

Regions Sequenced in Myeloma NGS Panel

Name_Exon_Gene Bank Accession#	Chromosome	Chromosome Start	Chromosome End
AKT2_Exon13_Amp1	chr19	40736221	40736364
AKT2_Exon13_Amp2	chr19	40737221	40737364
AKT2_Exon13_NM001243028	chr19	40739777	40739860
AKT2_Exon13_NM001626	chr19	40740950	40741056
AKT2_Exon12_NM001626	chr19	40741168	40741259
AKT2_Exon11_NM001626	chr19	40741795	40742013
AKT2_Exon10_NM001626	chr19	40742162	40742294
AKT2_Intron8_Amp1	chr19	40742423	40742562
AKT2_Exon9_NM001626	chr19	40743874	40744000
AKT2_Exon8_NM001626	chr19	40744810	40744882
AKT2_Exon7_NM001626	chr19	40745950	40746019
AKT2_Intron5_Amp1	chr19	40746149	40746287
AKT2_Intron5_Amp2	chr19	40746418	40746557
AKT2_Exon6_NM001626	chr19	40747843	40747978
AKT2_Exon5_NM001626	chr19	40748439	40748596
AKT2_Intron3_Amp1	chr19	40752726	40752864
AKT2_Intron3_Amp2	chr19	40756995	40757134
AKT2_Intron3_Amp3	chr19	40757995	40758134
AKT2_Exon4_NM001626	chr19	40761063	40761178
AKT2_Exon3_NM001626	chr19	40762831	40762963
AKT2_Intron2_Amp1	chr19	40766093	40766231
AKT2_Intron2_Amp2	chr19	40770362	40770501
AKT2_Exon2_NM001626	chr19	40771127	40771176
AKT2_Intron1_Amp1	chr19	40771305	40771444
AKT2_Intron1_Amp2	chr19	40772305	40772444
AKT2_Intron1_Amp3	chr19	40774305	40774444
AKT2_Intron1_Amp4	chr19	40776306	40776444
AKT2_Intron1_Amp5	chr19	40783575	40783714
AKT2_Intron1_Amp6	chr19	40784806	40784944
AKT2_Intron1_Amp7	chr19	40786075	40786214
AKT2_Intron1_Amp8	chr19	40786306	40786444
AKT2_Intron1_Amp9	chr19	40787575	40787714
AKT2_Intron1_Amp10	chr19	40787806	40787944
AKT2_Intron1_Amp11	chr19	40788075	40788214
AKT2_Intron1_Amp12	chr19	40789075	40789214
AKT3_Exon13_NM005465	chr1	243663043	243668638
AKT3_Exon12_NM005465	chr1	243675624	243675730
AKT3_Exon11_NM005465	chr1	243708810	243708901
AKT3_Exon10_NM005465	chr1	243716029	243716247
AKT3_Exon9_NM005465	chr1	243727020	243727152
AKT3_Exon8_NM005465	chr1	243736226	243736352
AKT3_Exon7_NM005465	chr1	243776971	243777043
AKT3_Exon6_NM005465	chr1	243778396	243778465
AKT3_Exon5_NM005465	chr1	243800911	243801046
AKT3_Exon4_NM005465	chr1	243809193	243809341

AKT3_Exon3_NM005465	chr1	243828072	243828187
AKT3_Exon2_NM005465	chr1	243858891	243859020
AKT3_Exon1_NM005465	chr1	244006425	244006474
ATM_Exon2_NM000051	chr11	108098350	108098425
ATM_Exon3_NM000051	chr11	108098501	108098617
ATM_Exon4_NM000051	chr11	108099903	108100052
ATM_Exon5_NM000051	chr11	108106395	108106563
ATM_Exon6_NM000051	chr11	108114678	108114847
ATM_Exon7_NM000051	chr11	108115513	108115755
ATM_Exon8_NM000051	chr11	108117689	108117856
ATM_Exon9_NM000051	chr11	108119658	108119831
ATM_Exon10_NM000051	chr11	108121426	108121801
ATM_Exon11_NM000051	chr11	108122562	108122760
ATM_Exon12_NM000051	chr11	108123542	108123641
ATM_Exon13_NM000051	chr11	108124539	108124768
ATM_Exon14_NM000051	chr11	108126940	108127069
ATM_Exon15_NM000051	chr11	108128206	108128335
ATM_Exon16_NM000051	chr11	108129711	108129804
ATM_Exon17_NM000051	chr11	108137896	108138071
ATM_Exon18_NM000051	chr11	108139135	108139338
ATM_Exon19_NM000051	chr11	108141789	108141875
ATM_Exon20_NM000051	chr11	108141976	108142135
ATM_Exon21_NM000051	chr11	108143257	108143336
ATM_Exon22_NM000051	chr11	108143447	108143581
ATM_Exon23_NM000051	chr11	108150216	108150337
ATM_Exon24_NM000051	chr11	108151720	108151897
ATM_Exon25_NM000051	chr11	108153435	108153608
