Tier 1 Gene	GeneRange (hg19)	GeneRange +500kb(hg19)	GeneRange (hg18)	StartSNP (GeneRange +500kb)	EndSNP (GeneRange +500kb)
ACAT1	chr11:107992257-108018891	chr11:107492257-108518891	chr11:107497467-107523485	rs7925970	kgp3957860
ACCN1	chr17:31340105-32483825	chr17:30840105-32983825	chr17:28364218-29507938	rs2519865	kgp10854156
ACTR2	chr2:65454828-65498390	chr2:64954828-65998390	chr2:65308405-65351891	rs1477043	kgp4266233
ADCY1	chr7:45614124-45762714	chr7:45114124-46262714	chr7:45580649-45729239	rs2289367	kgp13398740
ADRBK1	chr11:67033904-67054029	chr11:66533904-67554029	chr11:66790480-66810605	kgp7862175	kgp2126040
ALDOA	chr16:30064410-30081741	chr16:29564410-30581741	chr16:29971972-29989236	kgp733881	kgp6386467,rs33997546
APP	chr21:27252860-27543446	chr21:26752860-28043446	chr21:26174731-26465003	rs7281883	kgp2004872
ARL15	chr5:53180613-53606403	chr5:52680613-54106403	chr5:53216370-53642160	kgp10474479	rs10058571
ATXN7L3	chr17:42269172-42275529	chr17:41769172-42775529	chr17:39624698-39631055	rs11650560	rs6503398
BDKRB2	chr14:96671134-96710666	chr14:96171134-97210666	chr14:95740887-95780419	kgp19731302	kgp1905230
CA8	chr8:61101422-61193954	chr8:60601422-61693954	chr8:61263976-61356508	kgp9568230	kgp1623935
CACNA1B	chr9:140772240-141019076	chr9:140272240-141519076	chr9:139892061-140136452	kgp18327422	kgp12374930
CACYBP	chr1:174968570-174981163	chr1:174468570-175481163	chr1:173235193-173247786	rs1013769	kgp15391194
CALM1	chr14:90863326-90874619	chr14:90363326-91374619	chr14:89933125-89944363	kgp828819	kgp22766175
CHRM3	chr1:239549864-240049896	chr1:239049864-240549896	chr1:237616487-238116519	kgp1999037	rs1537850
CIC	chr19:42788816-42799949	chr19:42288816-43299949	chr19:47480656-47491789	kgp21495548	kgp22794755
CNP	chr17:40118758-40129754	chr17:39618758-40629754	chr17:37372284-37383280	kgp4988562	kgp1573374

Fig. 1-1

Tier 1 Gene	GeneRange (hg19)	GeneRange +500kb(hg19)	GeneRange (hg18)	StartSNP (GeneRange +500kb)	EndSNP (GeneRange +500kb)
CNTN4	chr3:2140549-3099645	chr3:1640549-3599645	chr3:2117246-3074645	kgp7465125	kgp11488181,rs9811783
CRHR1	chr17:954314-1170453	chr17:454314-1670453	chr17:41217448-41268973	kgp12243700	kgp2967880
CTNNA2	chr2:79412356-80875988	chr2:78912356-81375988	chr2:79265864-80729416	kgp2692843	kgp6161954
DISC1	chr1:231664398-232177019	chr1:231164398-232677019	chr1:229829183-230243641	kgp15830047	kgp10247084
DPP6	chr7:153584418-154685995	chr7:153084418-155185995	chr7:153215351-154316928	rs1822707	rs7781545
DYNLL1	chr12:120907659-120936298	chr12:120407659-121436298	chr12:119392042-119420681	rs2393569	rs1169303
FPR1	chr19:52249022-52255150	chr19:51749022-52755150	chr19:56940837-56946962	rs11084062	kgp21351572
GAPDH	chr12:6643656-6647536	chr12:6143656-7147536	chr12:6513917-6517797	kgp12277967	kgp3951989
GNA15	chr19:3136190-3163766	chr19:2636190-3663766	chr19:3087190-3114766	kgp9441497	rs8109485
GNAI2	chr3:50263723-50296786	chr3:49763723-50796786	chr3:50238727-50271790	rs1049256	kgp1163947
GNAO1	chr16:56225250-56391356	chr16:55725250-56891356	chr16:54782751-54948857	rs36013	kgp16402238
GNAQ	chr9:80335190-80646219	chr9:79835190-81146219	chr9:79525010-79836012	rs3802497	kgp478959
GRIK1	chr21:30909253-31312282	chr21:30409253-31812282	chr21:29831124-30234153	kgp6759057	kgp13183414
GRIK3	chr1:37261127-37499844	chr1:36761127-37999844	chr1:37033714-37272431	kgp15160339	kgp6185747
GRM1	chr6:146348781-146758731	chr6:145848781-147258731	chr6:146390474-146800424	kgp17333275	rs17076442
GRM3	chr7:86273229-86494192	chr7:85773229-86994192	chr7:86111165-86332128	rs7809507	rs6950721
GRM5	chr11:88237743-88796816	chr11:87737743-89296816	chr11:87881005-88436464	kgp11022062	rs7123374
GRM7	chr3:6902801-7783218	chr3:6402801-8283218	chr3:6877926-7758217	rs17288121	kgp10770379
GRM8	chr7:126078651-126893147	chr7:125578651-127393147	chr7:125865887-126680383	rs11767202	kgp13721602
GSN	chr9:123963760-124095120	chr9:123463760-124595120	chr9:123003581-123134941	rs10984984	kgp10246924
HOMER1	chr5:78669785-78809700	chr5:78169785-79309700	chr5:78705541-78845456	kgp22480767	rs2438612

Fig. 1-2

Tier 1 Gene	GeneRange (hg19)	GeneRange +500kb(hg19)	GeneRange (hg18)	StartSNP (GeneRange +500kb)	EndSNP (GeneRange +500kb)
HTR2A	chr13:47407512-47471169	chr13:46907512-47971169	chr13:46305513-46368995	rs4942513	rs2185411
LARP7	chr4:113558119-113578742	chr4:113058119-114078742	chr4:113777568-113798191	kgp20778198	rs10516593
MAPK1	chr22:22113946-22221970	chr22:21613946-22721970	chr22:20443946-20551970	rs2019503	rs5758017
MTHFD1	chr14:64854758-64926725	chr14:64354758-65426725	chr14:63924845-63996474	kgp8236539	kgp19721535
MX1	chr21:42792519-42831141	chr21:42292519-43331141	chr21:41714311-41753008	rs7280789	kgp9356591
NARG1	chr4:140222675-140311935	chr4:139722675-140811935	chr4:140442125-140531385	kgp951257	kgp22761518
NEGR1	chr1:71868624-72748405	chr1:71368624-73248405	chr1:71641212-72520993	kgp15840593	kgp15187386
NLN	chr5:65018022-65125111	chr5:64518022-65625111	chr5:65053840-65155145	kgp8540617	kgp6780911
NMI	chr2:152126981-152146430	chr2:151626981-152646430	chr2:151835227-151854676	rs9789673	rs4303715
PCBP3	chr21:47063682-47355618	chr21:46563682-47855618	chr21:45888110-46180046	rs13047590	rs17371795
PDE1C	chr7:31792631-32338383	chr7:31292631-32838383	chr7:31759156-32305466	rs960434	rs10264489
PPP2R1A	chr19:52693054-52729678	chr19:52193054-53229678	chr19:57385045-57421483	kgp3827878	kgp21490256
PRPSAP1	chr17:74306867-74350279	chr17:73806867-74850279	chr17:71818609-71861526	kgp13936725	kgp5222426
PSMD11	chr17:30771501-30808042	chr17:30271501-31308042	chr17:27795614-27832155	kgp12010810	rs8065019
PSMD13	chr11:236807-252984	chr11:1-752984	chr11:226807-242984	kgp9815230	kgp7252222
PXN	chr12:120648241-120703574	chr12:120148241-121203574	chr12:119132632-119187946	kgp9790305	kgp10851563
QRICH2	chr17:74270129-74303761	chr17:73770129-74803761	chr17:71781724-71815356	kgp9494493	kgp13978344
RANBP1	chr22:20105023-20114706	chr22:19605023-20614706	chr22:18485023-18494704	kgp15081773	kgp240898
RAP2A	chr13:98086474-98120252	chr13:97586474-98620252	chr13:96884476-96918245	kgp1964422	kgp12456635
RCC1	chr1:28832454-28865708	chr1:28332454-29365708	chr1:28717331-28738194	kgp4972332	kgp10549261
RGS12	chr4:3315873-3441640	chr4:2815873-3941640	chr4:3285671-3411438	kgp6603457	kgp12100218

Fig. 1-3

Tier 1 Gene	GeneRange (hg19)	GeneRange +500kb(hg19)	GeneRange (hg18)	StartSNP (GeneRange +500kb)	EndSNP (GeneRange +500kb)
RIF1	chr2:152266396-152333860	chr2:151766396-152833860	chr2:151974645-152040665	rs13010870	kgp14366130
RUVBL2	chr19:49497155-49519182	chr19:48997155-50019182	chr19:54188967-54210994	kgp2866116	rs6509434
RYR1	chr19:38924339-39078204	chr19:38424339-39578204	chr19:43616179-43770044	kgp21463042	kgp10827233
RYR2	chr1:237205701-237997288	chr1:236705701-238497288	chr1:235272324-236063911	kgp15265824	kgp855991
SDC3	chr1:31342312-31381480	chr1:30842312-31881480	chr1:31114899-31154067	kgp3545961	rs1039630
SELE	chr1:169691780-169703220	chr1:169191780-170203220	chr1:167958404-167969844	kgp11738441	kgp5736867
SERPINB9	chr6:2887503-2903545	chr6:2387503-3403545	chr6:2832502-2848506	rs4959652	kgp9198993
SETD4	chr21:37415981-37451687	chr21:36915981-37951687	chr21:36337851-36373557	rs8131794	kgp10193814
SGTB	chr5:64961754-65017941	chr5:64461754-65517941	chr5:64997510-65053697	rs2367239	rs253229
SHANK1	chr19:51165083-51220195	chr19:50665083-51720195	chr19:55856895-55912007	kgp8880890	kgp5265049
SLC7A10	chr19:33699569-33716756	chr19:33199569-34216756	chr19:38391410-38408548	kgp3880561	kgp21532613
SORD	chr15:45315301-45367287	chr15:44815301-45867287	chr15:43102632-43154331	rs3752691	rs17627219
STRAP	chr12:16035287-16056410	chr12:15535287-16556410	chr12:15926554-15947677	kgp9763258	kgp18858589
TK1	chr17:76170159-76183285	chr17:75670159-76683285	chr17:73681754-73694880	kgp13960604	kgp4569268
TNIK	chr3:170780291-171178197	chr3:170280291-171678197	chr3:172264363-172660546	kgp17660929	kgp3100328
USP24	chr1:55532031-55681039	chr1:55032031-56181039	chr1:55304619-55453350	kgp3052862	kgp5594096
VHL	chr3:10183318-10195354	chr3:9683318-10695354	chr3:10158318-10168746	kgp6652387	rs9942062

Fig. 1-4

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
ACAT2	chr6:160182988-160200087	chr6:159682988-160700087	chr12:51783540-51804590	kgp17016252	rs3119312
ACCN2	chr12:50451486-50477394	chr12:49951486-50977394	chr12:48737753-48763661	kgp6083801	kgp2326833
ACP1	chr2:264868-278282	chr2:1-778282	chr2:254871-268282	kgp14878812	kgp6217001
ACTB	chr7:5566778-5570232	chr7:5066778-6070232	chr7:5533304-5536758	kgp10503129	rs17136342
ADA	chr20:43248162-43280376	chr20:42748162-43780376	chr20:42681576-42713790	kgp505723	rs2207199
ADD1	chr4:2845583-2931802	chr4:2345583-3431802	chr4:2815381-2901587	kgp5601859	kgp5383382
ADD2	chr2:70834749-70995375	chr2:70334749-71495375	chr2:70688257-70848837	kgp14188216	kgp4077094
ADORA1	chr1:203096835-203136533	chr1:202596835-203636533	chr1:201363458-201403156	rs16850143	rs12568960
ADRA1B	chr5:159343739-159400017	chr5:158843739-159900017	chr5:159276317-159332595	rs17056747	kgp2774549
ADRA2A	chr10:112836789-112840662	chr10:112336789-113340662	chr10:112826910-112830560	kgp3219023	rs10787379
ADRA2C	chr4:3768295-3770253	chr4:3268295-4270253	chr4:3737872-3740016	kgp21189210	kgp21320659
ADRB2	chr5:148206155-148208197	chr5:147706155-148708197	chr5:148186348-148188381	kgp6738042	rs352336
ANXA2	chr15:60639349-60690185	chr15:60139349-61190185	chr15:58426641-58477477	kgp19904124	kgp1248561
APTX	chr9:32972603-33001639	chr9:32472603-33501639	chr9:32962607-33015110	kgp8123814	kgp22778750
AQP1	chr7:30893009-30965131	chr7:30393009-31465131	chr7:30917992-30931656	kgp13347683	rs11983505
ARHGAP24	chr4:86396283-86923823	chr4:85896283-87423823	chr4:86615307-87142847	kgp12192788	kgp20991115
ARRB1	chr11:74971165-75062875	chr11:74471165-75562875	chr11:74654129-74740521	kgp13077708	kgp12867051
ARRB2	chr17:4613788-4624795	chr17:4113788-5124795	chr17:4560537-4571544	kgp10630047	rs2304905

Fig. 2-1

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
BDKRB1	chr14:96722546-96731100	chr14:96222546-97231100	chr14:95792311-95800853	rs10146784	kgp10194056
BTBD2	chr19:1985446-2015702	chr19:1485446-2515702	chr19:1936446-1966702	kgp9698924	rs12985186
BTG2	chr1:203274663-203278729	chr1:202774663-203778729	chr1:201541286-201545352	kgp11073362	kgp22834576
C17orf44	chr17:8123966-8127361	chr17:7623966-8627361	chr17:8064691-8068086	kgp14083005	kgp8066962
C1orf116	chr1:207191865-207206101	chr1:206691865-207706101	chr1:205258488-205272724	kgp15208593	rs12094477
C7orf25	chr7:42948871-42971805	chr7:42448871-43471805	chr7:42915396-42938330	kgp13766903	kgp8523923
CALB2	chr16:71392615-71424342	chr16:70892615-71924342	chr16:69950126-69981843	rs1774414	kgp16319275
CALM2	chr2:47387220-47403740	chr2:46887220-47903740	chr2:47146583-47257154	kgp12094177	kgp4237241
CALM3	chr14:90863326-90874619	chr14:90363326-91374619	chr19:51796351-51805879	kgp828819	kgp22766175
CAMK1	chr3:9799028-9811668	chr3:9299028-10311668	chr3:9774030-9786661	kgp4340327	kgp1318661
CAMK2B	chr7:44256748-44365230	chr7:43756748-44865230	chr7:44223273-44331749	rs10245456	kgp10338229
CAMK4	chr5:110559946-110820748	chr5:110059946-111320748	chr5:110587980-110848647	kgp11981357	kgp22673631
CCNB1	chr5:68462836-68474070	chr5:67962836-68974070	chr5:68498668-68509826	kgp5100830	rs28529133
CDC42	chr1:22379119-22419436	chr1:21879119-22919436	chr1:22251706-22292023	kgp15282552	rs209696
CENTG1	chr12:58118076-58135944	chr12:57618076-58635944	chr12:56404343-56422211	kgp22774357	rs12825103
CHGB	chr20:5891973-5906005	chr20:5391973-6406005	chr20:5840167-5854003	kgp19217529	kgp5406173
CHP	chr15:41523436-41574083	chr15:41023436-42074083	chr15:39310728-39361375	kgp9389002	kgp10815429
CHRM2	chr7:136553398-136701771	chr7:136053398-137201771	chr7:136203938-136352311	rs2882248	kgp11051162
CMPK	chr2:6988440-7005950	chr2:6488440-7505950	chr2:6905891-6923401	rs16865056	kgp6717309
CNR1	chr6:88849584-88875767	chr6:88349584-89375767	chr6:88910155-88932281	kgp11366911	kgp5424340

