

Warburton et al
Supplementary data S1
Filtering of 166 IRs

IR Name	FirstIndexLeft	LastIndexLeft	FirstIndexRight	LastIndexRight	arm length	Spacer	% identity	include in set, or reason for exclusion
IR1-0.53	477501	501983	561232	585124	24483	59248	77.51	spans gap in 1p36.33
IR1-12.95	12754897	12906065	12985533	13136766	151169	79467	99.82	spans gap in 1p36.21
IR1-16.41	16353201	16382007	16440609	16469432	28807	58601	99.45	include
IR1-25.09	25000512	25041812	25141086	25182230	41301	99273	97.80	spans gap in 1p36.11
IR1-25.13	25032486	25079605	25173446	25220558	47120	93840	99.59	spans gap in 1p36.11
IR1-25.23	25150226	25182230	25275544	25307515	32005	93313	96.80	collapse with IR1-25.228
IR1-25.23	25183473	25204891	25251938	25273348	21419	47046	97.11	include as IR1-25.228
IR1-103.53	103489364	103508355	103565678	103584608	18992	57322	98.49	exclude as part of AMY1,2 gene cluster
IR1-103.55	103513465	103524932	103582840	103594168	11468	57907	90.35	exclude as part of AMY1,2 gene cluster
IR1-103.552	103531252	103540589	103565678	103575134	9338	25088	89.43	exclude as part of AMY1,2 gene cluster
IR1-103.57	103535770	103565151	103581368	103610752	29382	16216	99.96	include as AMY1,2 gene cluster
IR1-103.59	103565678	103575134	103625377	103634727	9457	50242	89.53	exclude as part of AMY1,2 gene cluster
IR1-103.61	103575948	103610752	103629912	103664827	34805	19159	97.53	exclude as part of AMY1,2 gene cluster
IR1-103.60	103582840	103591057	103610750	103619057	8218	19692	90.50	exclude as part of AMY1,2 gene cluster
IR1-140.75	140689106	140706812	140794984	140812663	17707	88171	96.70	spans gap in 1q12
IR1-140.87	140794984	140830499	140912755	140948205	35516	82255	92.93	abuts gap in 1q12
IR1-141.00	140904112	140961808	141032469	141090043	57697	70660	94.63	spans gap in 1q21
IR1-143.58	143525751	143553809	143612311	143640409	28059	58501	99.02	spans gap in 1q21
IR1-145.46	145449342	145458435	145465662	145474674	9094	7226	96.38	include
IR1-147.04	147005622	147031685	147038425	147064511	26064	6739	99.71	include
IR1-149.47	149454111	149463085	149477165	149486046	8975	14079	93.98	include
IR1-150.63	150602269	150611468	150643786	150652933	9200	32317	90.88	include
IR1-224.663	224651814	224661541	224664446	224674211	9728	2904	90.47	include
IR1-245.60	245520674	245572688	245634748	245686893	52015	62059	97.85	spans gap 1q44
IR2-87.30	87232568	87255308	87341841	87364586	22741	86532	97.97	include
IR2-95.69	95564800	95647496	95730298	95812931	82697	82801	99.14	include
IR2-97.64	97579565	97634543	97646939	97701929	54979	12395	99.90	predraft sequence
IR2-131.41	131370658	131410788	131411634	131451760	40131	845	99.96	predraft sequence
IR2-132.75	132729920	132739589	132759486	132769123	9670	19896	98.29	include
IR4-49.22	49190877	49204294	49241087	49254483	13418	36792	99.58	tandem satellite
IR4-49.222	49203031	49217906	49226584	49241325	14876	8677	92.11	tandem satellite
IR4-70.24	70186423	70195233	70284500	70293236	8811	89266	88.01	exclude as part of UGT2 gene cluster
IR4-70.43	70379472	70401796	70455949	70478328	22325	54152	94.87	include for UGT2 gene cluster
IR4-70.427	70407842	70417424	70437213	70446798	9583	19788	95.36	exclude as part of UGT2 gene cluster
IR4-70.51	70486748	70500103	70516177	70529569	13356	16073	93.51	exclude as part of UGT2 gene cluster
IR4-70.62	70570555	70580502	70667325	70677332	9948	86822	78.38	exclude as part of UGT2 gene cluster
IR4-70.63	70589900	70599912	70667326	70677332	10013	67413	78.61	exclude as part of UGT2 gene cluster
IR4-121.37	121309436	121320458	121413920	121425109	11023	93461	77.80	include