ATM_Exon26_NM000051	chr11	108154952	108155202
ATM_Exon27_NM000051	chr11	108158325	108158444
ATM_Exon28_NM000051	chr11	108159702	108159832
ATM_Exon29_NM000051	chr11	108160327	108160530
ATM_Exon30_NM000051	chr11	108163344	108163522
ATM_Exon31_NM000051	chr11	108164038	108164206
ATM_Exon32_NM000051	chr11	108165652	108165788
ATM_Exon33_NM000051	chr11	108168012	108168111
ATM_Exon34_NM000051	chr11	108170439	108170614
ATM_Exon35_NM000051	chr11	108172373	108172518
ATM_Exon36_NM000051	chr11	108173578	108173758
ATM_Exon37_NM000051	chr11	108175400	108175581
ATM_Exon38_NM000051	chr11	108178622	108178713
ATM_Exon39_NM000051	chr11	108180885	108181044
ATM_Exon40_NM000051	chr11	108183136	108183227
ATM_Exon41_NM000051	chr11	108186548	108186640
ATM_Exon42_NM000051	chr11	108186736	108186842
ATM_Exon43_NM000051	chr11	108188098	108188250
ATM_Exon44_NM000051	chr11	108190679	108190787
ATM_Exon45_NM000051	chr11	108192026	108192149

ATM_Exon46_NM000051	chr11	108196035	108196273
ATM_Exon47_NM000051	chr11	108196783	108196954
ATM_Exon48_NM000051	chr11	108198370	108198487
ATM_Exon49_NM000051	chr11	108199746	108199967
ATM_Exon50_NM000051	chr11	108200939	108201150
ATM_Exon51_NM000051	chr11	108202169	108202286
ATM_Exon52_NM000051	chr11	108202604	108202766
ATM_Exon53_NM000051	chr11	108203487	108203629
ATM_Exon54_NM000051	chr11	108204611	108204697
ATM_Exon55_NM000051	chr11	108205694	108205838
ATM_Exon56_NM000051	chr11	108206570	108206690
ATM_Exon57_NM000051	chr11	108213947	108214100
ATM_Exon58_NM000051	chr11	108216468	108216637
ATM_Exon59_NM000051	chr11	108218004	108218094
ATM_Exon60_NM000051	chr11	108224491	108224609
ATM_Exon61_NM000051	chr11	108225536	108225603
ATM_Exon62_NM000051	chr11	108235807	108235947
ATM_Exon63_NM000051	chr11	108236050	108236237
MSI_BIRC3_5UTR	chr11	102193349	102193694
BIRC3_Exon2_NM001165	chr11	102195239	102196095
BIRC3_Exon3_NM001165	chr11	102196195	102196298
BIRC3_Exon4_NM001165	chr11	102198781	102198863
BIRC3_Exon5_NM001165	chr11	102199626	102199678
BIRC3_Exon6_NM001165	chr11	102201728	102201974
BIRC3_Exon7_NM001165	chr11	102206695	102206953
BIRC3_Exon8_NM001165	chr11	102207489	102207534
BIRC3_Exon10_NM182962	chr11	102207638	102207835
BRAF_Exon18_NM004333	chr7	140434395	140434572
BRAF_Intron17_Amp1	chr7	140438701	140438840
BRAF_Exon17_NM004333	chr7	140439610	140439748
BRAF_Intron16_Amp1	chr7	140446877	140447016
BRAF_Exon16_NM004333	chr7	140449085	140449220
BRAF_Intron15_Amp1	chr7	140452349	140452488
BRAF_Exon15_NM004333	chr7	140453073	140453195
BRAF_Exon14_NM004333	chr7	140453985	140454035
BRAF_Exon13_NM004333	chr7	140476710	140476890
BRAF_Exon12_NM004333	chr7	140477789	140477877
BRAF_Exon11_NM004333	chr7	140481374	140481495
BRAF_Exon10_NM004333	chr7	140482819	140482959
BRAF_Exon9_NM004333	chr7	140487346	140487386
BRAF_Intron8_Fusion1	chr7	140487385	140494107
BRAF_Exon8_NM004333	chr7	140494106	140494269
BRAF_Intron7_Amp1	chr7	140494398	140494537
BRAF_Intron7_Amp2	chr7	140497398	140497537
BRAF_Exon7_NM004333	chr7	140500160	140500283
BRAF_Exon6_NM004333	chr7	140501210	140501362
BRAF_Intron5_Amp1	chr7	140505491	140505630

BRAF_Exon5_NM004333	chr7	140507758	140507864
BRAF_Exon4_NM004333	chr7	140508690	140508797
BRAF_Intron3_Amp1	chr7	140526926	140527065
BRAF_Intron3_Amp2	chr7	140530926	140531065
BRAF_Intron3_Amp3	chr7	140532926	140533065
BRAF_Exon3_NM004333	chr7	140534407	140534674