Fig. 2-2

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
COPB2	chr3:139076432-139108522	chr3:138576432-139608522	chr3:140559122-140591212	kgp17652827	rs2554152
CYCS	chr7:25158269-25164980	chr7:24658269-25664980	chr7:25124799-25131480	kgp22782658	kgp9259047
DCN	chr12:91539034-91576806	chr12:91039034-92076806	chr12:90063165-90100937	rs11105720	rs1602946
DHCR7	chr11:71145456-71159477	chr11:70645456-71659477	chr11:70823104-70837125	rs2016495	kgp4157665
DLST	chr14:75348593-75370450	chr14:74848593-75870450	chr14:74418371-74440198	kgp6099186	rs11621369
DRD2	chr11:113280316-113346001	chr11:112780316-113846001	chr11:112785526-112851211	kgp12732525	rs1062613
DRD3	chr3:113847556-113918254	chr3:113347556-114418254	chr3:115330246-115400944	kgp18078164	kgp7361746
DSTN	chr20:17550598-17588652	chr20:17050598-18088652	chr20:17498598-17536652	kgp19350858	rs1581925
ECHS1	chr10:135175986-135186908	chr10:134675986-135686908	chr10:135025979-135036898	kgp21664075	kgp22837031
EGFR	chr7:55086724-55275031	chr7:54586724-55775031	chr7:55054218-55242525	kgp12053718	kgp3314724
EIF3S3	chr8:117657055-117768062	chr8:117157055-118268062	chr8:117726236-117837243	kgp10576753	rs1793723
ERBB2	chr17:37844392-37884915	chr17:37344392-38384915	chr17:35097918-35138441	kgp11528115	kgp670921
F2R	chr5:76011867-76031595	chr5:75511867-76531595	chr5:76047623-76067351	kgp22518836	kgp1549629
F2RL2	chr5:75911306-75919240	chr5:75411306-76419240	chr5:75947062-75954996	kgp10188048	kgp8041699
F2RL3	chr19:16999825-17002830	chr19:16499825-17502830	chr19:16860825-16863830	kgp9756004	kgp12567834
F3	chr1:94994731-95007413	chr1:94494731-95507413	chr1:94767460-94779903	kgp22732356	kgp5203715
FKBP3	chr14:45584801-45604009	chr14:45084801-46104009	chr14:44654858-44674272	kgp8973198	kgp19724486
FSCN1	chr7:5632435-5646287	chr7:5132435-6146287	chr7:5598979-5612812	kgp11535801	kgp22733484
FURIN	chr15:91411884-91426687	chr15:90911884-91926687	chr15:89212888-89227691	kgp19755110	kgp7570879
FYN	chr6:111981534-112194655	chr6:111481534-112694655	chr6:112089177-112301320	kgp9553033	kgp10843976

Fig. 2-3

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
GLP1R	chr6:39016556-39055520	chr6:38516556-39555520	chr6:39124534-39163498	kgp11427391	kgp8067157
GLP2R	chr17:9729380-9793022	chr17:9229380-10293022	chr17:9670105-9733747	kgp13857921	kgp14095302
GNAI1	chr7:79764139-79848725	chr7:79264139-80348725	chr7:79602075-79686661	kgp3340161	kgp96572
GNAI3	chr1:110091185-110138452	chr1:109591185-110638452	chr1:109892708-109939975	rs28503409	kgp2138201
GNB2L1	chr5:180663927-180670906	chr5:180163927-181170906	chr5:180596533-180603512	kgp9825803	kgp22785368
GOT1	chr10:101156626-101190530	chr10:100656626-101690530	chr10:101146617-101180336	kgp21656902	kgp21815940
GP1BA	chr17:4835591-4838325	chr17:4335591-5338325	chr17:4776371-4779067	kgp13949132	kgp11186643
GPR26	chr10:125425870-125456913	chr10:124925870-125956913	chr10:125415860-125444113	kgp7582662	kgp21578542
GRB2	chr17:73314156-73401790	chr17:72814156-73901790	chr17:70825751-70913385	kgp13841089	kgp14035219
GRB7	chr17:37894161-37903538	chr17:37394161-38403538	chr17:35147712-35157064	kgp14102913	kgp13833584
GRIA1	chr5:152870083-153193429	chr5:152370083-153693429	chr5:152850276-153173622	rs1438937	rs10057369
GRM2	chr3:51741080-51752625	chr3:51241080-52252625	chr3:51716127-51727665	rs4367100	rs13060808
GRM4	chr6:33989627-34113869	chr6:33489627-34613869	chr6:34097605-34231377	kgp17076142	rs6909637
GRM6	chr5:178405329-178422124	chr5:177905329-178922124	chr5:178337935-178354730	rs603852	rs11249632
HBXIP	chr1:110943876-110950546	chr1:110443876-111450546	chr1:110745399-110752069	kgp8686658	rs1936942
HD	chr6:125596496-125623282	chr6:125096496-126123282	chr6:125638195-125664981	rs11154263	rs11967627
HNRPA3	chr2:178077422-178088685	chr2:177577422-178588685	chr2:177785668-177796931	kgp14203861	rs1344924
HOMER3	chr19:19017768-19045219	chr19:18517768-19545219	chr19:18901011-18912983	rs13344313	rs4808199
HRPT2	chr1:193091088-193223942	chr1:192591088-193723942	chr1:191357711-191490565	kgp2473538	kgp12065536
HSP90AB1	chr6:44214848-44221614	chr6:43714848-44721614	chr6:44322826-44329592	kgp5836209	kgp8706663

Fig. 2-4

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
IL8RB	chr2:218989997-219001975	chr2:218489997-219501975	chr2:218698242-218710220	kgp22730583	rs1055816
IMPDH2	chr3:49061761-49066875	chr3:48561761-49566875	chr3:49036765-49041879	kgp22731595	kgp5626213
IQGAP2	chr5:75699148-76003957	chr5:75199148-76503957	chr5:75734904-76039713	kgp22490664	rs11739698
ITGB1	chr10:33189245-33247293	chr10:32689245-33747293	chr10:33229251-33287299	kgp12034252	rs11009395
ITGB7	chr12:53585106-53601000	chr12:53085106-54101000	chr12:51871373-51887267	kgp19011413	kgp3313746
ITPR1	chr3:4535031-4889524	chr3:4035031-5389524	chr3:4510033-4864286	kgp17889944	kgp1749057
KIAA0090	chr1:19544583-19578046	chr1:19044583-20078046	chr1:19417170-19450633	rs624761	rs1009631
KIAA1683	chr19:18367905-18385319	chr19:17867905-18885319	chr19:18228907-18246235	kgp6435620	rs10412356
LAMA4	chr6:112429133-112575828	chr6:111929133-113075828	chr6:112535826-112682521	kgp16962466	kgp17024247
LRP2BP	chr4:186285031-186300172	chr4:185785031-186800172	chr4:186522026-186537166	kgp7238414	rs9994907
LRRC59	chr17:48458593-48474914	chr17:47958593-48974914	chr17:45813597-45829831	kgp1609816	kgp13856216
LTA	chr6:2825414-2827639	chr6:2825414-2827639	chr6:2787675-2789683	kgp11675228	rs6912537
LYAR	chr4:4269428-4291896	chr4:3769428-4791896	chr4:4320337-4342744	kgp22780996	kgp7317116
LYN	chr8:56792385-56925006	chr8:56292385-57425006	chr8:56954939-57086494	kgp8836202	rs2670027
MAP4	chr3:47892179-48130769	chr3:47392179-48630769	chr3:47867188-48105715	kgp17741397	rs35623035
MAPT	chr17:43971747-44105699	chr17:43471747-44605699	chr17:41327543-41461546	kgp22730329	kgp13941400
MARK4	chr19:45754515-45808541	chr19:45254515-46308541	chr19:50446681-50500381	kgp10230030	kgp21456098
MC4R	chr18:58038563-58040001	chr18:57538563-58540001	chr18:56189543-56190981	kgp7049183	kgp1258536
MGC11082	chr18:3602998-3604385	chr18:3102998-4104385	chr18:3592998-3594385	kgp15965827	kgp12318627
MRPL14	chr6:44081372-44095191	chr6:43581372-44595191	chr6:44189349-44203169	kgp17033193	rs527322

Fig. 2-5

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
MRPS16	chr10:75006445-75012451	chr10:74506445-75512451	chr10:74678606-74682457	kgp21628722	rs12243089
MTNR1A	chr4:187454808-187476537	chr4:186954808-187976537	chr4:187691802-187713531	rs12648771	rs4476657
MTNR1B	chr11:92702788-92715948	chr11:92202788-93215948	chr11:92342436-92355596	kgp10063029	rs2658801
MYC	chr8:128748314-128753680	chr8:128248314-129253680	chr8:128817497-128822855	kgp3177285	kgp1944877
MYO6	chr6:76458908-76629254	chr6:75958908-77129254	chr6:76515628-76685974	kgp17262775	kgp17183304
NANS	chr9:100818958-100845365	chr9:100318958-101345365	chr9:99847709-99885178	rs10817759	rs2778908
NCK1	chr3:136581049-136667968	chr3:136081049-137167968	chr3:138063762-138150658	kgp117446	kgp10600232
NFKBIA	chr14:35870715-35873960	chr14:35370715-36373960	chr14:34940466-34943711	kgp19552677	kgp19707730
NPY2R	chr4:156129780-156138228	chr4:155629780-156638228	chr4:156349230-156357678	kgp3956236	kgp20850236
NUDC	chr1:27248223-27272887	chr1:26748223-27772887	chr1:27120810-27145474	rs11247955	kgp15594139
OPRD1	chr1:29138653-29190208	chr1:28638653-29690208	chr1:29011240-29062795	kgp9104521	kgp15855740
PAFAH1B3	chr19:42801184-42806952	chr19:42301184-43306952	chr19:47493024-47498563	kgp21540635	kgp22735078
PCBP1	chr2:70314584-70316334	chr2:69814584-70816334	chr2:70168204-70169836	kgp14596264	kgp6568959
PCDHA4	chr5:140186671-140391929	chr5:139686671-140891929	chr5:140166855-140372115	kgp6468526	kgp10727572
PCID1	chr11:32605313-32624037	chr11:32105313-33124037	chr11:32561889-32580613	kgp13035948	rs10836023
PCMT1	chr6:150070830-150132557	chr6:149570830-150632557	chr6:150112657-150174249	kgp17277449	kgp10169289
PDCD5	chr19:33072093-33078358	chr19:32572093-33578358	chr19:37763943-37770169	kgp21531284	rs7259333
PDE1B	chr12:54943176-54973023	chr12:54443176-55473023	chr12:53229670-53259290	kgp18962385	rs11171250
PDE6G	chr17:79617488-79623607	chr17:79117488-80123607	chr17:77227893-77234038	kgp317116	kgp13898509
PGM1	chr1:64058946-64125916	chr1:63558946-64625916	chr1:63831534-63898505	kgp175729	kgp15416792

Fig. 2-6

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
PHKB	chr16:47495209-47735434	chr16:46995209-48235434	chr16:46052710-46292935	kgp8481371	rs16945930
PHKG2	chr16:30759619-30772497	chr16:30259619-31272497	chr16:30667237-30676183	kgp16316196	kgp22773724
PICK1	chr22:38453261-38471708	chr22:37953261-38971708	chr22:36783207-36801654	kgp5170623	kgp1759680
PIK3CA	chr3:178866310-178952497	chr3:178366310-179452497	chr3:180349004-180435191	rs7615444	rs1025864
PIK3R1	chr5:67511583-67597649	chr5:67011583-68097649	chr5:67547359-67633405	kgp7844449	rs7737296
PLA2G7	chr6:46672052-46703430	chr6:46172052-47203430	chr6:46780011-46811110	kgp4678268	kgp9155835
PLCB1	chr20:8113295-8865547	chr20:7613295-9365547	chr20:8061295-8813547	kgp19226483	rs2076234
PLCB3	chr11:64018994-64036924	chr11:63518994-64536924	chr11:63775697-63793195	kgp9427286	rs484886
PLCG2	chr16:81812898-81991899	chr16:81312898-82491899	chr16:80370430-80549400	kgp4622733	kgp3230988
PPIH	chr1:43124047-43142429	chr1:42624047-43642429	chr1:42896634-42915016	kgp1870818	rs11210802
PRDX1	chr1:45976706-45988562	chr1:45476706-46488562	chr1:45749293-45760196	rs3806405	kgp15560310
PRKCA	chr17:64298925-64806862	chr17:63798925-65306862	chr17:61729387-62237324	kgp13847618	kgp13994829
PRLHR	chr10:120352915-120355160	chr10:119852915-120855160	chr10:120342905-120345150	rs853584	kgp21690663
PRMT1	chr19:50180408-50191707	chr19:49680408-50691707	chr19:54872307-54883516	kgp1460116	kgp5315133
PSAT1	chr9:80912058-80945009	chr9:80412058-81445009	chr9:80101878-80134829	kgp2581728	kgp9769053
PSEN1	chr14:73603142-73690399	chr14:73103142-74190399	chr14:72672931-72756862	kgp8405661	kgp19611371
PSMA1	chr11:14526421-14665180	chr11:14026421-15165180	chr11:14482997-14621739	kgp12643195	kgp13010596
PSMC1	chr14:90722893-90738966	chr14:90222893-91238966	chr14:89792646-89808719	rs10140098	kgp19595798
PSMD1	chr2:231921577-232037540	chr2:231421577-232537540	chr2:231629852-231745717	rs1678155	kgp11602861
PSMD6	chr3:63996230-64009658	chr3:63496230-64509658	chr3:63971270-63984698	kgp9706776	kgp17718198