IR5-17.6011	17569848	17582831	17619294	17632269	12984	36462	98.52	tandem satellite
IR5-17.61	17569848	17582831	17633030	17646005	12984	50198	98.55	tandem satellite
IR5-69.40	69275862	69388212	69411737	69523387	112351	23524	96.82	include
IR6-26.8590	26817924	26847097	26870951	26900142	29174	23853	99.37	include
IR6-150.336	150292788	150302670	150369144	150379043	9883	66473	93.64	include for ULBP gene cluster
IR6-150.337	150305254	150313934	150359811	150368457	8681	45876	92.90	exclude as part of ULBP gene cluster
IR6-150.37	150318199	150327777	150411225	150420751	9579	83447	81.83	exclude as part of ULBP gene cluster
IR7-48.67	48627384	48643481	48698022	48713847	16098	54540	89.72	include
IR7-54.08	54027559	54043456	54117836	54133724	15898	74379	98.11	include
IR7-61.18	61138711	61150373	61214806	61226467	11663	64432	99.47	abuts gap in 7q11.1
IR7-62.25	62162178	62237651	62254593	62330166	75474	16941	99.65	include
IR7-64.48	64397569	64449274	64506558	64558247	51706	57283	99.72	include
IR7-142.79	142689792	142755164	142831157	142896534	65373	75992	99.67	include
IR7-142.86	142778992	142807279	142907249	142935531	28288	99969	99.70	include
IR7-143.36	143275783	143343635	143385009	143452938	67853	41373	99.56	include
IR7-143.41	143361186	143385022	143442222	143466117	23837	57199	99.46	include
IR8-7.00	6933931	6991245	7012971	7069859	57315	21725	82.38	include
IR9-39.68	39485727	39631869	39719375	39865324	146143	87505	97.72	spans gap in 9p13
IR9-62.66	62614611	62627665	62689839	62702900	13055	62173	96.58	abuts gap in 9q12
IR9-64.30	64168227	64273743	64334228	64439774	105517	60484	98.11	spans gap in 9q13
IR9-66.27	66163313	66242587	66297631	66376614	79275	55043	97.50	spans gap in 9q21.11
IR10-4.979	4947367	4956088	5002788	5011413	8722	46699	94.30	include as IR10-4.979
IR10-4.9801	4961751	4977292	4982835	4998228	15542	5542	80.97	collapse with IR10-979
IR10-45.52	45484461	45502478	45528995	45546729	18018	26516	81.11	include
IR10-51.19	51133431	51149241	51238826	51254755	15811	89584	93.78	include
IR10-51.18	51148942	51168677	51194888	51214433	19736	26210	85.67	include
IR11-4.224	4210409	4220194	4226820	4236596	9786	6625	97.85	secondary structure with IR11-4.29
IR11-4.27	4217757	4236596	4306993	4325815	18840	70396	96.93	secondary structure with IR11-4.29
IR11-4.269	4236149	4265611	4272254	4301685	29463	6642	98.52	secondary structure with IR11-4.29
IR11-4.29	4238066	4274666	4314323	4350960	36601	39656	98.19	include
IR11-48.91	48866328	48877989	48942739	48954273	11662	64749	93.30	include
IR11-48.95	48928291	48938312	48960805	48970786	10022	22492	93.62	include
IR11-49.841	49810529	49821462	49860025	49870921	10934	38562	93.75	include
IR11-49.86	49836385	49845169	49870966	49879711	8785	25796	94.65	include
IR11-59.85	59794188	59806015	59895062	59906833	11828	89046	76.52	include
IR11-89.25	89195624	89206432	89289212	89300029	10809	82779	94.39	secondary structure with IR11-89.34
IR11-89.34	89238078	89341944	89345170	89449155	103867	3225	99.57	include
IR11-89.30	89262305	89273634	89331374	89342824	11330	57739	93.22	secondary structure with IR11-89.34
IR11-89.38	89345179	89355740	89413520	89423954	10562	57779	93.18	secondary structure with IR11-89.34
IR11-89.44	89387138	89396549	89477581	89486995	9412	81031	94.24	secondary structure with IR11-89.34
IR12-9.41	9327471	9366975	9452534	9492133	39505	85558	97.87	include
IR12-113.404	113383465	113392492	113415353	113424401	9028	22860	78.16	include
IR13-40.86	40823806	40834150	40879806	40890084	10345	45655	89.29	include