BRAF_Intron2_Amp1	chr7	140546803	140546942
BRAF_Intron2_Amp2	chr7	140548803	140548942
BRAF_Exon2_NM004333	chr7	140549909	140550014
BRAF_Intron1_Amp1	chr7	140561143	140561282
BRAF_Intron1_Amp2	chr7	140565143	140565282
BRAF_Intron1_Amp3	chr7	140576644	140576782
BRAF_Intron1_Amp4	chr7	140577913	140578052
BRAF_Intron1_Amp5	chr7	140578913	140579052
BRAF_Intron1_Amp6	chr7	140580913	140581052
BRAF_Intron1_Amp7	chr7	140590913	140591052
BRAF_Intron1_Amp8	chr7	140596913	140597052
BRAF_Intron1_Amp9	chr7	140599913	140600052
BRAF_Intron1_Amp10	chr7	140610913	140611052
BRAF_Intron1_Amp11	chr7	140617913	140618052
BRAF_Intron1_Amp12	chr7	140618913	140619052
BRAF_Intron1_Amp13	chr7	140620144	140620282
BRAF_Intron1_Amp14	chr7	140620413	140620552
BRAF_Exon1_NM004333	chr7	140624364	140624505
CCND1_Exon1_NM053056	chr11	69456080	69456281
CCND1_Intron1_Amp1	chr11	69456411	69456549
CCND1_Intron1_Amp2	chr11	69456911	69457049
CCND1_Exon2_NM053056	chr11	69457797	69458016
CCND1_Intron2_Amp1	chr11	69458445	69458584
CCND1_Exon3_NM053056	chr11	69458598	69458761
CCND1_Intron3_Amp1	chr11	69458890	69459029
CCND1_Intron3_Amp2	chr11	69459190	69459329
CCND1_Intron3_Amp3	chr11	69459391	69459529
CCND1_Intron3_Amp4	chr11	69460891	69461029
CCND1_Intron3_Amp5	chr11	69461391	69461529
CCND1_Intron3_Amp6	chr11	69461891	69462029
CCND1_Intron3_Amp7	chr11	69462391	69462529
CCND1_Exon4_NM053056	chr11	69462760	69462912
CCND1_Intron4_Amp1	chr11	69463041	69463180
CCND1_Intron4_Amp2	chr11	69463341	69463480
CCND1_Intron4_Amp3	chr11	69463641	69463780
CCND1_Intron4_Amp4	chr11	69464542	69464680
CCND1_Intron4_Amp5	chr11	69465042	69465180
CCND1_Intron4_Amp6	chr11	69465311	69465450
CCND1_Exon5_NM053056	chr11	69465884	69466052
CCND1_Exon5_Amp1	chr11	69466177	69466319
CCND1_Exon5_Amp2	chr11	69466677	69466819

CCND1_Exon5_Amp3	chr11	69467246	69467389
CCND1_Exon5_Amp4	chr11	69467546	69467819
CCND1_Exon5_Amp5	chr11	69468205	69468319
CCND1_Exon5_Amp6	chr11	69468677	69468819
CCND1_Exon5_Amp7	chr11	69469177	69469319
CCND1_Flanking1_Amp1	chr11	69470948	69471087
CDK4_Flanking1_Amp1	chr12	58136509	58136648
CDK4_Flanking2_Amp1	chr12	58136809	58136948
CDK4_Flanking3_Amp1	chr12	58137409	58137548
CDK4_Flanking4_Amp1	chr12	58137709	58137848
CDK4_Flanking5_Amp1	chr12	58139209	58139348
CDK4_Flanking6_Amp1	chr12	58139509	58139648
CDK4_Flanking7_Amp1	chr12	58139809	58139948
CDK4_Flanking8_Amp1	chr12	58140109	58140248
CDK4_Flanking9_Amp1	chr12	58140709	58140848
CDK4_Flanking10_Amp1	chr12	58141009	58141148
CDK4_Exon8_Amp1	chr12	58141907	58142050
CDK4_Exon8_NM000075	chr12	58142306	58142402
CDK4_Intron7_Amp1	chr12	58142760	58142870
CDK4_Exon7_NM000075	chr12	58142963	58143102
CDK4_Exon6_NM000075	chr12	58143235	58143289
CDK4_Intron5_Amp1	chr12	58143718	58143857
CDK4_Intron5_Amp2	chr12	58144019	58144157
CDK4_Intron5_Amp3	chr12	58144219	58144357
CDK4_Exon5_NM000075	chr12	58144437	58144550
CDK4_Exon4_NM000075	chr12	58144704	58144875
CDK4_Exon3_NM000075	chr12	58144988	58145127
CDK4_Exon2_NM000075	chr12	58145281	58145502
CDK4_Intron1_Amp1	chr12	58145651	58145789
CDK4_Flanking11_Amp1	chr12	58146820	58146959
CDK4_Flanking12_Amp1	chr12	58147120	58147259
CDK4_Flanking13_Amp1	chr12	58147420	58147559
CDK4_Flanking14_Amp1	chr12	58148020	58148159
CDK4_Flanking15_Amp1	chr12	58148320	58148459
CDK4_Flanking16_Amp1	chr12	58148620	58148759