Fig. 2-7

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
PSME1	chr14:24605377-24608176	chr14:24105377-25108176	chr14:23675217-23678016	kgp11494860	kgp2234181
PTHR2	chr2:209353736-209704818	chr2:208853736-210204818	chr2:209061981-209413063	kgp14652386	rs1020407
PYGL	chr14:51371934-51411248	chr14:50871934-51911248	chr14:50441686-50480984	kgp10991856	rs7146882
PYGM	chr11:64513860-64528187	chr11:64013860-65028187	chr11:64270436-64284763	kgp12876954	rs675671
RAB2	chr8:61429469-61536203	chr8:60929469-62036203	chr8:61592023-61698757	kgp7067636	rs3864667
RALA	chr7:39663151-39747723	chr7:39163151-40247723	chr7:39629686-39714242	kgp22733616	rs11768838
RCC2	chr1:17733250-17766250	chr1:17233250-18266250	chr1:17605865-17638807	kgp15535308	kgp7647703
RGS2	chr1:192778168-192781407	chr1:192278168-193281407	chr1:191044793-191048026	rs10921130	kgp11065785
RHOA	chr3:49396578-49449526	chr3:48896578-49949526	chr3:49371582-49424530	kgp11466037	rs868891
RPA2	chr1:28218048-28241236	chr1:27718048-28741236	chr1:28090635-28113823	rs12033326	kgp15705538
RPLP2	chr11:809935-812876	chr11:309935-1312876	chr11:799935-802876	kgp11473410	kgp7750669
RPN2	chr20:35807455-35870025	chr20:35307455-36370025	chr20:35240887-35303439	kgp9846122	kgp19260650
RPS14	chr5:149823791-149829319	chr5:149323791-150329319	chr5:149803984-149809512	kgp22444746	kgp22218062
RRM1	chr11:4137307-4223759	chr11:3637307-4723759	chr11:4072499-4116682	rs6578398	kgp4491491
S100A6	chr1:153507075-153508717	chr1:153007075-154008717	chr1:151773699-151775341	kgp15193014	rs10908627
SACS	chr13:23902964-24007841	chr13:23402964-24507841	chr13:22800964-22905841	kgp16818396	rs2765089
SARS	chr1:109756514-109780804	chr1:109256514-110280804	chr1:109558062-109582308	kgp5910329	rs1803687
SCTR	chr2:120197418-120282028	chr2:119697418-120782028	chr2:119913888-119998498	kgp12364473	kgp22762988
SET	chr9:131445933-131458675	chr9:130945933-131958675	chr9:130485754-130498496	kgp11282765	kgp18608937
SF3B14	chr2:24290453-24299314	chr2:23790453-24799314	chr2:24143957-24152818	kgp14521970	rs12474894

Fig. 2-8

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
SHBG	chr17:7517381-7536700	chr17:7017381-8036700	chr17:7458106-7477395	kgp7760759	rs6503086
SIAH1	chr16:48390274-48482309	chr16:47890274-48982309	chr16:46947777-47039810	kgp4639784	kgp7644930
SLC2A1	chr1:43391045-43424847	chr1:42891045-43924847	chr1:43163632-43197434	kgp2036523	rs2782652
SLC6A3	chr5:1392904-1445543	chr5:892904-1945543	chr5:1445909-1498538	kgp22585075	kgp9690399
SNCA	chr4:90645249-90759447	chr4:90145249-91259447	chr4:90865727-90978470	kgp11552673	kgp8195783
SNRPB2	chr20:16710608-16722417	chr20:16210608-17222417	chr20:16658628-16670037	kgp19326624	kgp19208923
SOCS6	chr18:67956136-67997434	chr18:67456136-68497434	chr18:66107116-66148414	kgp10928836	rs4243325
SOCS7	chr17:36508006-36561846	chr17:36008006-37061846	chr17:33761530-33809545	rs12936144	rs4794796
SRC	chr20:35973087-36033821	chr20:35473087-36533821	chr20:35406501-35467235	kgp19359278	kgp9150551
STAU1	chr20:47729875-47805288	chr20:47229875-48305288	chr20:47163282-47238695	rs11905650	kgp19233876
STX12	chr1:28099693-28150963	chr1:27599693-28650963	chr1:27972280-28023550	kgp22731625	kgp15287949
SYK	chr9:93564011-93660842	chr9:93064011-94160842	chr9:92603890-92698304	kgp12394293	rs894962
TBCA	chr5:76986994-77072185	chr5:76486994-77572185	chr5:77022750-77107941	rs2928164	rs10059285
TBXA2R	chr19:3594503-3606831	chr19:3094503-4106831	chr19:3545503-3557658	kgp21472781	kgp1760692
TCP1	chr6:160199529-160210735	chr6:159699529-160710735	chr6:160119519-160130725	kgp16923201	kgp10518192
TEAD3	chr6:35441373-35464861	chr6:34941373-35964861	chr6:35549351-35572839	rs847861	kgp3339
TFAM	chr10:60145175-60155897	chr10:59645175-60655897	chr10:59815181-59825903	kgp9406331	kgp6514369
TGM2	chr20:36756863-36793700	chr20:36256863-37293700	chr20:36190277-36227114	rs6067098	kgp9992037
TJP1	chr15:29992356-30114706	chr15:29492356-30614706	chr15:27779648-27901998	kgp19895791	rs2604694
TLR10	chr4:38773859-38784611	chr4:38273859-39284611	chr4:38450646-38460984	kgp9612652	rs6531705

Fig. 2-9

Tier 2 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500kb)
TMEM4	chr12:56704213-56710128	chr12:56204213-57210128	chr12:54990480-54996395	kgp6718939	kgp6565807
TPI1	chr12:6976583-6980110	chr12:6476583-7480110	chr12:6846966-6850253	kgp3883976	kgp18849054
TRAF2	chr9:139776384-139821067	chr9:139276384-140321067	chr9:138896205-138940888	rs3812570	kgp9465784
TRMT112	chr11:64084164-64085033	chr11:63584164-64585033	chr11:63840740-63841609	kgp1242205	rs2957154
TUBA1	chr12:49521565-49525304	chr12:49021565-50025304	chr12:47807832-47811571	kgp4948752	kgp18737983
TUBA1A	chr12:49578582-49582861	chr12:49078582-50082861	chr12:47864849-47869128	kgp5373125	kgp1407179
TUBA1B	chr12:49521566-49525304	chr12:49021566-50025304	chr12:47807832-47866883	kgp4948752	kgp18737983
TUBA2	chr12:49578793-49580616	chr12:49078793-50080616	chr12:47865060-47866883	kgp18983720	kgp75177
TUBB	chr6:1981087-1986127	chr6:1981087-1986127	chr6:1935034-1940074	kgp17000846	kgp16908954
TUBG1	chr17:40761357-40767256	chr17:40261357-41267256	chr17:38015219-38020777	rs12600570	kgp3534380
TXN	chr9:113006091-113018920	chr9:112506091-113518920	chr9:112046130-112058599	kgp18601393	kgp652846
TXNDC4	chr9:102741463-102861330	chr9:102241463-103361330	chr9:101781284-101901151	kgp22740558	rs10989168
TXNL2	chr10:131934639-131977932	chr10:131434639-132477932	chr10:131824629-131867922	kgp21587397	rs2921907
TYMS	chr18:657603-673499	chr18:157603-1173499	chr18:647603-663499	kgp1671520	kgp5560925
UBQLN4	chr1:156005091-156023516	chr1:155505091-156523516	chr1:154271715-154290140	rs12746592	kgp204451
UCHL1	chr4:41258897-41270446	chr4:40758897-41770446	chr4:40953685-40965203	rs10029833	kgp21157719
VIPR1	chr3:42530790-42579065	chr3:42030790-43079065	chr3:42519120-42554064	rs794894	kgp10771397
YWHAQ	chr2:9724105-9771106	chr2:9224105-10271106	chr2:9641556-9688557	kgp7327726	rs1138729
ZAP70	chr2:98330030-98356323	chr2:97830030-98856323	chr2:97696462-97722755	kgp10723114	kgp14308801

Fig. 2-10

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
ABI3	chr17:47287588-47300587	chr17:46787588-47800587	chr17:44642587-44655586	rs7211412	kgp13987803
ACTA1	chr1:229566992-229569843	chr1:229066992-230069843	chr1:227633615-227636466	kgp706951	kgp9594907
ACTN2	chr1:236849769-236927558	chr1:236349769-237427558	chr1:234916392-234994181	kgp12139182	kgp9945691
ADCY5	chr3:123001142-123167392	chr3:122501142-123667392	chr3:124486088-124650082	kgp5729470	kgp18234294
ADCY8	chr8:131792546-132052835	chr8:131292546-132552835	chr8:131861728-132122017	rs11778881	kgp4563992
ADCYAP1R1	chr7:31092075-31151093	chr7:30592075-31651093	chr7:31058666-31112836	kgp6410265	kgp5976045
ADD3	chr10:111756107-111895323	chr10:111256107-112395323	chr10:111746097-111885313	kgp2922347	kgp21705322
AFAP1	chr4:7760439-7941653	chr4:7260439-8441653	chr4:7811339-7992553	kgp10066670	kgp2565038
AGTR1	chr3:148415657-148460790	chr3:147915657-148960790	chr3:149898347-149943480	kgp17969929	rs9827666
AHCYL1	chr1:110527386-110566364	chr1:110027386-111066364	chr1:110328830-110367887	kgp15280262	kgp8467474
AKAP12	chr6:151561133-151679694	chr6:151061133-152179694	chr6:151603201-151719602	kgp17415975	kgp17180004
AKAP13	chr15:85923870-86292586	chr15:85423870-86792586	chr15:83724874-84093590	rs11073778	kgp10945265
AKAP5	chr14:64932216-64941221	chr14:64432216-65441221	chr14:64001969-64010974	rs945029	rs4499147
AKAP9	chr7:91570188-91739987	chr7:91070188-92239987	chr7:91408127-91577925	kgp7513665	kgp8102448
AKR1C3	chr10:5005453-5149878	chr10:4505453-5649878	chr10:4995453-5139878	rs1679414	kgp8379007
AKT1	chr14:105235686-105262080	chr14:104735686-105762080	chr14:104306731-104333125	kgp10896929	kgp7260890
ANK2	chr4:113739238-114304896	chr4:113239238-114804896	chr4:113958687-114524345	kgp8454825	kgp10144793
ANKRD24	chr19:4183350-4224811	chr19:3683350-4724811	chr19:4134350-4175811	kgp3226366	rs7255543

Fig. 3-1

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
ANXA6	chr5:150480266-150537443	chr5:149980266-151037443	chr5:150460460-150517560	kgp22603058	rs11747938
ANXA7	chr10:75135188-75173841	chr10:74635188-75673841	chr10:74805194-74843847	kgp21588521	kgp5026768,rs2227568
APLP2	chr11:129939715-130014706	chr11:129439715-130514706	chr11:129445010-129519910	kgp22802171	rs7116475
AR	chrX:66763873-66950461	chrX:66263873-67450461	chrX:66680598-66860844	rs478505	kgp22776402
ARF1	chr1:228270360-228286913	chr1:227770360-228786913	chr1:226336983-226353536	kgp7035482	kgp5092378
ARF3	chr12:49329991-49351252	chr12:48829991-49851252	chr12:47616258-47637519	kgp9963537	kgp19162961
ARHGAP1	chr11:46698631-46722120	chr11:46198631-47222120	chr11:46655207-46678696	rs11038804	kgp12872953
ARHGEF1	chr19:42399421-42434296	chr19:41899421-42934296	chr19:47079106-47103444	kgp21546138	kgp9753873
ARL3	chr10:104433483-104474190	chr10:103933483-104974190	chr10:104423477-104464180	rs4919614	kgp2065500
ARL8B	chr3:5163929-5222601	chr3:4663929-5722601	chr3:5138929-5197601	kgp5083934	kgp17728482
ASCL2	chr11:2289727-2292182	chr11:1789727-2792182	chr11:2246303-2248758	kgp12845252	kgp7129584
ATF3	chr1:212738675-212794119	chr1:212238675-213294119	chr1:210805319-210860739	rs10863936	kgp12569686
ATN1	chr12:7033625-7053815	chr12:6533625-7553815	chr12:6903886-6924076	kgp18714644	kgp19128481
ATP1B1	chr1:169075946-169101960	chr1:168575946-169601960	chr1:167342570-167368584	rs10800363	kgp305361
ATP2B1	chr12:89981825-90049844	chr12:89481825-90549844	chr12:88505956-88573975	kgp4237218	kgp19117315
ATP2B2	chr3:10365706-10749716	chr3:9865706-11249716	chr3:10342743-10724716	kgp7774534	rs7625756
ATXN1	chr6:16299342-16761721	chr6:15799342-17261721	chr6:16407321-16869700	kgp2173519	rs6921352
ATXN3	chr14:92524895-92572965	chr14:92024895-93072965	chr14:91594648-91642718	kgp11986238	rs2146498
ATXN7	chr3:63850232-63989136	chr3:63350232-64489136	chr3:63825272-63964176	rs9311874	kgp797614
AVPR1A	chr12:63540215-63546590	chr12:63040215-64046590	chr12:61826482-61832857	rs952865	kgp3671976
B4GALT1	chr9:33110638-33167356	chr9:32610638-33667356	chr9:33100638-33157356	kgp18539535	kgp18370584

Fig. 3-2

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
BANK1	chr4:102341117-102995969	chr4:101841117-103495969	chr4:102560140-103214992	rs6851921	kgp20796561
BCAP31	chrX:152965946-152990201	chrX:152465946-153490201	chrX:152619145-152643081	rs6627302	kgp22764947
BCAR1	chr16:75262927-75301951	chr16:74762927-75801951	chr16:73820428-73859452	kgp7158675	kgp16367309
BCL2	chr18:60790578-60986657	chr18:60290578-61486657	chr18:58941558-59137637	rs435439	rs1720898
BMI1	chr10:22610138-22620414	chr10:22110138-23120414	chr10:22645304-22660192	kgp3019331	rs12775513
BMPR2	chr2:203241049-203432474	chr2:202741049-203932474	chr2:202949294-203140719	rs2072504	kgp3183288
BOC	chr3:112930411-113006305	chr3:112430411-113506305	chr3:114413101-114488995	kgp12164746	kgp3299668
BPGM	chr7:134331530-134364567	chr7:133831530-134864567	chr7:133982094-134015107	kgp13720725	kgp8542611
BRCA1	chr17:41196311-41322420	chr17:40696311-41822420	chr17:38449839-38530994	kgp1014784	kgp13921789
BRCA2	chr13:32889616-32973809	chr13:32389616-33473809	chr13:31787616-31871809	rs2146284	rs9596502
BRD7	chr16:50352928-50402845	chr16:49852928-50902845	chr16:48910441-48960330	kgp3843480	kgp6018549
BRF2	chr8:37701397-37707431	chr8:37201397-38207431	chr8:37820560-37826569	rs7818467	kgp22772561
BRMS1	chr11:66104803-66112582	chr11:65604803-66612582	chr11:65861379-65869158	kgp22746103	kgp12809093
BTK	chrX:100604434-100645770	chrX:100104434-101145770	chrX:100491097-100532426	kgp22759057	kgp22747202
C1orf128	chr1:24104887-24114722	chr1:23604887-24614722	chr1:23977474-23987309	kgp283495	kgp2701674
C1orf42	chr1:152486978-152488481	chr1:151986978-152988481	chr1:150753602-150755105	kgp15694971	rs4363385
C1QBP	chr17:5336098-5342471	chr17:4836098-5842471	chr17:5276822-5283195	kgp14047547	rs17825455
C20orf20	chr20:61427804-61431945	chr20:60927804-61931945	chr20:60898282-60902390	kgp9228388	kgp19363625
C20orf24	chr20:35234136-35240960	chr20:34734136-35740960	chr20:34636369-34674374	rs6060820	rs1744760
C4orf14	chr4:57829515-57843826	chr4:57329515-58343826	chr4:57524272-57538583	kgp22756132	kgp1831456
C4orf17	chr4:100432160-100463460	chr4:99932160-100963460	chr4:100651222-100682483	kgp20878925	kgp21204347