IR13-62.12	62088926	62099511	62131065	62141650	10586	31553	99.88	include
IR13-62.16	62109596	62131022	62193103	62214509	21427	62080	94.01	include
IR15-26.430	26414437	26423882	26436469	26445908	9446	12586	99.25	abuts gap 15q13.1
IR15-28.49	28386066	28444707	28538063	28596728	58642	93355	99.57	include

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IR15-30.53	30449826	30486085	30579541	30615764	36260	93455	98.99	include
IR15-42.95	42887512	42913252	42991070	43016616	25741	77817	78.20	include
IR15-80.40	80344864	80359819	80435697	80450429	14956	75877	94.31	include
IR15-80.78	80676023	80746311	80822222	80892084	70289	75910	95.25	include
IR15-82.63	82553921	82581487	82676321	82703862	27567	94833	97.84	abuts gap in 15q25.2
IR16-2.59	2535438	2574409	2604886	2643859	38972	30476	99.97	spans gap in 16p13.3
IR16-2.62	2541223	2574409	2665256	2698435	33187	90846	99.57	abuts gap in 16p13.3
IR16-20.49	20436191	20449129	20531614	20544531	12939	82484	96.02	collapse with IR16-20.49
IR16-20.490	20449128	20479253	20500221	20530455	30126	20967	91.62	include as IR16-20.49
IR16-55.58760	55548966	55563659	55611548	55626416	14694	47888	77.28	Secondary structure with IR16-55.58760
IR16-55.608	55566810	55607738	55608011	55648906	40929	272	98.69	include
IR17-19.19	19129061	19167109	19215213	19253235	38049	48103	99.74	include
IR17-19.23	19178088	19206925	19252921	19281743	28838	45995	99.80	abuts gap
IR17-30.53	30495690	30504900	30559856	30569093	9211	54955	97.95	include
IR17-36.51	36478049	36492874	36531378	36546194	14826	38503	98.91	abuts gap
IR17-58.63	58570961	58587422	58662671	58679143	16462	75248	99.35	include
IR19-6.99	6969506	6968638	6986390	7003213	16883	1	97.80	include
IR19-7.00	6978553	6991528	7000026	7012694	12976	8497	83.70	Secondary structure with IR19-6.99
IR19-48.563	48534948	48548128	48577347	48590464	13181	29218	95.05	include
IR19-48.5635	48550463	48561846	48565074	48576277	11384	3227	88.97	include
IR21-14.32	14268806	14281977	14350545	14363850	13172	68567	92.08	include
IR22-17.08	17031535	17043719	17111643	17123775	12185	67923	97.37	collapse with IR22-17.078
IR22-17.078	17041946	17058600	17096562	17113190	16655	37961	95.92	include as IR22-17.078
IR22-18.999	18964361	18980840	19017876	19034417	16480	37035	96.17	include
IR22-20.15	20057413	20121932	20170605	20235090	64520	48672	99.16	include
IR22-22.64	22606674	22636325	22638484	22668140	29652	2158	97.88	include
IRX-47.0818	47067885	47076308	47087264	47095585	8424	10955	79.17	exclude as SSX gene cluster
IRX-47.132	47087245	47098735	47166153	47177439	11491	67417	77.21	exclude as SSX gene cluster
IRX-47.3026	47272390	47283785	47321401	47332821	11396	37615	99.20	collapse with IRX-47.3031
IRX-47.3031	47284798	47301738	47304535	47321503	16941	2796	99.63	include as IRX-47.3031 for SSX4 cluster
IRX-50.36	50327758	50352811	50360204	50385228	25054	7392	99.53	include
IRX-50.79	50700617	50737022	50836877	50873313	36406	99854	99.89	include
IRX-51.17	51020041	51162207	51170548	51312705	142167	8340	99.97	abuts gap (shown in Table 1)
IRX-51.4958	51456269	51484949	51506592	51535296	28681	21642	99.87	include as
IRX-51.489	51472058	51485158	51493491	51506611	13101	8332	99.65	secondary structure with IRX-51.5
IRX-51.66	51619838	51630183	51692348	51702582	10346	62164	85.71	secondary structure with IRX-51.73
IRX-51.635	51620061	51628141	51642207	51650103	8081	14065	85.57	secondary structure with IRX-51.73
IRX-51.73	51665092	51724922	51725162	51785090	59831	239	99.67	include
IRX-51.924	51877636	51916383	51931396	51969976	38748	15012	97.94	include