CDK4_Flanking17_Amp1	chr12	58149220	58149359
CDK4_Flanking18_Amp1	chr12	58150420	58150559
CDK4_Flanking19_Amp1	chr12	58150720	58150859
CDKN1B_Flanking1_Pseudo1	chr12	12865001	12865120
CDKN1B_Exon1_NM004064	chr12	12870772	12871250
CDKN1B_Exon2_NM004064	chr12	12871757	12871882
CDKN1B_Intron2_Pseudo1	chr12	12873001	12873120
CDKN1B_Exon3_Pseudo1	chr12	12874199	12874322
CDKN2A_Exon3_NM000077	chr9	21968226	21968243
CDKN2A_Exon3_NM001195132	chr9	21968572	21968772
CDKN2A_Exon2_NM001195132	chr9	21970899	21971209
CDKN2A_Exon1_Additional1	chr9	21974401	21975134

CDKN2A_Exon1_NM058195	chr9	21994136	21994332
CXCR4_Flanking1_Pseudo1	chr2	136870001	136870120
CXCR4_Exon2_NM003467	chr2	136872437	136873511
CXCR4_Intron1_Pseudo1	chr2	136874501	136874620
CXCR4_Exon1_NM003467	chr2	136875614	136875632
CXCR4_Flanking2_Pseudo1	chr2	136877001	136877120
EGFR_Exon1_NM005228	chr7	55086969	55087060
EGFR_Intron1_Amp1	chr7	55102724	55102863
EGFR_Intron1_Amp2	chr7	55136724	55136863
EGFR_Intron1_Amp3	chr7	55172724	55172863
EGFR_Intron1_Amp4	chr7	55184724	55184863
EGFR_Intron1_Amp5	chr7	55195724	55195863
EGFR_Exon2_NM005228	chr7	55209977	55210132
EGFR_Exon3_NM005228	chr7	55210996	55211183
EGFR_Exon4_NM005228	chr7	55214297	55214435
EGFR_Exon5_NM005228	chr7	55218985	55219057
EGFR_Exon6_NM005228	chr7	55220237	55220359
EGFR_Intron6_Fusion1	chr7	55220358	55221703
EGFR_Exon7_NM005228	chr7	55221702	55221847
EGFR_Exon8_NM005228	chr7	55223521	55223641
EGFR_Intron8_Fusion1	chr7	55223640	55224225
EGFR_Exon9_NM005228	chr7	55224224	55224354
EGFR_Exon10_NM201283	chr7	55224450	55224646
EGFR_Exon11_NM005228	chr7	55225354	55225448
EGFR_Exon12_NM005228	chr7	55227830	55228033
EGFR_Exon13_NM005228	chr7	55229190	55229326
EGFR_Intron13_Amp1	chr7	55229455	55229594
EGFR_Exon14_NM005228	chr7	55231424	55231518
EGFR_Exon15_NM005228	chr7	55232971	55233132
EGFR_Exon16_Fusion1	chr7	55233129	55236218
EGFR_Exon16_NM201282	chr7	55236214	55236330
EGFR_Exon16_Fusion2	chr7	55236327	55238002
EGFR_Exon16_NM201284	chr7	55237998	55238740
EGFR_Intron15_Fusion1	chr7	55238739	55238867
EGFR_Exon16_NM005228	chr7	55238866	55238908
EGFR_Exon17_NM005228	chr7	55240674	55240819
EGFR_Exon18_NM005228	chr7	55241612	55241738
EGFR_Exon19_NM005228	chr7	55242413	55242515
EGFR_Intron19_Fusion1	chr7	55242514	55248985
EGFR_Exon20_NM005228	chr7	55248984	55249173
EGFR_Intron20_Amp1	chr7	55251302	55251441
EGFR_Exon21_NM005228	chr7	55259410	55259569
EGFR_Exon22_NM005228	chr7	55260457	55260536
EGFR_Intron22_Amp1	chr7	55265665	55265804
EGFR_Exon23_NM005228	chr7	55266408	55266558
EGFR_Exon24_NM005228	chr7	55268007	55268108
EGFR_Intron24_Fusion1	chr7	55268107	55268880

EGFR_Exon25_NM005228	chr7	55268879	55269050
EGFR_Intron25_Fusion1	chr7	55269049	55269427
EGFR_Exon26_NM005228	chr7	55269426	55269477
EGFR_Exon27_NM005228	chr7	55270208	55270320
EGFR_Intron27_Amp1	chr7	55272449	55272588
EGFR_Exon28_NM005228	chr7	55272947	55273312
FGFR3_Flanking1_Amp1	chr4	1793038	1793177
FGFR3_Flanking2_Amp1	chr4	1793938	1794077
FGFR3_Flanking3_Amp1	chr4	1794538	1794677
FGFR3_Exon2_NM000142	chr4	1795660	1795772
FGFR3_Intron2_Amp1	chr4	1797101	1797240
FGFR3_Intron2_Amp2	chr4	1797701	1797840
FGFR3_Intron2_Amp3	chr4	1798301	1798440
FGFR3_Intron2_Amp4	chr4	1799201	1799340
FGFR3_Intron2_Amp5	chr4	1799501	1799640
FGFR3_Intron2_Amp6	chr4	1799801	1799940
FGFR3_Exon3_NM001163213	chr4	1800979	1801252
