC	10.02	91.00	no	IBM2
umc1152	AC	10.02	91.40	yes	IBM2
gdcp1	AC	10.02	97.90	yes	IBM2
umc1432	AC	10.02	99.63	no	SSR popl
uaz21c		10.01	100.78	no	BNL 2002
cr4	C	10.02	102.46	no	UMC 98
AY110360	C	10.02	104.00	yes	IBM2
ksu5		10.02	105.12	no	UMC 98
mmc0501	AC	10.02	106.70	no	SSR popl
umc2034	AC	10.02	120.10	yes	IBM2
agr714		10.02	121.64	no	UMC 98
csu250a(aba)		10.02	121.64	no	UMC 98
csu103a(aba)	C	10.02-10.03	123.02	no	BNL 96
rz400(gbp)		10.02	126.17	no	UMC 98
Al795367	AC	10.02	134.80	yes	IBM2
umc1582		10.02	138.79	no	SSR popl
tda217a		10.02	140.82	no	UMC 98
AY109994	C	10.02	142.00	yes	IBM2
umc1337	AC	10.02	143.30	no	IBM2
phi059	AC	10.02	143.50	yes	IBM2
uaz153		10.03	144.73	no	BNL 2002
isu85b		10.02	144.80	yes	IBM2
dpg3		10.03	144.92	no	BNL 2002
upen1		10.02	145.79	no	BNL 2002
rz900c(ahh)		10.02	146.80	no	IBM2
rz900b		10.02	146.80	no	ChromDB
ucsd72k		10.03	148.07	no	BNL 2002
ucsd72m		10.03	148.07	no	BNL 2002
umc152a		10.02	148.59	no	BNL 96
umc2114	AC	10.02	148.90	no	IBM2
csu561b		10.02	150.41	no	UMC 98
csu1054		10.02	155.74	no	UMC 98
umc2069		10.02	155.90	yes	IBM2
PCO062847	C	10.02-10.03	156.93	no	INDEL
umc130	AC	10.03	160.00	yes	IBM2
npi250a		10.03	160.00	no	BNL 2002
csu625		10.03	160.40	yes	IBM2
ov23		10.03	160.88	no	BNL 2002
bnlg1547		10.03	161.85	no	BNL 2002
uaz24a		10.03	161.97	no	BNL 2002
bnlg1085c		10.03	162.40	no	BNL 2002
uaz178		10.03	162.98	no	BNL 2002
ias13c		10.03	163.12	no	BNL 2002
npi105a		10.03	163.20	yes	IBM2
uaz97		10.03	163.20	no	BNL 2002
uaz98		10.03	163.20	no	BNL 2002
npi417b		10.03	163.20	no	BNL 2002
mpik41c(mem1)		10.03	163.20	no	UMC 98
uaz242(clp)		10.03	163.43	no	BNL 2002
umc18b(psaN)		10.03	164.10	yes	IBM2
umc1863		10.03	165.52	no	SSR popl
gcsh1	C	10.03	168.20	yes	IBM2
csu234b(gbp)		10.03	168.20	no	UMC 98
csu237a(psaN)		10.03	168.20	no	UMC 98
lim2		10.03	173.50	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
dpg5		10.03	176.43	no	BNL 2002
bcd1072b(hsp70)		10.03	177.50	yes	IBM2
glu1	C	10.03	178.60	no	UMC 98
csu1050		10.03	178.60	no	UMC 98
php06005		10.03	178.60	yes	IBM2
csu745c(rpPo)	C	10.03	178.60	no	UMC 98
php1		10.03	179.04	no	BNL 2002
npi98c		10.03	179.04	no	BNL 2002
npi327b		10.03	179.04	no	BNL 2002
npi597b		10.03	179.04	no	BNL 2002
bnlg1762		10.03	179.04	no	BNL 2002
umc(orp2)		10.03	179.04	no	BNL 2002
rz261a(sad)		10.03	179.90	no	UMC 98
rgpc1122d(rpL15)		10.03	179.90	no	UMC 98