IRX-54.4798	54446709	54473371	54486281	54512941	26663	12909	99.89	include
IRX-61.28	61215258	61271867	61280013	61336620	56610	8145	99.95	include
IRX-69.80	69745393	69754932	69848604	69858086	9540	93671	86.16	secondary structure with IRX-69.83
IRX-69.83	69769743	69827414	69827417	69885103	57672	2	99.70	include as IRX-69.83
IRX-69.804	69789824	69802243	69806250	69818374	12420	4006	75.08	secondary structure with IRX-69.83
IRX-69.91	69849515	69858086	69952011	69960497	8572	93924	86.54	secondary structure with IRX-69.83
IRX-70.95	70827540	70946844	70947262	71066535	119305	417	99.80	include
IRX-71.13	71082695	71092190	71164110	71173588	9496	71919	99.55	include
IRX-100.37	100224388	100364950	100375715	100516336	140563	10764	99.84	include
IRX-102.05	101995526	102015868	102075851	102096194	20343	59982	99.27	include
IRX-104.30	104281353	104293907	104302585	104315152	12555	8677	99.13	include
IRX-118.01	117926270	117975161	118037208	118086115	48892	62046	99.65	include
IRX-133.03	132955658	133004715	133046861	133095968	49058	42145	98.45	include
IRX-133.04	133012830	133021446	133053120	133061772	8617	31673	92.13	secondary structure with IRX-133.0
IRX-133.48	133434699	133443508	133520625	133529176	8810	77116	83.99	collapse with IRX-133.484
IRX-133.484	133449822	133462317	133505555	133518123	12496	43237	92.02	include as IRX-133.484
IRX-133.62	133556768	133608770	133622623	133674692	52003	13852	99.25	include
IRX-139.37	139354282	139366980	139370919	139383606	12699	3938	99.13	include
IRX-139.43	139369454	139383606	139468054	139482206	14153	84447	98.00	secondary structure with IRX-139.37
IRX-144.56	144550963	144561459	144561464	144571962	10497	4	99.84	include
IRX-147.49	147440200	147468465	147509475	147537732	28266	41009	99.23	include
IRX-150.52	150464654	150515867	150524862	150576052	51214	8994	98.96	include
IRX-152.06	152032166	152043518	152081144	152092502	11353	37625	99.11	include
IRX-152.30	152251351	152287141	152308901	152344708	35791	21759	99.69	include
IRY-5.8467	5809031	5818384	5874955	5884405	9354	56570	84.23	include
IRY-8.59	8571799	8581632	8590269	8600089	9834	8636	75.05	tandem satellite
IRY-9.3406	9313041	9322484	9358729	9368077	9444	36244	84.28	include
IRY-15.142	15104439	15140205	15143614	15179364	35767	3408	99.64	include
IRY-16.95	16931918	16940650	16953289	16962023	8733	12638	99.86	include
IRY-17.35	17216622	17326616	17372846	17482867	109995	46229	99.92	include
IRY-19.01	18512874	19008330	19011788	19507271	495457	3457	99.97	include
IRY-19.72	19507283	19697443	19737086	19927254	190161	39642	99.97	include
IRY-22.46	22418414	22436084	22482222	22499807	17671	46137	87.62	include
IRY-23.3074	23267853	23277738	23337151	23347103	9886	59412	86.94	replace with IRY23.2 Table 1, S2
IRY-24.19	24129839	24164564	24214950	24249419	34726	50385	88.06	secondary structure with IRY-24.201
IRY-24.20	24166173	24175409	24214950	24224174	9237	39540	93.28	secondary structure with IRY-24.201
IRY-24.201	24177018	24199535	24201674	24224174	22518	2138	97.20	include
IRY-25.12	25105993	25115919	25119865	25129795	9927	3945	99.84	include
IRY-25.83	25762097	25800642	25851034	25889610	38546	50391	97.04	secondary structure with IRY-25.815
IRY-25.820	25791417	25800642	25840186	25849425	9226	39543	93.19	secondary structure with IRY-25.815
IRY-25.815	25791417	25813920	25816059	25838577	22504	2138	97.23	include
IRY-26.55	26533858	26543784	26547730	26557662	9927	3945	99.89	include

TOTALS	spans gap	abuts gap	collapse	tandem sat	sec structure	predraft seq
	12	9	6	5	35	2