Fig. 3-3

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
C5orf25	chr5:175665369-175772990	chr5:175165369-176272990	chr5:175598008-175705596	kgp7679859	rs480782
C9orf25	chr9:34398181-34458568	chr9:33898181-34958568	chr9:34388181-34448568	kgp22772722	rs7031962
CABIN1	chr22:24407764-24574596	chr22:23907764-25074596	chr22:22737764-22904596	kgp5637302	kgp5793536
CABP1	chr12:121078421-121105127	chr12:120578421-121605127	chr12:119562804-119589510	kgp18737891	rs503720
CACNA1C	chr12:2162415-2807115	chr12:1662415-3307115	chr12:2032676-2677376	kgp9477564	kgp1276729
CALCR	chr7:93053798-93204042	chr7:92553798-93704042	chr7:92891734-93041978	kgp3815436	kgp10249142
CALD1	chr7:134464163-134655480	chr7:133964163-135155480	chr7:134114710-134306012	rs16874469	kgp22829820
CAMK2A	chr5:149599053-149669403	chr5:149099053-150169403	chr5:149579247-149649529	kgp9269229	kgp22536863
CAMK2G	chr10:75572258-75634349	chr10:75072258-76134349	chr10:75242264-75304349	kgp5617603	kgp4007437
CAMKK1	chr17:3763616-3796337	chr17:3263616-4296337	chr17:3710365-3743086	kgp4927794	kgp13998561
CAMKK2	chr12:121675494-121736111	chr12:121175494-122236111	chr12:120159877-120220494	kgp3636283,rs1800556	kgp3169612
CAPN2	chr1:223889294-223963720	chr1:223389294-224463720	chr1:221966741-222030343	rs2430408	kgp15138476
CASP3	chr4:185548849-185570629	chr4:185048849-186070629	chr4:185785843-185807623	kgp8529169	rs2046535
CASP6	chr4:110609784-110624629	chr4:110109784-111124629	chr4:110829233-110844078	kgp20840443	kgp20817413
CASP7	chr10:115438934-115490664	chr10:114938934-115990664	chr10:115428924-115480654	kgp12503193	rs12266538
CASP8	chr2:202098165-202152434	chr2:201598165-202652434	chr2:201806410-201860679	kgp6115041	rs12468196
CASR	chr3:121902529-122005344	chr3:121402529-122505344	chr3:123385219-123488034	kgp18115887	rs13095775
CAV1	chr7:115929905-116201239	chr7:115429905-116701239	chr7:115717141-115988466	kgp13705413	kgp1550529,rs13222576
CBL	chr11:119076989-119178859	chr11:118576989-119678859	chr11:118582199-118684069	kgp4184476	rs10892470
CBX1	chr17:46147413-46178883	chr17:45647413-46678883	chr17:43502412-43533882	kgp4510682	kgp14007862
CCDC106	chr19:56158953-56164526	chr19:55658953-56664526	chr19:60850765-60856338	kgp2072564	rs901476

Fig. 3-4

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
CCND1	chr11:69455872-69469242	chr11:68955872-69969242	chr11:69165053-69178423	kgp12357966	rs1893085
CCNE1	chr19:30302900-30315215	chr19:29802900-30815215	chr19:34994740-35007059	kgp21358604	kgp21349680
CCR4	chr3:32993065-32996403	chr3:32493065-33496403	chr3:32968069-32971407	rs4955290	kgp3855989
CCR5	chr3:46411632-46417697	chr3:45911632-46917697	chr3:46386636-46392701	kgp17737690	rs936173
CD163	chr12:7623411-7656414	chr12:7123411-8156414	chr12:7514676-7547681	rs9668071	kgp3219786
CD5	chr11:60869929-60895323	chr11:60369929-61395323	chr11:60626505-60651899	rs7927817	kgp13056421
CD9	chr12:6309481-6347437	chr12:5809481-6847437	chr12:6179133-6217688	rs9669580	kgp1124940
CDC2	chr10:62538235-62553924	chr10:62038235-63053924	chr10:62208241-62223930	kgp21922934	rs3125326
CDKN2C	chr1:51433607-51440309	chr1:50933607-51940309	chr1:51206195-51212897	rs17106219	kgp15324656
CENTA1	chr7:937537-994306	chr7:437537-1494306	chr7:904063-960832	kgp4856315,rs3924019	kgp11391801
CETN3	chr5:89689528-89705603	chr5:89189528-90205603	chr5:89725284-89741359	rs277054	kgp22368793
CFTR	chr7:117120016-117308718	chr7:116620016-117808718	chr7:116907252-117095954	kgp13265715	kgp13590397
CHAT	chr10:50822349-50901939	chr10:50322349-51401939	chr10:50487146-50543156	kgp8189482	kgp8898453
CHD3	chr17:7788122-7816075	chr17:7288122-8316075	chr17:7728847-7756800	rs7208523	kgp11776706
CHUK	chr10:101948123-101989344	chr10:101448123-102489344	chr10:101938113-101979334	kgp6141810	kgp9150190
CISH	chr3:50643884-50649262	chr3:50143884-51149262	chr3:50618929-50624207	kgp5610191	rs6783700
CKAP1	chr19:36605888-36616849	chr19:36105888-37116849	chr19:41297728-41308689	rs7249516	rs3108171
CKMT2	chr5:80529138-80562217	chr5:80029138-81062217	chr5:80564894-80597973	kgp9822295	kgp7416171
CLTB	chr5:175819455-175843540	chr5:175319455-176343540	chr5:175752061-175776146	rs4867811	kgp1551194
CLU	chr8:27454433-27472328	chr8:26954433-27972328	chr8:27510367-27528244	kgp886026	rs4732823
CMIP	chr16:81478774-81745367	chr16:80978774-82245367	chr16:80036394-80302866	rs11150329	kgp16425289

Fig. 3-5

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
CNGA2	chrX:150903217-150914036	chrX:150403217-151414036	chrX:150653873-150664692	rs1202896	kgp22766776
CNKSR2	chrX:21392535-21672813	chrX:20892535-22172813	chrX:21302900-21580700	kgp22768242	kgp22744096
CNN1	chr19:11649578-11661138	chr19:11149578-12161138	chr19:11510578-11522138	kgp11148982	rs8100428
CNR2	chr1:24200459-24239817	chr1:23700459-24739817	chr1:24073046-24112404	rs9887921	kgp7256331
COIL	chr17:55015560-55038411	chr17:54515560-55538411	chr17:52370559-52393410	rs7219528	kgp13879956
CORO1B	chr11:67205517-67211292	chr11:66705517-67711292	chr11:66962093-66967839	kgp8733070	kgp12910446
COX17	chr3:119388371-119396243	chr3:118888371-119896243	chr3:120871061-120878933	rs2903301	rs7634938
CPE	chr4:166300096-166419482	chr4:165800096-166919482	chr4:166519546-166638932	rs4541465	kgp20841166
CRADD	chr12:94071150-94288616	chr12:93571150-94788616	chr12:92595281-92768662	kgp18995270	rs10859694
CREM	chr10:35415768-35501886	chr10:34915768-36001886	chr10:35455806-35541892	kgp21684668	rs654221
CRIPT	chr2:46844324-46852881	chr2:46344324-47352881	chr2:46697811-46705687	kgp11216746	kgp5110136
CSNK2A1	chr20:463337-524482	chr20:1-1024482	chr20:411337-472482	kgp19358001	kgp2852236
CSNK2A2	chr16:58191811-58231782	chr16:57691811-58731782	chr16:56749312-56789283	kgp3607479	kgp9299300
CSNK2B	chr6:2919235-2923423	chr6:2919235-2923423	chr6:31741635-31748206	kgp7558035	kgp17052091
CTNNB1	chr3:41236400-41280845	chr3:40736400-41780845	chr3:41211404-41255849	kgp17791054	kgp17873276
DAPK3	chr19:3958451-3971038	chr19:3458451-4471038	chr19:3909451-3922038	kgp9392695	kgp6448823
DBN1	chr5:176883613-176900694	chr5:176383613-177400694	chr5:176816219-176833300	rs3733876	kgp6700800
DDIT4	chr10:74033676-74035797	chr10:73533676-74535797	chr10:73703682-73705803	kgp21593001	kgp10561095
DDX5	chr17:62494373-62502484	chr17:61994373-63002484	chr17:59926199-59932869	kgp14113893	rs4239089
DEFB1	chr8:6728096-6735529	chr8:6228096-7235529	chr8:6715508-6722939	kgp20078124	rs12680482
DGKD	chr2:234263152-234380743	chr2:233763152-234880743	chr2:233927891-234045482	rs12477794	rs28902188

Fig. 3-6

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
DGKZ	chr11:46354454-46402104	chr11:45854454-46902104	chr11:46311314-46358680	rs2090602	kgp22737291
DIRAS2	chr9:93372113-93405108	chr9:92872113-93905108	chr9:92411933-92444928	rs7860989	kgp10944799
DLG1	chr3:196769430-197026143	chr3:196269430-197526143	chr3:198253827-198510540	kgp18074003	rs841672
DLG3	chrX:69664704-69725339	chrX:69164704-70225339	chrX:69581448-69642062	kgp22756738	kgp22752290
DLG4	chr17:7093209-7123369	chr17:6593209-7623369	chr17:7033933-7063781	kgp10999626	rs3744258
DNM1	chr9:130965662-131017527	chr9:130465662-131517527	chr9:130005483-130057348	kgp1183767	rs4836625
DNM3	chr1:171810620-172381857	chr1:171310620-172881857	chr1:170077260-170648480	kgp15671556	rs2213746
DNMT2	chr10:17184981-17243681	chr10:16684981-17743681	chr10:17224987-17283687	kgp1566842	kgp21855354
DPYSL2	chr8:26371708-26515693	chr8:25871708-27015693	chr8:26427707-26571610	rs11998023	rs12544814
DRD1	chr5:174867674-174871163	chr5:174367674-175371163	chr5:174800280-174803769	kgp4432341	kgp8293487
DRD1IP	chr5:174867675-174871163	chr5:174367675-175371163	chr5:174800281-174803769	kgp4432341	kgp8293487
DST	chr6:56479153-56716714	chr6:55979153-57216714	chr6:56430743-56816422	kgp1980963	rs12209200
DVL1	chr1:1270657-1284492	chr1:770657-1784492	chr1:1260520-1274355	kgp4076808	kgp15201879
DVL2	chr17:7128660-7137863	chr17:6628660-7637863	chr17:7069384-7078587	kgp1788685	kgp2456831,rs3744255
DVL3	chr3:183873283-183891314	chr3:183373283-184391314	chr3:185355977-185374008	kgp10156744	kgp4088221
EDF1	chr9:139756570-139760738	chr9:139256570-140260738	chr9:138876391-138880559	rs3829109	kgp4292076
EDG3	chr9:91606324-91620069	chr9:91106324-92120069	chr9:90796144-90809889	kgp18366537	kgp113389
EDG5	chr19:10332109-10341948	chr19:9832109-10841948	chr19:10193109-10202948	kgp21505357	kgp12277401
EDG8	chr19:10623418-10628668	chr19:10123418-11128668	chr19:10484418-10489668	rs4804478	kgp9055694
EEF1D	chr8:144661866-144679845	chr8:144161866-145179845	chr8:144733040-144750726	kgp20077380	kgp4311396
EEF2	chr19:3976053-3985461	chr19:3476053-4485461	chr19:3927053-3936461	kgp21334437	rs10406730

Fig. 3-7

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
EFNB1	chrX:68048839-68066029	chrX:67548839-68566029	chrX:67965564-67982754	rs7879567	kgp22774708
EFNB2	chr13:107142078-107187388	chr13:106642078-107687388	chr13:105940096-105985338	rs9587049	kgp1472981
EIF1B	chr3:40351172-40353915	chr3:39851172-40853915	chr3:40326176-40328919	kgp17543799	kgp724180
ENO2	chr12:7023613-7032859	chr12:6523613-7532859	chr12:6893874-6903120	kgp6644683	kgp18788179
EPB41	chr1:29213602-29446558	chr1:28713602-29946558	chr1:29086214-29319545	kgp15837735	kgp8194212
EPB41L1	chr20:34679425-34820721	chr20:34179425-35320721	chr20:34142839-34284135	rs1886695	kgp10646202
EPB41L2	chr6:131160487-131384462	chr6:130660487-131884462	chr6:131202180-131426058	kgp3398782	kgp16921144
EPHB2	chr1:23037330-23241823	chr1:22537330-23741823	chr1:22909917-23114410	rs2473249	kgp22776625
ESR1	chr6:152011630-152424408	chr6:151511630-152924408	chr6:152053323-152466101	rs9478984	rs818451
ESR2	chr14:64693750-64805268	chr14:64193750-65305268	chr14:63763503-63875021	kgp3039416	kgp8515773
ESRRG	chr1:216676587-217311097	chr1:216176587-217811097	chr1:214743210-215377720	kgp2104463	kgp3054869
ETHE1	chr19:44010870-44031396	chr19:43510870-44531396	chr19:48702710-48723236	rs11668932	kgp561363
EWSR1	chr22:29663997-29696515	chr22:29163997-30196515	chr22:27994016-28026515	rs6005868	rs4823054
F11R	chr1:160965000-161008774	chr1:160465000-161508774	chr1:159231624-159275404	rs678456	kgp10744728
FADD	chr11:70049268-70053508	chr11:69549268-70553508	chr11:69726916-69731134	kgp12619639	kgp12640488
FAS	chr10:90729552-90775542	chr10:90229552-91275542	chr10:90740267-90765522	kgp6970830	kgp1640747
FBLIM1	chr1:16083153-16113084	chr1:15583153-16613084	chr1:15955740-15985671	rs16851480	kgp15648830
FER	chr5:108083522-108523373	chr5:107583522-109023373	chr5:108111421-108551272	rs11958626	rs845734
FEZ1	chr11:125315640-125366206	chr11:124815640-125866206	chr11:124820857-124871333	rs10160591	kgp12966369
FEZ2	chr2:36779403-36825332	chr2:36279403-37325332	chr2:36632904-36678836	kgp10246319	kgp9712350
FFAR1	chr19:35842444-35843367	chr19:35342444-36343367	chr19:40534294-40535197	rs8106116	kgp21511691