FGFR3_Exon4_NM001163213	chr4	1801472	1801541
FGFR3_Intron4_Amp1	chr4	1801970	1802109
FGFR3_Exon5_NM001163213	chr4	1803092	1803265
FGFR3_Exon6_NM001163213	chr4	1803345	1803472
FGFR3_Exon7_NM001163213	chr4	1803560	1803754
FGFR3_Intron7_Amp1	chr4	1804384	1804522
FGFR3_Exon8_NM001163213	chr4	1804639	1804793
FGFR3_Intron7_Amp2	chr4	1804922	1805061
FGFR3_Intron7_Amp3	chr4	1805222	1805361
FGFR3_Exon8_NM000142	chr4	1805417	1805565
FGFR3_Exon9_NM001163213	chr4	1806055	1806249
FGFR3_Exon10_NM001163213	chr4	1806549	1806698
FGFR3_Exon11_NM001163213	chr4	1807080	1807205
FGFR3_Exon12_NM001163213	chr4	1807284	1807398
FGFR3_Exon13_NM001163213	chr4	1807475	1807669
FGFR3_Exon14_NM001163213	chr4	1807776	1807902
FGFR3_Exon15_NM001163213	chr4	1807982	1808056
FGFR3_Exon16_NM001163213	chr4	1808271	1808412
FGFR3_Exon17_NM001163213	chr4	1808554	1808663
FGFR3_Intron15_Fusion1	chr4	1808662	1808842
FGFR3_Exon16_NM022965	chr4	1808841	1808991
FGFR3_Flanking4_Amp1	chr4	1812420	1812559
IDH1_Exon10_NM001282386	chr2	209101801	209101895
IDH1_Exon9_NM001282387	chr2	209103793	209103959
IDH1_Exon8_NM001282387	chr2	209104585	209104729
IDH1_Exon7_NM001282387	chr2	209106716	209106871
IDH1_Exon6_NM001282387	chr2	209108149	209108330
IDH1_Exon5_NM001282387	chr2	209110041	209110150
IDH1_Exon4_NM001282387	chr2	209113091	209113386
IDH1_Exon3_NM001282386	chr2	209116152	209116277

IDH2_ Exon11_ NM001289910	chr15	90627496	90627587
IDH2_ Exon10_ NM002168	chr15	90628046	90628142
IDH2_ Exon9_ NM002168	chr15	90628231	90628332
IDH2_ Exon8_ NM002168	chr15	90628505	90628621
IDH2_ Exon7_ NM002168	chr15	90630342	90630497
IDH2_ Exon6_ NM002168	chr15	90630669	90630809
IDH2_ Exon5_ NM002168	chr15	90631589	90631736
IDH2_ Exon4_ NM002168	chr15	90631817	90631981
IDH2_ Exon3_ NM002168	chr15	90633709	90633878
IDH2_ Exon2_ NM002168	chr15	90634783	90634878
IDH2_ Exon1_ NM001289910	chr15	90643806	90643855
IDH2_ Exon1_ NM002168	chr15	90645506	90645624
IRF4_ Exon2_ NM001195286	chr6	393151	393370
IRF4_ Exon3_ NM002460	chr6	394819	395009
IRF4_ Exon4_ NM002460	chr6	395845	395937
IRF4_ Exon5_ NM002460	chr6	397106	397254
IRF4_ Exon6_ NM002460	chr6	398826	398937
IRF4_ Exon7_ NM001195286	chr6	401422	401817
IRF4_ Exon8_ NM002460	chr6	405016	405132
IRF4_ Exon9_ NM001195286	chr6	407453	407600
IKZF1_ Exon1_ NM001220767	chr7	50358656	50358699
IKZF1_ Exon3_ NM006060	chr7	50367232	50367355
IKZF1_ Exon4_ NM006060	chr7	50444229	50444493
IKZF1_ Exon5_ NM006060	chr7	50450236	50450407
IKZF1_ Exon6_ NM006060	chr7	50455041	50455170
IKZF1_ Exon7_ NM006060	chr7	50459425	50459563
IKZF1_ Exon3_ NM001291840	chr7	50467614	50468327
JAK2_ Intron2_ Amp1	chr9	4994244	4994383
JAK2_ Intron2_ Amp2	chr9	5003244	5003383
JAK2_ Intron2_ Amp3	chr9	5015244	5015383
JAK2_ Exon3_ NM004972	chr9	5021986	5022215
JAK2_ Intron3_ Amp1	chr9	5024344	5024483
JAK2_ Exon4_ NM004972	chr9	5029781	5029908
JAK2_ Exon5_ NM004972	chr9	5044401	5044522
JAK2_ Exon6_ NM004972	chr9	5050684	5050833
JAK2_ Exon7_ NM004972	chr9	5054561	5054886
JAK2_ Exon8_ NM004972	chr9	5055667	5055790
JAK2_ Intron8_ Amp1	chr9	5061919	5062058
JAK2_ Exon9_ NM004972	chr9	5064881	5065042
JAK2_ Exon10_ NM004972	chr9	5066676	5066791
JAK2_ Exon11_ NM004972	chr9	5069020	5069210
JAK2_ Exon12_ NM004972	chr9	5069923	5070054
JAK2_ Intron12_ Amp1	chr9	5071183	5071322
JAK2_ Intron12_ Amp2	chr9	5072183	5072322
JAK2_ Exon13_ NM004972	chr9	5072490	5072628