rgpr440c(gap)		10.03	180.23	no	UMC 98
umc1785		10.03	180.24	no	SSR popl
umc1312	AC	10.03	180.24	no	SSR popl
umc1962	AC	10.03	180.70	yes	IBM2
umc1866		10.03	180.70	no	SSR popl
asg76a		10.03	182.18	no	UMC 98
zmm1		10.03	182.96	no	BNL 2002
eoh1		10.03	183.15	no	UMC 98
rgpc496c(adh)		10.03	183.15	no	UMC 98
bnlg210	AC	10.03	183.40	yes	IBM2
bnlg1037		10.03	183.41	no	BNL 2002
bnlg1716		10.03	183.41	no	BNL 2002
chs5008		10.03	183.44	no	BNL 2002
bcd98c		10.03	183.62	no	BNL 2002
bnlg2216		10.03	183.62	no	BNL 2002
umc1367	C	10.03	183.80	yes	IBM2
chr109a	C	10.03	183.80	no	ChromDB
csu213b		10.03	184.45	no	UMC 98
uaz116		10.03	184.70	yes	IBM2
sdg108b	C	10.03	184.90	no	ChromDB
php20646		10.03	185.10	yes	IBM2
umc1381	AC	10.03	187.00	yes	IBM2
ufg30a		10.03	188.80	no	IBM2
AY110411	C	10.03	191.20	yes	IBM2
AY105746	C	10.03	193.60	no	IBM2
umc2067	AC	10.03	194.50	no	IBM2
umc2016	AC	10.03	195.40	yes	IBM2
bcd147(gbp)	C	10.03	196.40	yes	IBM2
jpsb527c		10.03	197.90	yes	IBM2
umc1345	C	10.03	199.50	yes	IBM2
AY110248	C	10.03	200.50	yes	IBM2
ufg59	C	10.03	203.00	yes	IBM2
mmp63		10.03	204.80	no	IBM2
rps3		10.03	208.50	yes	IBM2
bnlg1079	AC	10.03	213.10	no	IBM2
umc1239	AC	10.03	213.30	yes	IBM2
psr690		10.03	215.80	yes	IBM2
npi445a		10.03	217.20	yes	IBM2
bnlg1712	AC	10.03	217.80	yes	IBM2
ensl003		10.03	217.80	no	BNL 2002
csh::stAc		10.04	219.25	no	BNL 2002
AY112073	AC	10.03	220.10	yes	IBM2
npi602		10.03	222.50	no	SSR popl
umc1938		10.03	222.50	no	SSR popl
mpik20b		10.03	225.11	no	BNL 2002
umc155	AC	10.03	225.70	yes	IBM2
AY111178	C	10.03	227.40	yes	IBM2
umc2349	AC	10.03-10.04	227.90	no	IBM2
umc1739	AC	10.03	228.00	no	IBM2
bnlg1655	AC	10.03	228.00	no	IBM2
umc1336	AC	10.03	228.30	yes	IBM2
umc2180	AC	10.03-10.04	228.30	no	IBM2
ncsu2		10.04	230.74	no	BNL 96
fgp1	C	10.03	234.30	yes	IBM2
umc64a		10.04	242.30	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
orp2		10.03-10.04	242.30	no	UMC 98
agrr62a		10.03-10.04	242.30	no	UMC 98
csu599b		10.03-10.04	242.30	no	UMC 98
umc243a		10.03-10.04	242.30	no	UMC 98
npi327a		10.04	242.39	no	BNL 2002
bnlg640	AC	10.03-10.04	242.39	no	SSR popl
uaz100(prl)		10.03	242.84	no	BNL 2002
bnlg2336		10.04	242.87	no	BNL 2002
bnlg1526		10.04	243.01	no	BNL 2002
acc1		10.04	243.12	no	BNL 2002
uaz99		10.04	243.18	no	BNL 2002
sad1		10.02	243.24	no	BNL 2002
uaz175a		10.04	243.29	no	BNL 2002
umc1873		10.04	243.57	no	SSR popl