Fig. 3-8

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
FFAR2	chr19:35939202-35941865	chr19:35439202-36441865	chr19:40631042-40633705	rs2112502	rs7247246
FKBP1A	chr20:1349620-1373816	chr20:849620-1873816	chr20:1297621-1321745	kgp4567229	kgp10348674
FLJ31945	chr13:50699952-50702599	chr13:50199952-51202599	chr13:49597953-49600600	kgp9786864	kgp16621897
FLJ41278	chr12:65277553-65371302	chr12:64777553-65871302	chr12:63563820-63657569	rs6581555	kgp1662303
FLNA	chrX:153576899-153603006	chrX:153076899-154103006	chrX:153230093-153256200	rs7049293	rs28412378
FLNB	chr3:57994126-58157982	chr3:57494126-58657982	chr3:57969166-58133017	rs7629743	rs11130670
FREQ	chr9:132934856-132999583	chr9:132434856-133499583	chr9:131974677-132039404	kgp12208188	kgp18380808
FRS2	chr12:69864128-69973562	chr12:69364128-70473562	chr12:68150395-68259829	kgp19095191	kgp12534834
FSHR	chr2:49189295-49381666	chr2:48689295-49881666	chr2:49043155-49235134	kgp297164	kgp11229604
FXN	chr9:71650478-71715094	chr9:71150478-72215094	chr9:70840163-70878772	rs265076	kgp213209
FXR1	chr3:180630233-180700539	chr3:180130233-181200539	chr3:182113145-182177647	kgp22773686	kgp3235523
G6PD	chrX:153759605-153775787	chrX:153259605-154275787	chrX:153412799-153428981	rs2239471	kgp22745531
GABRR1	chr6:89887222-89927496	chr6:89387222-90427496	chr6:89944690-89983779	kgp3728710	kgp17056993
GABRR2	chr6:89967238-90024967	chr6:89467238-90524967	chr6:90023957-90081686	kgp16994883	kgp9012178
GALR2	chr17:74070891-74073573	chr17:73570891-74573573	chr17:71582486-71585168	rs1042861	rs16967307
GAP43	chr3:115342150-115440334	chr3:114842150-115940334	chr3:116825141-116922842	rs10511341	kgp18168870
GC	chr4:72607410-72671237	chr4:72107410-73171237	chr4:72826274-72888622	rs10013437	kgp12025264
GFAP	chr17:42982993-42992920	chr17:42482993-43492920	chr17:40338518-40348394	rs8066197	rs12947718
GFI1	chr1:92940317-92952433	chr1:92440317-93452433	chr1:92712905-92725021	kgp80379	kgp15436210
GFI1B	chr9:135853893-135867084	chr9:135353893-136367084	chr9:134843714-134856903	kgp1227599	kgp22817803
GFPT1	chr2:69546900-69614386	chr2:69046900-70114386	chr2:69405910-69467829	kgp7360674	kgp14824626

Fig. 3-9

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
GH1	chr17:61994562-61996198	chr17:61494562-62496198	chr17:59348294-59349930	kgp6455446	kgp10132757
GIT1	chr17:27900486-27916610	chr17:27400486-28416610	chr17:24924612-24940736	kgp14082001	rs8065059
GIT2	chr12:110367606-110434194	chr12:109867606-110934194	chr12:108851991-108918483	kgp8064273	kgp556710
GJA1	chr6:121756744-121770873	chr6:121256744-122270873	chr6:121798443-121812572	kgp5203283	kgp1494786
GJB1	chrX:70435061-70445065	chrX:69935061-70945065	chrX:70351786-70361777	kgp22820938	rs35542412
GMFB	chr14:54941208-54955744	chr14:54441208-55455744	chr14:54010958-54025494	kgp5212952	kgp7377769
GNA12	chr7:2767740-2883959	chr7:2267740-3383959	chr7:2734266-2850485	kgp9177535	kgp13694655
GNAS	chr20:57414794-57486250	chr20:56914794-57986250	chr20:56848189-56919645	rs471661	rs729997
GNAZ	chr22:23412668-23467221	chr22:22912668-23967221	chr22:21742668-21797221	kgp15075658	rs9680742
GPM6A	chr4:176554087-176923648	chr4:176054087-177423648	chr4:176791081-177160642	rs6849435	kgp8852764
GPSM2	chr1:109419602-109476957	chr1:108919602-109976957	chr1:109221125-109274567	kgp15175401	kgp15178378
GRB14	chr2:165349322-165478360	chr2:164849322-165978360	chr2:165057568-165186606	kgp8982508	kgp14153450
GRIA2	chr4:158141294-158287226	chr4:157641294-158787226	chr4:158361185-158506676	kgp22818527	rs6836401
GRIA3	chrX:122318095-122624766	chrX:121818095-123124766	chrX:122145776-122452447	rs7057244	rs12559968
GRIA4	chr11:105480799-105852819	chr11:104980799-106352819	chr11:104986009-105358029	kgp12888967	kgp2959570
GRIN1	chr9:140033608-140063214	chr9:139533608-140563214	chr9:139153429-139183029	kgp18425565	kgp18521447
GRIN2A	chr16:9847264-10276611	chr16:9347264-10776611	chr16:9762922-10184112	kgp16441783	rs9932893
GRIN2B	chr12:13714409-14133022	chr12:13214409-14633022	chr12:13605676-14024289	rs3741818	kgp7391296
GRK1	chr13:114321596-114438637	chr13:113821596-114938637	chr13:113369597-113373973	kgp16671784	rs11147317
GRK4	chr4:2965342-3042474	chr4:2465342-3542474	chr4:2935140-3012272	rs846252	rs6821202
GSK3A	chr19:42734337-42746736	chr19:42234337-43246736	chr19:47426177-47438576	kgp21481263	kgp10870487

Fig. 3-10

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
GSK3B	chr3:119540801-119813264	chr3:119040801-120313264	chr3:121028235-121295203	kgp17616951	kgp4570827
GSTM4	chr1:110198697-110208123	chr1:109698697-110708123	chr1:110000225-110009648	rs595635	kgp15760598
HABP4	chr9:99212413-99253618	chr9:98712413-99753618	chr9:98252234-98293439	kgp18578220	kgp18630342
HAND1	chr5:153854531-153857824	chr5:153354531-154357824	chr5:153834724-153838017	kgp7530958	rs2431184
HAND2	chr4:174447651-174451378	chr4:173947651-174951378	chr4:174684226-174687953	kgp20847640	kgp20778226
HARS	chr5:140053489-140070971	chr5:139553489-140570971	chr5:140033673-140051155	rs6874491	rs12654953
HDAC6	chrX:48660286-48683380	chrX:48160286-49183380	chrX:48545430-48568324	kgp22835768	rs2015487
HES1	chr3:193853930-193856401	chr3:193353930-194356401	chr3:195336627-195339090	kgp11414670	rs7649259
HLA-A	chr6:1150035-1295564	chr6:1150035-1295564	chr6:30018304-30085130	rs9392258	rs9391920
HLA-C	chr6:2585738-2671188	chr6:2585738-2671188	chr6:2486041-2572197	rs9392400	kgp1905253
HLA-DQA2	chr6:4166320-4171833	chr6:4166320-4171833	chr6:3895192-3901275	kgp17451336	kgp17218419
HMGB1	chr13:31032878-31191510	chr13:30532878-31691510	chr13:29930878-30089510	rs1557088	kgp8054835
HMGN1	chr21:40714240-40721047	chr21:40214240-41221047	chr21:39636110-39643140	kgp4524272	kgp8317624
HMGN2	chr1:26798901-26803133	chr1:26298901-27303133	chr1:26671488-26675720	rs1429936	kgp8260087
HMMR	chr5:162887516-162918953	chr5:162387516-163418953	chr5:162820240-162851525	kgp9548441	rs1363073
HMOX2	chr16:4524718-4560348	chr16:4024718-5060348	chr16:4464719-4500349	kgp16414002	kgp7117794
HMP19	chr5:173472723-173536182	chr5:172972723-174036182	chr5:173405329-173468788	kgp22404239	rs12186684
HOMER2	chr15:83517728-83621476	chr15:83017728-84121476	chr15:81314789-81412477	rs1267659	kgp4123064
HRH4	chr18:22040592-22059921	chr18:21540592-22559921	chr18:20294590-20313919	rs7235445	kgp7887799
HSP90AA1	chr14:102547074-102606086	chr14:102047074-103106086	chr14:101616827-101675839	kgp3260354	kgp19714004
HSPA1A	chr6:31783290-31785719	chr6:31283290-32285719	chr6:31891315-31893698	kgp4709627	rs9296020

Fig. 3-11

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
HSPA1B	chr6:3089162-3091686	chr6:3089162-3091686	chr6:3043109-3045633	kgp6503147	kgp5869121
HSPA4	chr5:132387661-132440709	chr5:131887661-132940709	chr5:132415560-132468608	kgp22352512	kgp7658141
HSPB1	chr7:75931874-75933614	chr7:75431874-76433614	chr7:75769858-75771546	kgp4195218	kgp10852432
HSPB3	chr5:53751430-53752214	chr5:53251430-54252214	chr5:53787201-53787964	rs16881895	rs3815916
HSPB8	chr12:119616594-119632551	chr12:119116594-120132551	chr12:118100977-118116934	kgp18981306	kgp18823622
HSPBP1	chr19:55773590-55791751	chr19:55273590-56291751	chr19:60465518-60483540	kgp3134010	kgp21533588
HSPE1	chr2:198364720-198368187	chr2:197864720-198868187	chr2:198073364-198076416	kgp9884304	kgp12004769
HSPH1	chr13:31710762-31736502	chr13:31210762-32236502	chr13:30608762-30634502	kgp16548529	kgp16811501
HTATIP	chr11:20385289-20405329	chr11:19885289-20905329	chr11:20341865-20361905	rs2707094	kgp309631
HTR2B	chr2:231972949-231989824	chr2:231472949-232489824	chr2:231681198-231698068	rs6761068	rs4973459
HTR2C	chrX:113818550-114144624	chrX:113318550-114644624	chrX:113724806-114050880	rs7055827	kgp22830072
HTR6	chr1:19991779-20006055	chr1:19491779-20506055	chr1:19864366-19878642	kgp15912015	kgp10523409
IGSF4	chr11:115044345-115375241	chr11:114544345-115875241	chr11:114549555-114880451	rs1607260	rs7928212
IKBKB	chr8:42128819-42190171	chr8:41628819-42690171	chr8:42247985-42309122	kgp9748756	kgp3164559
IKBKE	chr1:206643585-206670223	chr1:206143585-207170223	chr1:204710418-204736845	kgp15543770	kgp6359437
IKBKG	chrX:153770458-153793261	chrX:153270458-154293261	chrX:153423652-153446455	rs633	kgp22831959
IL4R	chr16:27325250-27376099	chr16:26825250-27876099	chr16:27232751-27283600	kgp11144142	kgp16489203
IL5RA	chr3:3108007-3152058	chr3:2608007-3652058	chr3:3086420-3127031	kgp10211459	kgp22835987
IL8RA	chr2:219027567-219031716	chr2:218527567-219531716	chr2:218735812-218739961	kgp14521358	rs16859170
INSR	chr19:7112265-7294011	chr19:6612265-7794011	chr19:7063265-7245011	kgp5914741	kgp21453659
IQCB1	chr3:121488609-121553926	chr3:120988609-122053926	chr3:122971299-123036616	rs11921531	rs6438722

Fig. 3-12

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
IQGAP1	chr15:90931472-91045475	chr15:90431472-91545475	chr15:88732476-88846479	kgp1876985	kgp20028694
IRAK1	chrX:153275956-153285342	chrX:152775956-153785342	chrX:152929150-152938536	kgp22756383	rs6643680
IRS1	chr2:227596032-227663506	chr2:227096032-228163506	chr2:227304276-227371750	kgp12414080	kgp9391097
IRS4	chrX:107975726-107979607	chrX:107475726-108479607	chrX:107862367-107866295	kgp22794644	rs5985712
ITGB2	chr21:46305867-46348753	chr21:45805867-46848753	chr21:45130296-45173181	kgp13225366	rs11702782
ITGB3BP	chr1:63906440-63988944	chr1:63406440-64488944	chr1:63679049-63761423	rs1572109	kgp5171315
ITGB4	chr17:73717515-73753899	chr17:73217515-74253899	chr17:71229110-71265494	kgp2663142	kgp4575494
ITGB5	chr3:124481794-124606144	chr3:123981794-125106144	chr3:125964484-126088834	kgp5281659	kgp17765518
ITPKA	chr15:41786055-41795757	chr15:41286055-42295757	chr15:39573413-39583039	kgp22747722	kgp10507061
ITPKB	chr1:226819390-226926876	chr1:226319390-227426876	chr1:224886013-224991987	rs1219671	rs7519099
ITPR3	chr6:33589155-33664348	chr6:33089155-34164348	chr6:33697138-33772326	rs3117030	kgp4515850
IXL	chr19:39881963-39891203	chr19:39381963-40391203	chr19:44573803-44583043	kgp986483	kgp6117029
JAK1	chr1:65298905-65432619	chr1:64798905-65932619	chr1:65071493-65205207	kgp8976721	kgp9745392
KCNE1	chr21:35818987-35884573	chr21:35318987-36384573	chr21:34740857-34806443	kgp13187567	kgp5041106
KCNE4	chr2:223916861-223920355	chr2:223416861-224420355	chr2:223625105-223628599	kgp14948218	kgp14631899
KCNH2	chr7:150642043-150675402	chr7:150142043-151175402	chr7:150272981-150305947	kgp13542655	kgp7948285
KCNJ2	chr17:68164813-68176183	chr17:67664813-68676183	chr17:65676408-65687778	rs6501341	kgp2814913
KCNN2	chr5:113698015-113832197	chr5:113198015-114332197	chr5:113725914-113860096	kgp9619904	rs10056549
KCNN4	chr19:44270684-44285409	chr19:43770684-44785409	chr19:48962524-48977249	rs6509074	kgp21388839
KCNQ2	chr20:62037541-62103993	chr20:61537541-62603993	chr20:61507985-61574437	rs16983364	kgp19265466
KCNQ3	chr8:133133104-133493004	chr8:132633104-133993004	chr8:133210437-133562186	kgp20244043	rs4074676