JAK2_ Exon14_ NM004972	chr9	5073696	5073787
JAK2_ Exon15_ NM004972	chr9	5077451	5077582

JAK2_Exon16_NM004972	chr9	5078304	5078446
JAK2_Intron16_Amp1	chr9	5079575	5079714
JAK2_Exon17_NM004972	chr9	5080227	5080382
JAK2_Exon18_NM004972	chr9	5080531	5080685
JAK2_Exon19_NM004972	chr9	5081723	5081863
JAK2_Intron19_Amp1	chr9	5082992	5083131
JAK2_Exon20_NM004972	chr9	5089672	5089865
JAK2_Exon21_NM004972	chr9	5090444	5090572
JAK2_Exon22_NM004972	chr9	5090737	5090913
JAK2_Exon23_NM004972	chr9	5123002	5123123
JAK2_Exon24_NM004972	chr9	5126331	5126448
JAK2_Exon25_NM004972	chr9	5126682	5126793
KDM6A_Exon1_NM001291415	chrX	44732796	44732960
KDM6A_Exon2_NM001291415	chrX	44733168	44733235
KDM6A_Exon3_NM001291415	chrX	44820527	44820639
KDM6A_Exon4_NM001291415	chrX	44833909	44833962
KDM6A_Exon5_NM001291415	chrX	44870204	44870266
KDM6A_Exon6_NM001291415	chrX	44879853	44879977
KDM6A_Exon7_NM001291415	chrX	44894174	44894232
KDM6A_Exon8_NM001291415	chrX	44896898	44896936
KDM6A_Exon9_NM001291415	chrX	44910952	44911049
KDM6A_Exon10_NM001291415	chrX	44913072	44913202
KDM6A_Exon11_NM001291415	chrX	44918249	44918351
KDM6A_Exon12_NM001291415	chrX	44918490	44918713
KDM6A_Exon13_NM001291415	chrX	44919265	44919403
KDM6A_Exon14_NM001291415	chrX	44919852	44920011
KDM6A_Exon15_NM001291415	chrX	44920567	44920666
KDM6A_Exon16_NM001291415	chrX	44921890	44921995
KDM6A_Exon17_NM001291415	chrX	44922665	44923064
KDM6A_Exon18_NM001291415	chrX	44928822	44929604
KDM6A_Exon19_NM001291415	chrX	44935940	44936073
KDM6A_Exon20_NM001291415	chrX	44937643	44937752
KDM6A_Exon21_NM001291415	chrX	44938389	44938598
KDM6A_Exon22_NM001291415	chrX	44941819	44941887
KDM6A_Exon23_NM001291415	chrX	44941958	44942036
KDM6A_Exon24_NM001291415	chrX	44942703	44942855
KDM6A_Exon25_NM001291415	chrX	44945108	44945226
KDM6A_Exon26_NM001291415	chrX	44948986	44949177
KDM6A_Exon27_NM001291415	chrX	44949966	44950111
KDM6A_Exon28_NM001291415	chrX	44966653	44966783
KDM6A_Exon29_NM001291415	chrX	44969322	44969496
KDM6A_Exon27_NM001291418	chrX	44970625	44970658
KRAS_Exon5_Amp1	chr12	25359177	25359320
KRAS_Exon5_Amp2	chr12	25362177	25362320
KRAS_Exon5_NM004985	chr12	25362727	25362847
KRAS_Intron5_Amp1	chr12	25363977	25364115
KRAS_Intron5_Amp2	chr12	25364977	25365115

KRAS_Intron5_Amp3	chr12	25366977	25367115
KRAS_Exon5_NM033360	chr12	25368369	25368496
KRAS_Intron4_Amp1	chr12	25369626	25369764
KRAS_Intron4_Amp2	chr12	25370126	25370264
KRAS_Intron4_Amp3	chr12	25371395	25371534
KRAS_Intron4_Amp4	chr12	25372395	25372534
KRAS_Intron4_Amp5	chr12	25372626	25372764
KRAS_Intron4_Amp6	chr12	25372895	25373034
KRAS_Intron4_Amp7	chr12	25374126	25374264
KRAS_Intron4_Amp8	chr12	25377126	25377264
KRAS_Exon4_NM033360	chr12	25378546	25378709
KRAS_Intron3_Amp1	chr12	25379339	25379477
KRAS_Exon3_NM033360	chr12	25380166	25380348
KRAS_Intron2_Amp1	chr12	25380478	25380616
KRAS_Intron2_Amp2	chr12	25384478	25384616
KRAS_Intron2_Amp3	chr12	25388978	25389116
KRAS_Intron2_Amp4	chr12	25389478	25389616
KRAS_Intron2_Amp5	chr12	25389747	25389886
KRAS_Intron2_Amp6	chr12	25390747	25390886
KRAS_Intron2_Amp7	chr12	25392978	25393116
KRAS_Intron2_Amp8	chr12	25393247	25393386
KRAS_Intron2_Amp9	chr12	25394247	25394386
KRAS_Exon2_NM004985	chr12	25398206	25398320
KRAS_Intron1_Amp1	chr12	25400449	25400588
KRAS_Intron1_Amp2	chr12	25400950	25401088