uaz117b		10.04	243.61	no	BNL 96
csu815		10.04	244.19	no	UMC 98
csu913		10.04	244.19	no	UMC 98
csu929(his3)		10.04	244.19	no	UMC 98
uaz76b		10.04	244.26	no	BNL 2002
csu797(uce)		10.04	244.40	no	UMC 98
csu951(eno)		10.04	244.40	no	UMC 98
uaz228b(his2b)		10.05	244.48	no	BNL 2002
dupssr31		10.04	244.55	no	BNL 2002
umc2348	AC	10.03-10.04	244.60	no	IBM2
hcf106c		10.04	245.64	no	BNL 2002
umc1995	AC	10.04	245.90	yes	IBM2
csu898		10.04	246.51	no	UMC 98
nac1	AC	10.04	246.51	no	UMC 98
cdo1395b		10.04	246.51	no	UMC 98
umc1589	C	10.04	247.73	no	SSR popl
umc1824c	C	10.04	247.73	no	SSR popl
isu1719a		10.04	247.96	no	BNL 2002
umc1246	C	10.04	248.20	yes	IBM2
csu276		10.04	249.03	no	UMC 98
csu613(acb)		10.04	251.13	no	UMC 98
rgpr1908b(acb)		10.04	251.13	no	UMC 98
mmp16		10.04	251.60	yes	IBM2
csu46a		10.04	253.24	no	UMC 98
umc1077	AC	10.04	253.30	yes	IBM2
rz69	AC	10.04	253.40	no	IBM2
AY110514	AC	10.04	254.50	no	IBM2
amo1	C	10.04	256.18	no	UMC 98
csu298b		10.04	256.18	no	UMC 98
AY109920	C	10.04	256.80	yes	IBM2
AY109876	C	10.04	259.40	yes	IBM2
csu864		10.04	259.97	no	UMC 98
csu671b		10.04	259.97	no	UMC 98
mgs1	AC	10.04	260.50	yes	IBM2
csu333		10.04	260.60	no	UMC 98
tda205		10.04	260.60	no	UMC 98
psu1b(spe)		10.04	260.60	no	UMC 98
csu893(isp)		10.04	260.60	no	UMC 98
umc1836		10.04	261.80	no	IBM2
AY109584		10.04	261.90	no	IBM2
jpsb527d		10.04	264.20	yes	IBM2
npi305b		10.04	265.15	no	BNL 96
umc1827		10.04	267.28	no	SSR popl
mzetc34	AC	10.04	268.10	no	IBM2
PCO086427	C	10.04	268.32	no	INDEL
mmp121	AC	10.04	269.60	yes	IBM2
AY110365	AC	10.04	271.30	yes	IBM2
incw3	AC	10.04	272.20	yes	IBM2
umc1911	AC	10.04	273.60	yes	IBM2
bnlg2127		10.04	274.03	no	BNL 2002
npi264		10.04	274.10	no	IBM2
npi303		10.04	274.10	no	BNL 2002

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc1453	AC	10.04	274.40	no	IBM2
asg2	C	10.04	277.20	yes	IBM2
csu948		10.04	277.23	no	UMC 98
umc261		10.04	277.34	no	UMC 98
npi294h		10.04	277.63	no	UMC 98
AY109698	AC	10.04	280.70	yes	IBM2
umc2350	AC	10.04	283.50	yes	IBM2
bnlg137		10.05	285.73	no	BNL 2002
umc1330	C	10.04	287.90	yes	IBM2
gpa2		10.04	288.38	no	UMC 98
csu86	C	10.04	288.38	no	UMC 98
umc146		10.04	288.38	no	UMC 98
csu981(eif5A)		10.04	288.38	no	UMC 98
dpg6b		10.05	288.57	no	BNL 96
ufg1433		10.04-10.05	288.57	no	BNL 2002
umc1697	C	10.04	290.90	no	IBM2
php15013		10.04	291.60	yes	IBM2