Fig. 3-13

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
KCNQ5	chr6:73331570-73908573	chr6:72831570-74408573	chr6:73388555-73962301	kgp7790415	rs9446983
KDR	chr4:55944425-55991762	chr4:55444425-56491762	chr4:55639405-55686519	kgp11624145	rs10022874
KIAA1377	chr11:101785745-101871793	chr11:101285745-102371793	chr11:101290955-101377003	kgp12804311	rs9667864
KIAA1549	chr7:138516126-138666064	chr7:138016126-139166064	chr7:138166666-138255110	rs11769851	kgp10209774
KIF3A	chr5:132028322-132073265	chr5:131528322-132573265	chr5:132056221-132101164	rs3805685	rs4958109
KIT	chr4:55524094-55606881	chr4:55024094-56106881	chr4:55218851-55301638	kgp4467115	kgp9403472
KLHL20	chr1:173684079-173755840	chr1:173184079-174255840	chr1:171950702-172022463	rs13374515	kgp5594942
KLHL3	chr5:136953188-137071779	chr5:136453188-137571779	chr5:136981087-137099678	rs2966736	rs10040989
KLK10	chr19:51515999-51523431	chr19:51015999-52023431	chr19:56207811-56215243	kgp9495392	kgp21503250
KRAS	chr12:25358179-25403854	chr12:24858179-25903854	chr12:25249446-25295121	kgp19038229	kgp1316534
KRT10	chr17:38974368-38978863	chr17:38474368-39478863	chr17:36227894-36232373	kgp7164026	kgp6621387
KRT18	chr12:53342654-53346685	chr12:52842654-53846685	chr12:51628921-51632952	rs406857	rs11834179
LCK	chr1:32716839-32751766	chr1:32216839-33251766	chr1:32489426-32524353	rs12037400	kgp6229337
LGALS2	chr22:37966252-37976024	chr22:37466252-38476024	chr22:36296198-36305970	kgp14999686	rs8135665
LMNA	chr1:156052368-156108548	chr1:155552368-156608548	chr1:154318992-154375172	kgp11675488	rs12408758
LMNB1	chr5:126112314-126172712	chr5:125612314-126672712	chr5:126140731-126200608	kgp5014465	kgp22418220
LOC100133669	chr8:144063447-144099807	chr8:143563447-144599807	chr8:144134822-144171182	rs10875483	kgp10850793
LOC154092	chr6:134758853-134825158	chr6:134258853-135325158	chr6:134800546-134866851	kgp11630779	kgp22793805
LOC339290	chr18:5238098-5246505	chr18:4738098-5746505	chr18:5222874-5228525	kgp5290787	kgp989326
LOC340357	chr8:12623570-12668910	chr8:12123570-13168910	chr8:12667941-12713281	kgp22754906	kgp20305069
LOC400604	chr17:48944039-48945732	chr17:48444039-49445732	chr17:46299038-46300731	kgp11815481	kgp10163248

Fig. 3-14

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
LOC613126	chr7:91763906-91771854	chr7:91263906-92271854	chr7:91601842-91609790	kgp13774218	rs3731343
LTB4R	chr14:24780704-24787242	chr14:24280704-25287242	chr14:23850544-23855992	kgp19673807	rs8007336
LTF	chr3:46477495-46526724	chr3:45977495-47026724	chr3:46452499-46501728	kgp17788490	kgp1176589
LXN	chr3:158384202-158390482	chr3:157884202-158890482	chr3:159866899-159873176	rs6764092	kgp7955381
LYST	chr1:235824344-236030220	chr1:235324344-236530220	chr1:233890968-234096843	rs2295815	kgp9270301
MAD2L1BP	chr6:43597278-43608688	chr6:43097278-44108688	chr6:43705256-43716666	rs1537638	kgp1522302
MAGED1	chrX:51546154-51645450	chrX:51046154-52145450	chrX:51562894-51662190	kgp22779908	kgp22784919
MAP1A	chr15:43809805-43823818	chr15:43309805-44323818	chr15:41597097-41611110	kgp12180163	kgp10318377
MAP1LC3A	chr20:33134691-33148149	chr20:32634691-33648149	chr20:32598352-32611810	kgp19388199	kgp5639543
MAP2K1	chr15:66679210-66783882	chr15:66179210-67283882	chr15:64466264-64570936	kgp19795142	kgp382480
MAP2K4	chr17:11924134-12047051	chr17:11424134-12547051	chr17:11864859-11987776	rs16944942	rs9915536
MAP2K5	chr15:67835020-68099455	chr15:67335020-68599455	chr15:65622074-65886506	kgp19854650	kgp20006731
MAP3K10	chr19:40697650-40721482	chr19:40197650-41221482	chr19:45389490-45413314	kgp6290284	rs2561531
MAP3K3	chr17:61699774-61773670	chr17:61199774-62273670	chr17:59053506-59127402	kgp14048701	kgp5230870
MAP3K7	chr6:91225352-91296907	chr6:90725352-91796907	chr6:91282073-91353628	rs9451316	rs9451576
MAP3K7IP1	chr22:39745953-39827887	chr22:39245953-40327887	chr22:38075899-38157833	kgp10431646	rs137981
MAP3K7IP2	chr6:149639062-149732747	chr6:149139062-150232747	chr6:149680755-149774440	kgp9485571	kgp9110056
MAP3K8	chr10:30722949-30750762	chr10:30222949-31250762	chr10:30762871-30790767	kgp22034763	kgp11496819
MAP6	chr11:75297962-75379479	chr11:74797962-75879479	chr11:74975610-75057127	rs11236323	kgp695651
MAPK14	chr6:35995453-36079013	chr6:35495453-36579013	chr6:36103550-36186513	rs4711420	kgp10854130
MAPK3	chr16:30125425-30134630	chr16:29625425-30634630	chr16:30032926-30042131	kgp11463254	kgp2105557

Fig. 3-15

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
MARCKS	chr6:114178526-114184652	chr6:113678526-114684652	chr6:114285219-114291345	kgp17187839	kgp1113238
MBP	chr18:74690788-74844774	chr18:74190788-75344774	chr18:72819776-72973762	kgp5208536	rs12960102
MCC	chr5:112357795-112824527	chr5:111857795-113324527	chr5:112385694-112852426	kgp22530369	kgp22589538
MGMT	chr10:131265453-131565783	chr10:130765453-132065783	chr10:131155455-131455358	kgp11264334	kgp1514587
MIP	chr12:56843285-56848435	chr12:56343285-57348435	chr12:55130150-55134696	kgp19052399,rs11834873	kgp18750923
MLF2	chr12:6857935-6876641	chr12:6357935-7376641	chr12:6728196-6746902	kgp18998724	rs1001653
MLLT3	chr9:20344967-20622514	chr9:19844967-21122514	chr9:20334967-20612514	kgp18504776	rs1016129
MNAT1	chr14:61201458-61435398	chr14:60701458-61935398	chr14:60271222-60505151	kgp5293246	rs7142051
MPHOSPH6	chr16:82181766-82203829	chr16:81681766-82703829	chr16:80739267-80761330	kgp406017	rs3852734
MRPS12	chr19:39421347-39423659	chr19:38921347-39923659	chr19:44113187-44115499	kgp21348524	kgp21366907
MRPS6	chr21:35445822-35515334	chr21:34945822-36015334	chr21:34367692-34437204	kgp11037760	rs2834555
MRVI1	chr11:10594637-10715535	chr11:10094637-11215535	chr11:10551213-10672111	rs7946995	kgp11739225
MSN	chrX:64887510-64961793	chrX:64387510-65461793	chrX:64804235-64878518	rs7887705	kgp22760405
MYF5	chr12:81110707-81113447	chr12:80610707-81613447	chr12:79634838-79637578	rs12313692	kgp5599463
MYF6	chr12:81101407-81103256	chr12:80601407-81603256	chr12:79625576-79627382	rs7954738	rs7972054
MYLK	chr3:123331142-123603149	chr3:122831142-124103149	chr3:124813832-125085839	kgp9270532	rs510324
MYO10	chr5:16662015-16936385	chr5:16162015-17436385	chr5:16715015-16989385	kgp22359577	kgp12241403
MYO7A	chr11:76839309-76926286	chr11:76339309-77426286	chr11:76516957-76603934	rs2186677	kgp304899
MYO9B	chr19:17186590-17324104	chr19:16686590-17824104	chr19:17047595-17185104	kgp21430919	kgp4164870
MYOC	chr1:171604556-171621823	chr1:171104556-172121823	chr1:169871179-169888396	rs1736563	kgp1482992
MYOD1	chr11:17741109-17743678	chr11:17241109-18243678	chr11:17697685-17700254	kgp10809253	rs12285714

Fig. 3-16

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
MYOG	chr1:203052256-203055377	chr1:202552256-203555377	chr1:201318879-201322000	rs4950858	rs2798625
MYOT	chr5:137022409-137223540	chr5:136522409-137723540	chr5:137231472-137251440	kgp22294838	kgp5559791
MYT1L	chr2:1792884-2335045	chr2:1292884-2835045	chr2:1771891-2314052	kgp356515	kgp7720594
NACA	chr12:57106210-57119326	chr12:56606210-57619326	chr12:55392477-55405593	rs4759218	kgp11483848
NCALD	chr8:102698769-103137135	chr8:102198769-103637135	chr8:102767945-103206311	kgp11277997	rs16869664
NCF1C	chr7:74572383-74587816	chr7:74072383-75087816	chr7:74210380-74225695	kgp7635479	kgp954065
NCL	chr2:232319458-232329205	chr2:231819458-232829205	chr2:232027702-232037449	rs13415867	kgp12447433
NCOR2	chr12:124808956-125052010	chr12:124308956-125552010	chr12:123397062-123617963	rs11057368	kgp12274490
NEUROD1	chr2:182540832-182545392	chr2:182040832-183045392	chr2:182249438-182253626	kgp7038037	rs12612546
NF2	chr22:29999544-30094589	chr22:29499544-30594589	chr22:28329544-28424589	kgp15024372	kgp10478391
NFASC	chr1:204797781-204991950	chr1:204297781-205491950	chr1:203064445-203258572	rs12044614	kgp11817505
NFATC1	chr18:77155771-77289323	chr18:76655771-77789323	chr18:75256759-75390311	rs12150804	kgp11226294
NFATC2	chr20:50007764-50179168	chr20:49507764-50679168	chr20:49441171-49612777	rs761240	kgp19325060
NFKB2	chr10:104154228-104162281	chr10:103654228-104662281	chr10:104144218-104152271	kgp11777223	rs7897654
NFKBIB	chr19:39390339-39399534	chr19:38890339-39899534	chr19:44082454-44091374	kgp21403480	kgp4374047
NFKBIE	chr6:44225902-44233525	chr6:43725902-44733525	chr6:44333880-44341503	rs866236	kgp11221406
NGB	chr14:77731833-77737655	chr14:77231833-78237655	chr14:76801586-76807408	kgp4649405	rs11622713
NHP2L1	chr22:42069936-42084913	chr22:41569936-42584913	chr22:40399882-40414859	kgp22806642	kgp282841
NOS1	chr12:117645946-117799607	chr12:117145946-118299607	chr12:116135361-116283965	rs11068156	kgp763518
NP	chr14:20937541-20945248	chr14:20437541-21445248	chr14:20007381-20015088	kgp8768601	kgp19427360
NPHP1	chr2:110880913-110962639	chr2:110380913-111462639	chr2:110238202-110319928	rs10496434	kgp3845148

Fig. 3-17

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
NRBP1	chr2:27650656-27665124	chr2:27150656-28165124	chr2:27504160-27518628	kgp14600002	kgp14258181
NRGN	chr11:124609828-124617102	chr11:124109828-125117102	chr11:124115038-124122312	kgp483624	kgp5783287
NUCB1	chr19:49403306-49426540	chr19:48903306-49926540	chr19:54095380-54118339	kgp282275	kgp9015400
OBSCN	chr1:228395860-228566575	chr1:227895860-229066575	chr1:226462483-226633198	kgp22809391	kgp706951
OGG1	chr3:9791627-9808353	chr3:9291627-10308353	chr3:9765704-9783342	rs17744749	rs1642974
OPRK1	chr8:54138275-54164194	chr8:53638275-54664194	chr8:54300828-54326747	kgp11808605	kgp7186378
OPRM1	chr6:154360442-154568001	chr6:153860442-155068001	chr6:154402135-154609693	kgp22790919	kgp7491549
P2RY1	chr3:152552735-152555843	chr3:152052735-153055843	chr3:154035425-154038533	rs4472028	kgp1812100
PA2G4	chr12:56498102-56507694	chr12:55998102-57007694	chr12:54784369-54793961	kgp18842835	rs12308290
PABPC4	chr1:40026484-40042521	chr1:39526484-40542521	chr1:39799074-39815003	rs6692557	rs6681804
PAEP	chr9:138453603-138458622	chr9:137953603-138958622	chr9:137593424-137598443	kgp4360258	rs11103302
PAFAH1B1	chr17:2496922-2588909	chr17:1996922-3088909	chr17:2443672-2535659	kgp13951566	kgp4861640
PAM	chr5:102201526-102366808	chr5:101701526-102866808	chr5:102229425-102393316	rs10075318	kgp4660412
PARD6A	chr16:67694850-67696681	chr16:67194850-68196681	chr16:66252351-66254182	kgp16268099,rs1106304	kgp16328412
PARD6B	chr20:49348080-49370278	chr20:48848080-49870278	chr20:48781487-48803685	kgp19335956	kgp19356310
PARD6G	chr18:77915116-78005397	chr18:77415116-78505397	chr18:76016105-76106388	kgp15973881	rs12960632
PAWR	chr12:79985744-80084790	chr12:79485744-80584790	chr12:78509875-78608921	rs2950386	kgp19124809
PCNT	chr21:47744035-47865682	chr21:47244035-48365682	chr21:46568463-46690110	kgp13165624	rs10483083
PCP4	chr21:41239346-41301322	chr21:40739346-41801322	chr21:40161216-40223192	kgp5198475	rs2837624
PDC	chr1:186412697-186430239	chr1:185912697-186930239	chr1:184679337-184696862	kgp15446019	kgp15206197
PDCD8	chrX:129263338-129299861	chrX:128763338-129799861	chrX:129091019-129127542	rs3131260	kgp22747824