KRAS_Intron1_Amp3	chr12	25401219	25401358
MYC_Flanking1_Amp1	chr8	128743614	128743753
MYC_Flanking2_Amp1	chr8	128743914	128744053
MYC_Flanking3_Amp1	chr8	128744214	128744353
MYC_Flanking4_Amp1	chr8	128744514	128744653
MYC_Flanking5_Amp1	chr8	128745114	128745253
MYC_Flanking6_Amp1	chr8	128746014	128746153
MYC_Flanking7_Amp1	chr8	128746614	128746753
MYC_Flanking8_Amp1	chr8	128747814	128747953
MYC_Exon1_NM002467	chr8	128748838	128748871
MYC_Intron1_Amp1	chr8	128749001	128749139
MYC_Intron1_Amp2	chr8	128749201	128749339
MYC_Intron1_Amp3	chr8	128749401	128749539
MYC_Intron1_Amp4	chr8	128749601	128749739
MYC_Intron1_Amp5	chr8	128749801	128749939
MYC_Intron1_Amp6	chr8	128750001	128750139
MYC_Intron1_Amp7	chr8	128750201	128750339
MYC_Exon2_NM002467	chr8	128750492	128751267
MYC_Intron2_Amp1	chr8	128751397	128751535
MYC_Intron2_Amp2	chr8	128751597	128751735
MYC_Intron2_Amp3	chr8	128751797	128751935
MYC_Intron2_Amp4	chr8	128751997	128752135

MYC_Intron2_Amp5	chr8	128752397	128752535
MYC_Exon3_NM002467	chr8	128752640	128753206
MYC_Flanking9_Amp1	chr8	128753935	128754074
MYC_Flanking10_Amp1	chr8	128754235	128754374
MYC_Flanking11_Amp1	chr8	128755135	128755274
MYC_Flanking12_Amp1	chr8	128755735	128755874
MYC_Flanking13_Amp1	chr8	128756635	128756774
MYC_Flanking14_Amp1	chr8	128756935	128757074
MYC_Flanking15_Amp1	chr8	128757535	128757674
MYC_Flanking16_Amp1	chr8	128758435	128758574
MYD88_Exon1_NM001172566	chr3	38180151	38180521
MYD88_Exon2_NM001172567	chr3	38181353	38181491
MYD88_Exon3_NM001172567	chr3	38181877	38182085
MYD88_Exon4_NM001172567	chr3	38182246	38182341
MYD88_Exon4_NM001172568	chr3	38182621	38182779
NRAS_Flanking1_Amp1	chr1	115245084	115245223
NRAS_Flanking2_Amp1	chr1	115246284	115246423
NRAS_Exon7_Amp1	chr1	115248583	115248725
NRAS_Exon7_Amp2	chr1	115249083	115249225
NRAS_Exon7_Amp3	chr1	115249652	115249795
NRAS_Exon7_Amp4	chr1	115250083	115250225
NRAS_Exon7_Amp5	chr1	115250583	115250725
NRAS_Exon5_NM002524	chr1	115251154	115251277
NRAS_Intron4_Amp1	chr1	115251407	115251545
NRAS_Intron4_Amp2	chr1	115251976	115252115
NRAS_Exon4_NM002524	chr1	115252188	115252351
NRAS_Intron3_Amp1	chr1	115252981	115253119
NRAS_Intron3_Amp2	chr1	115253481	115253619
NRAS_Intron3_Amp3	chr1	115253981	115254119
NRAS_Intron3_Amp4	chr1	115254481	115254619
NRAS_Intron3_Amp5	chr1	115254750	115254889
NRAS_Intron3_Amp6	chr1	115255350	115255619
NRAS_Intron3_Amp7	chr1	115255981	115256119
NRAS_Exon3_NM002524	chr1	115256419	115256601
NRAS_Intron2_Amp1	chr1	115256731	115256869
NRAS_Intron2_Amp2	chr1	115257231	115257369
NRAS_Intron2_Amp3	chr1	115257500	115257639
NRAS_Intron2_Amp4	chr1	115258231	115258369
NRAS_Exon2_NM002524	chr1	115258669	115258783
NRAS_Intron1_Amp1	chr1	115258913	115259051
NRAS_Exon1_Amp1	chr1	115259411	115259553
NRAS_Flanking3_Amp1	chr1	115260282	115260421
NRAS_Flanking4_Amp1	chr1	115260882	115261021
NRAS_Flanking5_Amp1	chr1	115261482	115261621
PIK3CA_Exon1_Amp1	chr3	178866308	178866451
PIK3CA_Intron1_Amp1	chr3	178868310	178868449
PIK3CA_Intron1_Amp2	chr3	178869310	178869449

PIK3CA_Intron1_Amp3	chr3	178871310	178871449
PIK3CA_Intron1_Amp4	chr3	178876310	178876449
PIK3CA_Intron1_Amp5	chr3	178883310	178883449
PIK3CA_Intron1_Amp6	chr3	178884310	178884449
PIK3CA_Intron1_Amp7	chr3	178888310	178888449
PIK3CA_Intron1_Amp8	chr3	178891310	178891449
PIK3CA_Intron1_Amp9	chr3	178892310	178892449