ufg8(grf)		10.04	291.97	no	UMC 98
umc1280	C	10.04	292.26	no	SSR popl
grf2		10.04	292.87	no	UMC 98
PCO126344	C	10.04-10.05	294.80	no	INDEL
umc1115	C	10.04	295.90	yes	IBM2
umc159b		10.04	296.90	no	UMC 98
hag103b	C	10.04	298.04	no	ChromDB
umc1272	C	10.04	299.40	yes	IBM2
umc1648	C	10.04	299.80	no	IBM2
umc2003	AC	10.04	301.60	no	IBM2
std4(dba)		10.04	304.07	no	UMC 98
rz740(sam)		10.04	304.07	no	UMC 98
umc1930		10.04	306.90	yes	IBM2
php20719a		10.04	308.40	yes	IBM2
npi563		10.04	308.70	no	IBM2
umc1678		10.04	308.70	no	IBM2
umc259a	C	10.05	309.00	yes	IBM2
sam1		10.04-10.05	309.00	no	UMC 98
umc162a		10.04-10.05	309.00	no	UMC 98
umc163a		10.04-10.05	309.00	no	UMC 98
umc1507	AC	10.04-10.05	309.00	no	SSR popl
ufg7B		10.05	309.04	no	BNL 2002
npi582		10.04-10.05	309.07	no	BNL 2002
npi578		10.05	309.20	yes	IBM2
umc1898		10.05	309.91	no	SSR popl
umc1677	C	10.05	311.40	yes	IBM2
isu58b		10.05	315.20	yes	IBM2
npi269b		10.05-10.06	318.69	no	BNL 2002
AY110634	AC	10.05	319.50	no	IBM2
npi232a		10.05	323.05	no	UMC 98
PCO129934	C	10.05	324.99	no	INDEL
mmp12		10.05	327.30	yes	IBM2
PCO087182	C	10.05	328.44	no	INDEL
umc1402		10.05	330.98	no	SSR popl
umc2221		10.05-10.06	331.38	no	SSR popl
bnlg1074	AC	10.05	332.10	yes	IBM2
bnlg1250	AC	10.05	335.50	yes	IBM2
ufg81	C	10.05	341.10	yes	IBM2
AY110167		10.05	342.70	no	IBM2
csu745a(rpPo)	C	10.05	343.40	yes	IBM2
umc1506		10.05	344.80	yes	IBM2
ufg3b(ivr)		10.05	348.73	no	UMC 98
ufg37		10.05	352.40	yes	IBM2
ufg28a		10.05	352.40	yes	IBM2
ufg72		10.05	352.60	no	IBM2
umc1477	AC	10.05-10.06	366.30	yes	IBM2

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
umc44a	C	10.06	367.85	no	SSR popl
bnl17.08		10.06	372.35	no	BNL 2002
r1	C	10.06	373.11	no	SSR popl
umc1045	C	10.05-10.06	375.80	no	IBM2
umc57a	C	10.06	375.98	no	BNL 96
npi287b		10.06	376.04	no	BNL 2002
bnl10.13a	C	10.06	376.30	yes	IBM2
mmp71		10.06	376.90	no	IBM2
bnlg1028	C	10.06	380.50	yes	IBM2
por2	C	10.06	381.04	no	SSR popl
jpsb365a		10.06	383.40	yes	IBM2
bnlg594		10.06	386.06	no	SSR popl
csu615b	C	10.06	387.50	no	UMC 98
cdo1417b(ptk)		10.06	387.50	no	UMC 98
bnl17.02		10.06	387.90	yes	IBM2
bnl17.07		10.06	389.94	no	BNL 2002
uaz251c(rpS11)		10.06	390.27	no	BNL 2002
bnlg153		10.06-10.07	390.28	no	SSR popl
tip5	C	10.06	392.50	yes	IBM2
cpx2		10.06	393.75	no	BNL 2002
bnlg236		10.06	394.81	no	BNL 2002
ucsd(lfyA)		10.06	394.81	no	BNL 96
umc1993	AC	10.06	410.60	yes	IBM2