Fig. 3-18

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
PDCL	chr9:125580375-125590935	chr9:125080375-126090935	chr9:124620443-124630661	kgp11050939	rs7341862
PDE1A	chr2:183007182-183387507	chr2:182507182-183887507	chr2:182715427-183095498	kgp205462	kgp14271078
PDE4DIP	chr1:144676436-145076186	chr1:144176436-145576186	chr1:143388229-143787436	rs7548928	kgp15506281
PDE6D	chr2:232597146-232645974	chr2:232097146-233145974	chr2:232305390-232354218	kgp448503	rs11686328
PDIA2	chr16:330605-337209	chr16:1-837209	chr16:270606-277210	kgp4861413	rs3817833
PDLIM7	chr5:176910394-176924602	chr5:176410394-177424602	chr5:176843000-176857208	kgp10474318	kgp9286031
PDPK1	chr16:2587969-2653189	chr16:2087969-3153189	chr16:2527970-2593190	rs11876	rs2741932
PEA15	chr1:160175124-160185162	chr1:159675124-160685162	chr1:158441750-158451786	kgp15388960	kgp4800109
PELO	chr5:52083773-52098452	chr5:51583773-52598452	chr5:52119530-52134209	kgp7417119	kgp22419632
PFDN1	chr5:139624634-139682689	chr5:139124634-140182689	chr5:139604818-139662873	kgp2976589	rs3733707
PFDN4	chr20:52824501-52836492	chr20:52324501-53336492	chr20:52257908-52269899	kgp2671049	kgp19401284
PFDN5	chr12:53689234-53693234	chr12:53189234-54193234	chr12:51975501-51979501	kgp9320945	kgp18934893
PFKFB2	chr1:207207760-207254368	chr1:206707760-207754368	chr1:205293242-205320991	rs6666087	kgp15524399
PFN1	chr17:4848946-4851825	chr17:4348946-5351825	chr17:4789691-4792570	kgp459103	rs11869909
PGK1	chrX:77359665-77382324	chrX:76859665-77882324	chrX:77246321-77268980	kgp22784498	kgp22747606
PHKA1	chrX:71798663-71934029	chrX:71298663-72434029	chrX:71715388-71850754	kgp22784635	kgp22830838,rs5982097
PHKA2	chrX:18910415-19002480	chrX:18410415-19502480	chrX:18820336-18912401	kgp22820040	kgp22735291
PHKG1	chr7:56148674-56160689	chr7:55648674-56660689	chr7:56116168-56128183	rs4947514	kgp13251786
PIAS4	chr19:4007748-4038067	chr19:3507748-4538067	chr19:3958748-3989067	kgp21496330	rs966384
PIK3C3	chr18:39535198-39661446	chr18:39035198-40161446	chr18:37789196-37915444	kgp16093917	kgp16001617
PIK3CG	chr7:106505722-106547592	chr7:106005722-107047592	chr7:106292958-106334828	kgp13830163	kgp58259

Fig. 3-19

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
PLCB2	chr15:40580097-40600174	chr15:40080097-41100174	chr15:38367389-38387466	rs594863	kgp19835274
PLCD1	chr3:38048986-38071154	chr3:37548986-38571154	chr3:38023990-38046137	rs155528	kgp8999289
PLD1	chr3:171318194-171528504	chr3:170818194-172028504	chr3:172801338-173011198	kgp17613784	kgp17918658
PLD2	chr17:4710395-4726727	chr17:4210395-5226727	chr17:4657377-4673694	rs9915202	kgp10024037
PLEKHA4	chr19:49340353-49371884	chr19:48840353-49871884	chr19:54032166-54063670	kgp21466232	kgp7036888
PLK1	chr16:23690200-23701688	chr16:23190200-24201688	chr16:23597701-23609189	kgp6012631	kgp22747639
POLA2	chr11:65029431-65065088	chr11:64529431-65565088	chr11:64786007-64821664	rs637332	rs12800057
POLB	chr8:42195972-42229331	chr8:41695972-42729331	chr8:42315186-42348470	kgp20057794	kgp20541648
POLR2C	chr16:57496550-57505921	chr16:56996550-58005921	chr16:56054051-56063422	kgp12245826	rs3888264
POLR3F	chr20:18448032-18465286	chr20:17948032-18965286	chr20:18396032-18413286	kgp4834782	kgp4034265
PPARA	chr22:46546498-46639653	chr22:46046498-47139653	chr22:44925162-45018317	kgp1216941	kgp15069036
PPEF1	chrX:18709044-18846034	chrX:18209044-19346034	chrX:18618965-18755955	kgp22764965	kgp22802655
PPEF2	chr4:76781025-76823681	chr4:76281025-77323681	chr4:77000049-77042705	kgp3982074	kgp4693685
PPM1A	chr14:60712469-60765805	chr14:60212469-61265805	chr14:59782222-59835559	kgp19716116	kgp5849461
PPP1R13B	chr14:104200087-104313927	chr14:103700087-104813927	chr14:103269840-103383680	kgp19713395	kgp19494408
PPP1R14A	chr19:38741876-38747231	chr19:38241876-39247231	chr19:43433716-43439012	kgp7541975	kgp4659188
PPP3CA	chr4:101944586-102268628	chr4:101444586-102768628	chr4:102163609-102487376	kgp4575683	kgp7268908
PPYR1	chr10:47083533-47088320	chr10:46583533-47588320	chr10:46503539-46508326	kgp507194	rs11259820
PQBP1	chrX:48755194-48760422	chrX:48255194-49260422	chrX:48640138-48645364	rs28833838	rs2015487
PREI3	chr2:198364721-198418423	chr2:197864721-198918423	chr2:198072966-198126668	kgp9884304	kgp9480848
PRG2	chr11:57154833-57191532	chr11:56654833-57691532	chr19:763517-772952	kgp13043879	kgp12981403

Fig. 3-20

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
PRKACA	chr19:14202506-14228559	chr19:13702506-14728559	chr19:14063506-14089559	kgp6577295	kgp559477
PRKCB1	chr16:23847300-24231932	chr16:23347300-24731932	chr16:23754801-24139433	rs7190829	rs2343354
PRKCD	chr3:53195222-53226733	chr3:52695222-53726733	chr3:53170262-53201773	rs11715796	kgp8788109
PRKCG	chr19:54385466-54410901	chr19:53885466-54910901	chr19:59077278-59102713	kgp1393848	kgp11043930
PRKCI	chr3:169940219-170023770	chr3:169440219-170523770	chr3:171422913-171506464	kgp17942550	rs12485248
PRKCZ	chr1:1981908-2116834	chr1:1481908-2616834	chr1:1971768-2106694	kgp15756715	kgp907107
PRKG1	chr10:52750910-54058110	chr10:52250910-54558110	chr10:52420950-53725280	kgp22035660	rs7923443
PSCD2	chr19:48972465-48985571	chr19:48472465-49485571	chr19:53664277-53677383	rs16981057	rs5464
PSEN2	chr1:227058272-227083804	chr1:226558272-227583804	chr1:225124895-225150427	rs3219110	kgp1301981,rs3014274
PSG9	chr19:43757434-43773682	chr19:43257434-44273682	chr19:48449274-48465522	kgp21418993	kgp7929858
PSMA2	chr7:42956461-42971805	chr7:42456461-43471805	chr7:42922986-42938330	kgp13636285	kgp8523923
PSMD2	chr3:184017021-184026840	chr3:183517021-184526840	chr3:185499715-185509534	kgp4284536	rs11711955
PSPC1	chr13:20277008-20357159	chr13:19777008-20857159	chr13:19146895-19255083	kgp249471	kgp2992302
PTGIR	chr19:47123724-47128354	chr19:46623724-47628354	chr19:51815564-51820194	kgp21532737	rs184290
PTMAP7	chr2:232573235-232578250	chr2:232073235-233078250	chr2:232281479-232286494	kgp6878597	kgp14464906
PTP4A1	chr6:64231650-64293489	chr6:63731650-64793489	chr6:64289609-64351448	rs4710239	kgp357802
PTP4A3	chr8:142432006-142441620	chr8:141932006-142941620	chr8:142501188-142510802	rs12678285	kgp3296894
PTPN11	chr12:112856535-112947717	chr12:112356535-113447717	chr12:111340918-111432100	kgp22816522	rs1293743
PTPN12	chr7:77166772-77269388	chr7:76666772-77769388	chr7:77004770-77107322	kgp4690058	rs3807707
PTPN6	chr12:7055739-7070479	chr12:6555739-7570479	chr12:6926000-6940740	kgp18831609	kgp18845056
PTPRA	chr20:2844824-3019315	chr20:2344824-3519315	chr20:2792824-2967315	kgp725112	rs2853218

Fig. 3-21

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
PTPRJ	chr11:48002109-48192394	chr11:47502109-48692394	chr11:47958685-48148970	kgp11833163	kgp12755942
PTPRS	chr19:5158505-5340814	chr19:4658505-5840814	chr19:5109505-5291814	kgp6271833	kgp4407357
PTPRU	chr1:29563027-29653325	chr1:29063027-30153325	chr1:29435633-29525903	rs12068075	kgp9719744
RAB27A	chr15:55495163-55582013	chr15:54995163-56082013	chr15:53283091-53369293	kgp19829554	rs11631355
RAB3B	chr1:52373627-52456436	chr1:51873627-52956436	chr1:52157422-52228936	kgp22830492	rs10493168
RAB5A	chr3:19988571-20026667	chr3:19488571-20526667	chr3:19963762-20001647	rs1348231	kgp8738867
RAB8B	chr15:63481727-63559973	chr15:62981727-64059973	chr15:61268780-61347026	kgp20037308	rs17773778
RABAC1	chr19:42460832-42463528	chr19:41960832-42963528	chr19:47152675-47155311	kgp22776019	kgp2186225
RAC1	chr7:6414125-6443598	chr7:5914125-6943598	chr7:6380650-6410123	kgp13594313	kgp2338008
RACGAP1	chr12:50382944-50419307	chr12:49882944-50919307	chr12:48669211-48705574	rs12317050	kgp2525417
RAF1	chr3:12625099-12705700	chr3:12125099-13205700	chr3:12600099-12680700	kgp17997932	kgp3531880
RALB	chr2:120997639-121052286	chr2:120497639-121552286	chr2:120726883-120768756	rs17661862	kgp5177758
RASSF1	chr3:50367216-50378367	chr3:49867216-50878367	chr3:50342220-50353371	kgp8151957	kgp7341826
RBM23	chr14:23369853-23388396	chr14:22869853-23888396	chr14:22439693-22458236	rs3811239	kgp128686
RBM5	chr3:50126340-50156397	chr3:49626340-50656397	chr3:49952595-50112488	kgp22823256	rs375544
RCVRN	chr17:9801026-9808684	chr17:9301026-10308684	chr17:9741751-9749409	rs8082538	kgp2141837
REL	chr2:61108751-61150178	chr2:60608751-61650178	chr2:60962255-61003682	kgp8245960	kgp14294452
RELA	chr11:65421066-65430443	chr11:64921066-65930443	chr11:65177647-65186951	kgp6667058	kgp4478491
RELB	chr19:45504706-45541456	chr19:45004706-46041456	chr19:50196551-50233292	kgp9280266	kgp9663255
RFC5	chr12:118454505-118470042	chr12:117954505-118970042	chr12:116938892-116954422	rs11068526	kgp19024344
RGS10	chr10:121259338-121302222	chr10:120759338-121802222	chr10:121249328-121292212	kgp21619652	kgp5105745

Fig. 3-22

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
RGS13	chr1:192605267-192629440	chr1:192105267-193129440	chr1:190871904-190896012	rs11806786	kgp1816960
RGS14	chr5:176784843-176799599	chr5:176284843-177299599	chr5:176717449-176732205	rs1000144	kgp11311419
RGS16	chr1:182567757-182573548	chr1:182067757-183073548	chr1:180834380-180840171	kgp15787070	kgp4798391
RGS18	chr1:192127591-192154945	chr1:191627591-192654945	chr1:190394214-190421568	rs1338034	kgp6525246
RGS19	chr20:62704534-62711324	chr20:62204534-63211324	chr20:62174978-62181768	rs1630157	kgp19264714
RGS4	chr1:163038395-163046592	chr1:162538395-163546592	chr1:161305019-161313216	kgp15623644	kgp15384575
RGS5	chr1:163112088-163291581	chr1:162612088-163791581	chr1:161378720-161439496	kgp15331781	kgp2554099
RGS7	chr1:240938816-241520478	chr1:240438816-242020478	chr1:239005439-239587101	rs16839692	kgp15345284
RHO	chr3:129247481-129254187	chr3:128747481-129754187	chr3:130730171-130736877	kgp12236862	kgp11280524
RHOH	chr4:40198526-40246281	chr4:39698526-40746281	chr4:39874921-39922676	rs3912392	rs17513557
RIC8A	chr11:208529-215110	chr11:1-715110	chr11:198529-205110	kgp9815230	rs11246286
RIC8B	chr12:107168398-107283094	chr12:106668398-107783094	chr12:105692528-105807224	kgp7665070	kgp2084662
RIOK3	chr18:21032786-21063099	chr18:20532786-21563099	chr18:19286784-19317097	kgp4053645	kgp16177785
RIPK1	chr6:3064121-3115421	chr6:2564121-3615421	chr6:3009120-3060420	rs17208835	kgp17120238
RIPK2	chr8:90769974-90803292	chr8:90269974-91303292	chr8:90839109-90872433	rs7813237	rs2214416
RIT1	chr1:155867600-155881177	chr1:155367600-156381177	chr1:154134224-154147801	kgp10974682	rs12022607
RIT2	chr18:40323191-40695657	chr18:39823191-41195657	chr18:38577189-38949655	rs6507465	kgp3440940
RNF10	chr12:120972131-121015397	chr12:120472131-121515397	chr12:119456514-119499780	kgp19140786	kgp19017203
RNF11	chr1:51701944-51739119	chr1:51201944-52239119	chr1:51474532-51511707	kgp4558813	kgp7772065
RPL10	chrX:153627678-153632038	chrX:153127678-154132038	chrX:153279911-153283874	rs2071127	rs4074307
RPL12	chr9:130209952-130213711	chr9:129709952-130713711	chr9:129249775-129253505	kgp11622632	rs3802355

Fig. 3-23

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
RPL37A	chr2:217363519-217366188	chr2:216863519-217866188	chr2:217071764-217074433	kgp2247391	kgp7636371
RRAD	chr16:66955581-66959439	chr16:66455581-67459439	chr16:65513082-65516940	kgp16522328	kgp16305055
RTN4	chr2:55199326-55277734	chr2:54699326-55777734	chr2:55052830-55131238	kgp3749465	rs3748945
S100A8	chr1:153362507-153363664	chr1:152862507-153863664	chr1:151629131-151630173	rs6587709	kgp4686042
SAT1	chrX:23801274-23804327	chrX:23301274-24304327	chrX:23711224-23714248	kgp22758306	kgp22759648
SCN8A	chr12:51985019-52202299	chr12:51485019-52702299	chr12:50271286-50488566	rs7979705	kgp7295633
SDC1	chr2:20400557-20425194	chr2:19900557-20925194	chr2:20264038-20288675	kgp14253812	kgp8380770
SDC2	chr8:97505881-97624037	chr8:97005881-98124037	chr8:97575057-97693213	rs1421221	kgp1305908
SDC4	chr20:43953928-43977064	chr20:43453928-44477064	chr20:43387342-43410478	rs8116486	kgp19276986
SDCBP	chr8:59465727-59495419	chr8:58965727-59995419	chr8:59628281-59657973	rs954172	kgp20217944
SDCBP2	chr20:1290554-1373816	chr20:790554-1873816	chr20:1238620-1257838	kgp9852208	kgp10348674
SDPR	chr2:192699031-192712006	chr2:192199031-193212006	chr2:192407280-192420226	kgp6263901	kgp14266860
SELENBP1	chr1:151336779-151345164	chr1:150836779-151845164	chr1:149603403-149611788	rs12406660	rs6684312
SEMG1	chr20:43835637-43838414	chr20:43335637-44338414	chr20:43269087-43271823	rs6094023	rs6094202
SEMG2	chr20:43835637-43853099	chr20:43335637-44353099	chr20:43269087-43286513	rs6094023	rs6017667
SEPT4	chr17:56597610-56618179	chr17:56097610-57118179	chr17:53952614-53964410	kgp1250021	rs34058624
SETDB1	chr1:150898814-150937220	chr1:150398814-151437220	chr1:149165511-149203837	rs12759551	kgp1978717
SGOL1	chr3:20202084-20227724	chr3:19702084-20727724	chr3:20177088-20202687	kgp9539943	kgp18040639
SGOL2	chr2:201390864-201448818	chr2:200890864-201948818	chr2:201099186-201156750	kgp9074393	kgp14634946
SH2B3	chr12:111843751-111889427	chr12:111343751-112389427	chr12:110328134-110373810	kgp7682395	kgp10017505
SHC1	chr1:154934773-154946959	chr1:154434773-155446959	chr1:153201397-153213464	kgp11196367	kgp15752431

Fig. 3-24

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
SIRT2	chr19:39369194-39390502	chr19:38869194-39890502	chr19:44061039-44082201	kgp21526327	kgp9511717
SLC1A1	chr9:4490426-4587469	chr9:3990426-5087469	chr9:4480443-4577469	kgp7074545	kgp9946842
SLC6A9	chr1:44457171-44497134	chr1:43957171-44997134	chr1:44234741-44269721	rs6687571	rs6672462
SLC9A3R1	chr17:72744762-72765499	chr17:72244762-73265499	chr17:70256378-70277089	kgp14032523	kgp14006779
SMAD3	chr15:67358194-67487533	chr15:66858194-67987533	chr15:65145248-65274587	kgp1676807	kgp19813377
SMAD5	chr5:135468535-135518422	chr5:134968535-136018422	chr5:135496434-135546321	kgp5717445	kgp8569495
SMN2	chr5:70220767-70248842	chr5:69720767-70748842	chr5:70256523-70284594	rs28591114	kgp22633148
SMPD3	chr16:68392229-68482409	chr16:67892229-68982409	chr16:66949730-67039905	kgp2756941	kgp16310484
SNAP23	chr15:42787503-42825259	chr15:42287503-43325259	chr15:40575126-40612548	rs1668586	kgp19741111
SNAP25	chr20:10199476-10288066	chr20:9699476-10788066	chr20:10147476-10236065	kgp4923784	kgp19370207
SNAP91	chr6:84262604-84419127	chr6:83762604-84919127	chr6:84319331-84475831	kgp17413387	kgp16958869
SNTA1	chr20:31995762-32031698	chr20:31495762-32531698	chr20:31459423-31495359	kgp994844	kgp22753335
SNURF	chr15:25200069-25244225	chr15:24700069-25744225	chr15:22751162-22795318	kgp20028287	kgp5644000
SOX4	chr6:21593971-21598849	chr6:21093971-22098849	chr6:21701950-21706828	kgp3609791	rs9466264
SPAG1	chr8:101170262-101254132	chr8:100670262-101754132	chr8:101239438-101323306	kgp5198147	kgp20550876
SPG7	chr16:89574804-89624174	chr16:89074804-90124174	chr16:88102305-88151675	kgp3688149	rs3809643
SPP1	chr4:88896801-88904563	chr4:88396801-89404563	chr4:89115825-89123587	kgp20744622	kgp20764098
SPTBN1	chr2:54683453-54898583	chr2:54183453-55398583	chr2:54536957-54752087	kgp14832324	kgp12300457
SQSTM1	chr5:179233387-179265077	chr5:178733387-179765077	chr5:179170503-179197683	kgp10101186	kgp2553327
SRGAP3	chr3:9022277-9291311	chr3:8522277-9791311	chr3:8997277-9266311	kgp5324812	kgp18088153
STARD13	chr13:33677271-34250932	chr13:33177271-34750932	chr13:32575306-33148932	kgp1217969	kgp9105015

Fig. 3-25

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
STC2	chr5:172741725-172756506	chr5:172241725-173256506	chr5:172674331-172689112	kgp22378380	kgp10706002
STRN	chr2:37064840-37193615	chr2:36564840-37693615	chr2:36928975-37047119	kgp3533593	kgp9369923
STRN4	chr19:47222767-47250251	chr19:46722767-47750251	chr19:51914607-51941560	kgp21470253	rs4804031
STX4	chr16:31044415-31051485	chr16:30544415-31551485	chr16:30951916-30958986	kgp16259387	kgp7678241
STX5	chr11:62574331-62599563	chr11:62074331-63099563	chr11:62330944-62356136	kgp10937693	kgp568990
STXBP1	chr9:130374485-130454995	chr9:129874485-130954995	chr9:129414388-129494816	rs1768374	kgp4399986
STXBP3	chr1:109289284-109352148	chr1:108789284-109852148	chr1:109090807-109153671	rs6583070	rs17036360
SULT1E1	chr4:70706929-70725870	chr4:70206929-71225870	chr4:70741518-70760459	kgp22798798	kgp5241292
SUMO4	chr6:149721494-149722182	chr6:149221494-150222182	chr6:149763187-149763875	rs1871921	kgp17155476
SYT1	chr12:79257772-79845788	chr12:78757772-80345788	chr12:77781903-78367834	kgp11848377	kgp18913198
SYT9	chr11:7273180-7490276	chr11:6773180-7990276	chr11:7229756-7446846	rs7928685	kgp8567849
TANC1	chr2:159825145-160089170	chr2:159325145-160589170	chr2:159533391-159797416	rs4664962	kgp22743229
TANK	chr2:161993465-162092683	chr2:161493465-162592683	chr2:161701711-161800928	kgp7233899	rs1006427
TAOK2	chr16:29985187-30003582	chr16:29485187-30503582	chr16:29892722-29911082	rs257868	kgp2310172
TBCD	chr17:80709939-80901062	chr17:80209939-81401062	chr17:78303228-78494351	rs11653735	kgp10867492
TBCE	chr1:235530727-235612280	chr1:235030727-236112280	chr1:233597350-233678903	rs2673969	kgp15284682
TBK1	chr12:64845839-64895899	chr12:64345839-65395899	chr12:63132203-63182158	kgp18934034	kgp19122002
TCF1	chr5:134240810-134298336	chr5:133740810-134798336	chr5:134268709-134326235	kgp22161149	kgp4823163
TCF3	chr19:1609288-1652328	chr19:1109288-2152328	chr19:1560294-1603328	rs2302109	kgp2427498
TCF4	chr18:52889561-53303188	chr18:52389561-53803188	chr18:51040559-51454183	kgp10409423	rs1792746
TDGF1	chr3:46616044-46623952	chr3:46116044-47123952	chr3:46594216-46598956	kgp980076	kgp18003873

Fig. 3-26

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
TEP1	chr14:20833825-20881579	chr14:20333825-21381579	chr14:19905765-19951420	rs1780944	rs12435821
TERT	chr5:1253286-1295162	chr5:753286-1795162	chr5:1306286-1348162	kgp22831882	rs4975846
TGFA	chr2:70674411-70781147	chr2:70174411-71281147	chr2:70527924-70634613	kgp14279885	kgp4236793
TIAM1	chr21:32490735-32931290	chr21:31990735-33431290	chr21:31412606-31853161	rs1702403	rs1892577
TM4SF1	chr3:149086804-149095568	chr3:148586804-149595568	chr3:150569494-150578258	kgp18120845	kgp17746361
TMSB4X	chrX:12993225-12995346	chrX:12493225-13495346	chrX:12903145-12905267	kgp22760889	kgp22772999
TNFRSF14	chr1:2487804-2495267	chr1:1987804-2995267	chr1:2479150-2486613	rs2803309	kgp11439882
TNFRSF1A	chr12:6437922-6451283	chr12:5937922-6951283	chr12:6308183-6321522	kgp6731378,rs4764519	kgp19158534
TNFRSF1B	chr1:12227059-12269277	chr1:11727059-12769277	chr1:12149646-12191864	kgp15495881	rs3010872
TNIP2	chr4:2743386-2758103	chr4:2243386-3258103	chr4:2713184-2727859	kgp20948263	kgp5432833
TNNI2	chr11:1860232-1862910	chr11:1360232-2362910	chr11:1817480-1819484	kgp11231095	rs800123
TNNI3	chr19:55663135-55669100	chr19:55163135-56169100	chr19:60354947-60360912	rs13382124	kgp21397937
TNNT2	chr1:201328141-201346805	chr1:200828141-201846805	chr1:199594764-199613428	rs12733378	rs10920269
TOMM20	chr1:235272657-235292256	chr1:234772657-235792256	chr1:233339282-233358754	kgp8358331	kgp15139309
TOP2A	chr17:38544772-38574202	chr17:38044772-39074202	chr17:35798321-35827695	kgp7375263	kgp10420460
TP53	chr17:7571719-7590863	chr17:7071719-8090863	chr17:7512444-7531588	kgp12029669	kgp11286494
TRADD	chr16:67188088-67193812	chr16:66688088-67693812	chr16:65745589-65751313	kgp16482196	kgp16510307,rs28521023
TRAF1	chr9:123664670-123691451	chr9:123164670-124191451	chr9:122704492-122731300	kgp6551598	rs306777
TRAF6	chr11:36505316-36531863	chr11:36005316-37031863	chr11:36467298-36488398	kgp12764289	rs333778
TRBV21-1	chr7:142344427-142344887	chr7:141844427-142844887	chr7:142025416-142025876	kgp2155197	kgp9570297
TRIM2	chr4:154074269-154260474	chr4:153574269-154760474	chr4:154293719-154479918	rs6849505	rs6843172

Fig. 3-27

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
TRIM29	chr11:119981993-120008863	chr11:119481993-120508863	chr11:119487203-119514073	kgp12998914	rs7122702
TRIO	chr5:14143828-14509458	chr5:13643828-15009458	chr5:14196828-14562458	rs1445678	kgp8041369
TRPC1	chr3:142443265-142526729	chr3:141943265-143026729	chr3:143925955-144009419	rs9842771	rs7641069
TRPC3	chr4:122800182-122872909	chr4:122300182-123372909	chr4:123019881-123092359	kgp21231448	kgp5789583
TRPC4	chr13:38210772-38443939	chr13:37710772-38943939	chr13:37108794-37341935	kgp22792521	rs7338958
TRPV1	chr17:3468739-3512705	chr17:2968739-4012705	chr17:3415489-3459454	kgp8654960	rs9890881
TRPV4	chr12:110220891-110271212	chr12:109720891-110771212	chr12:108705276-108755595	kgp11365980	kgp19139284
TRPV6	chr7:142568959-142583490	chr7:142068959-143083490	chr7:142279081-142293599	kgp9647465	kgp2837315
TSC22D4	chr7:100064141-100076902	chr7:99564141-100576902	chr7:99902077-99914838	kgp5759639	kgp10599319
TSHR	chr14:81421868-81612646	chr14:80921868-82112646	chr14:80491621-80682399	kgp19546597	rs10134565
TSPAN6	chrX:99883794-99891794	chrX:99383794-100391794	chrX:99770450-99778450	kgp22794008	rs7059563
TTBK1	chr6:43211221-43255997	chr6:42711221-43755997	chr6:43319199-43363975	kgp17369454	kgp17498760
TTC1	chr5:159436179-159492550	chr5:158936179-159992550	chr5:159368757-159425128	kgp5018309	kgp22489460
TTK	chr6:80714321-80752244	chr6:80214321-81252244	chr6:80771077-80808958	kgp949561	kgp12311980
TTN	chr2:179390717-179672150	chr2:178890717-180172150	chr2:179098963-179380395	rs959775	rs6433773
TUB	chr11:8040790-8127654	chr11:7540790-8627654	chr11:8016755-8084228	kgp12365126	kgp1066384
TUBA8	chr22:18593452-18614498	chr22:18093452-19114498	chr22:16940685-16994498	rs1034470	kgp9877961
UBE2V2	chr8:48920994-48974454	chr8:48420994-49474454	chr8:49083547-49137007	kgp3293751	kgp20374954
ULK1	chr12:132379278-132407707	chr12:131879278-132907707	chr12:130945231-130973649	kgp7696078	kgp11815104
USP7	chr16:8985950-9057341	chr16:8485950-9557341	chr16:8893451-8964842	kgp79060	rs1035944
VAV1	chr19:6772721-6857371	chr19:6272721-7357371	chr19:6723721-6808371	kgp21410647	kgp21471951

Fig. 3-28

Tier 3 Gene	GeneRange(hg19)	GeneRange+500kb(hg19)	GeneRange(hg18)	StartSNP (GeneRange+500kb)	EndSNP (GeneRange+500 kb)
VCL	chr10:75754950-75879914	chr10:75254950-76379914	chr10:75424956-75549920	rs7099640	kgp21840278
VDAC1	chr5:133307565-133340824	chr5:132807565-133840824	chr5:133335505-133368723	kgp22321002	kgp9499928
VIL2	chr6:159186773-159239340	chr6:158686773-159739340	chr6:159106761-159159328	rs9366083	kgp10633571
VIM	chr10:17270257-17279592	chr10:16770257-17779592	chr10:17310475-17319598	kgp1974218	kgp8572563
VTN	chr17:26694298-26697373	chr17:26194298-27197373	chr17:23718425-23721500	rs12602762	kgp2208161
WDR62	chr19:36545782-36596012	chr19:36045782-37096012	chr19:41237622-41287852	kgp5818871	kgp7464156
WDR91	chr7:134868589-134896316	chr7:134368589-135396316	chr7:134520524-134546811	kgp7394785	kgp4752834
WWC1	chr5:167719064-167899308	chr5:167219064-168399308	chr5:167651669-167829342	rs10454965	rs7724207
XK	chrX:37545132-37591383	chrX:37045132-38091383	chrX:37430051-37476322	kgp22781551	kgp22821350
YWHAB	chr20:43514343-43537161	chr20:43014343-44037161	chr20:42947757-42970575	rs4364072	rs2247619
YWHAE	chr17:1247833-1303556	chr17:747833-1803556	chr17:1194592-1250267	rs4968122	kgp1552188
YWHAG	chr7:75956107-75988342	chr7:75456107-76488342	chr7:75794051-75826252	kgp13357645	kgp7952605
YWHAZ	chr8:101930803-101965623	chr8:101430803-102465623	chr8:102000089-102034745	rs4075553	kgp4135753
ZNF24	chr18:32912177-32924426	chr18:32412177-33424426	chr18:31166175-31178424	kgp5227729	kgp15931312

Fig. 3-29

Gene set	Number of CNV calls in gene set for patients with TS
Tier 1	32
Tiers 1 + 2	52
Tiers 1 + 2 + 3	122

Fig. 4

Gene set	% of patients with TS who had a CNV call within gene set
Tier 1	21
Tiers 1 + 2	29
Tiers 1 + 2 + 3	52

Fig. 5