bnlg2190	AC	10.06	412.30	yes	IBM2
ufg56	C	10.06	414.10	no	IBM2
dmt102a	C	10.06	414.11	no	ChromDB
ias6b		10.06	416.42	no	BNL 2002
npi306		10.06	416.42	no	BNL 96
ufg62		10.06	416.60	yes	IBM2
kfp1f		10.06	418.25	no	UMC 98
npi290a		10.06	418.25	no	UMC 98
ufg15		10.06	422.70	no	IBM2
isu2192b		10.06-10.07	430.75	no	BNL 96
bnl7.49a(hmd)	AC	10.07	437.60	yes	IBM2
cdo244a(crp)		10.06-10.07	437.60	no	UMC 98
npi321a		10.07	439.27	no	BNL 2002
agrr37c	AC	10.07	442.20	yes	IBM2
rgpc285		10.07	442.78	no	UMC 98
umc1196	AC	10.07	444.80	yes	IBM2
umc1084	AC	10.07	445.70	yes	IBM2
npi421b		10.07	445.75	no	BNL 96
csu1039		10.07	447.96	no	UMC 98
bnlg1677	AC	10.07	449.30	yes	IBM2
csu1028(lhcb)		10.07	449.37	no	UMC 98

Locus	Contig	Bin	Coordinate, cM	Backbone	Source Map
AY110016	AC	10.07	450.80	yes	IBM2
rz590b		10.07	453.14	no	UMC 98
npi208b		10.07	454.60	yes	IBM2
mpik17f		10.00	454.69	no	BNL 2002
mpik12a		10.00	454.85	no	BNL 2002
mpik15f		10.00	454.99	no	BNL 2002
ucsd64d		10.00	454.99	no	BNL 2002
umc1249	C	10.06-10.07	456.65	no	SSR popl
mmp181		10.07	464.60	yes	IBM2
ufg75b		10.07	465.50	no	IBM2
asg50d		10.07	466.33	no	UMC 98
mir3c(thp)		10.07	466.33	no	UMC 98
bnlg1839	AC	10.07	466.40	yes	IBM2
bnlg279b		10.06	467.15	no	BNL 2002
umc1176		10.07	468.40	yes	IBM2
umc2351		10.07	469.40	no	IBM2
bnlg1360		10.07	469.70	yes	IBM2
bnlg2025		10.07	470.89	no	BNL 2002
npi254b		10.07	470.90	yes	IBM2
npi577b		10.07	470.90	no	BNL 2002
npi604b		10.07	475.10	no	BNL 2002
gin1	C	10.07	475.27	no	UMC 98
umc232		10.07	475.27	no	UMC 98
mwg645l		10.07	478.97	no	BNL 2002
csu300b		10.07	479.98	no	UMC 98
umc2203		10.07	481.42	no	SSR popl
umc1640	C	10.07	483.61	no	SSR popl
bnlg1450	C	10.07	483.70	yes	IBM2
umc1877		10.07	488.63	no	SSR popl
bnlg1518		10.04	490.55	no	BNL 2002
csu844		10.07	495.05	no	UMC 98
php20568a		10.07	496.60	yes	IBM2
crr2		10.07	505.50	no	SSR popl
umc2021	C	10.07	505.50	yes	IBM2
bnlg1185	C	10.07	505.93	no	BNL 2002
AY109829	AC	10.07	509.90	no	IBM2
umc2126	C	10.07	513.20	yes	IBM2
isu53b		10.07	522.60	yes	IBM2
asg19b		10.07	524.10	yes	IBM2
umc1038	AC	10.07	525.11	no	SSR popl
umc1556	AC	10.07	527.39	no	SSR popl
umc269(ptk)		10.07	527.55	no	UMC 98
csu781a	C	10.07	528.02	no	UMC 98
csu571b(ipp)		10.07	528.02	no	UMC 98
dba3		10.07	533.20	no	UMC 98
csu199d		10.07	533.20	no	IBM1
csu48	C	10.07	533.20	yes	IBM2
umc1645		10.07	578.09	no	SSR popl