PIK3CA_Intron1_Amp10	chr3	178893310	178893449
PIK3CA_Intron1_Amp11	chr3	178896310	178896449
PIK3CA_Intron1_Amp12	chr3	178903310	178903449
PIK3CA_Intron1_Amp13	chr3	178912310	178912449
PIK3CA_Exon2_NM006218	chr3	178916612	178916967
PIK3CA_Exon3_NM006218	chr3	178917476	178917689
PIK3CA_Exon4_NM006218	chr3	178919076	178919330
PIK3CA_Exon5_NM006218	chr3	178921330	178921579
PIK3CA_Exon6_NM006218	chr3	178922289	178922378
PIK3CA_Exon7_NM006218	chr3	178927381	178927490
PIK3CA_Exon8_NM006218	chr3	178927972	178928128
PIK3CA_Exon9_NM006218	chr3	178928217	178928355
PIK3CA_Intron9_Amp1	chr3	178928484	178928623
PIK3CA_Intron9_Amp2	chr3	178929484	178929623
PIK3CA_Exon10_NM006218	chr3	178935996	178936124
PIK3CA_Exon11_NM006218	chr3	178936982	178937067
PIK3CA_Exon12_NM006218	chr3	178937357	178937525
PIK3CA_Exon13_NM006218	chr3	178937735	178937842
PIK3CA_Exon14_NM006218	chr3	178938772	178938947
PIK3CA_Exon15_NM006218	chr3	178941867	178941977
PIK3CA_Exon16_NM006218	chr3	178942486	178942611
PIK3CA_Exon17_NM006218	chr3	178943748	178943830
PIK3CA_Exon18_NM006218	chr3	178947058	178947232
PIK3CA_Exon19_NM006218	chr3	178947790	178947911
PIK3CA_Exon20_NM006218	chr3	178948011	178948166
PIK3CA_Intron20_Amp1	chr3	178950295	178950434
PIK3CA_Exon21_NM006218	chr3	178951880	178952154
PIM1_Exon1_NM002648	chr6	37138350	37138435
PIM1_Exon2_NM001243186	chr6	37138547	37138657
PIM1_Exon3_NM001243186	chr6	37138755	37138809
PIM1_Exon4_NM001243186	chr6	37138899	37139269
PIM1_Intron4_Additional1	chr6	37140358	37140570
PIM1_Exon5_NM001243186	chr6	37140770	37140950
PIM1_Exon6_NM001243186	chr6	37141708	37141869
RB1_Exon1_NM000321	chr13	48878047	48878187
RB1_Exon2_NM000321	chr13	48881414	48881544
RB1_Exon3_NM000321	chr13	48916733	48916852
RB1_Exon4_NM000321	chr13	48919214	48919337
RB1_Exon5_NM000321	chr13	48921959	48922001
RB1_Exon6_NM000321	chr13	48923090	48923161

RB1_Exon7_NM000321	chr13	48934151	48934265
RB1_Exon8_NM000321	chr13	48936949	48937095
RB1_Exon9_NM000321	chr13	48939028	48939109
RB1_Exon10_NM000321	chr13	48941628	48941741
RB1_Exon11_NM000321	chr13	48942661	48942742
RB1_Exon12_NM000321	chr13	48947539	48947630
RB1_Exon13_NM000321	chr13	48951052	48951172
RB1_Exon14_NM000321	chr13	48953728	48953788
RB1_Exon15_NM000321	chr13	48954187	48954222
RB1_Exon16_NM000321	chr13	48954299	48954379
RB1_Exon17_NM000321	chr13	48955381	48955581
RB1_Exon18_NM000321	chr13	49027127	49027249
RB1_Exon19_NM000321	chr13	49030338	49030487
RB1_Exon20_NM000321	chr13	49033822	49033971
RB1_Exon21_NM000321	chr13	49037865	49037973
RB1_Exon22_NM000321	chr13	49039132	49039249
RB1_Exon23_NM000321	chr13	49039339	49039506
RB1_Exon24_NM000321	chr13	49047494	49047528
RB1_Exon25_NM000321	chr13	49050835	49050981
RB1_Exon26_NM000321	chr13	49051489	49051542
RB1_Exon27_NM000321	chr13	49054132	49054209
STAT3_Exon24_NM003150	chr17	40467761	40467820
STAT3_Exon23_NM139276	chr17	40468805	40468921
STAT3_Exon22_NM139276	chr17	40469198	40469244
STAT3_Exon21_NM139276	chr17	40474298	40474514
STAT3_Exon20_NM139276	chr17	40475020	40475163
STAT3_Exon19_NM139276	chr17	40475276	40475374
STAT3_Exon18_NM139276	chr17	40475589	40475645
STAT3_Exon17_NM139276	chr17	40476727	40476866
STAT3_Exon16_NM139276	chr17	40476979	40477081
STAT3_Exon15_NM139276	chr17	40478132	40478219
STAT3_Exon14_NM139276	chr17	40481426	40481477
STAT3_Exon13_NM139276	chr17	40481570	40481667
STAT3_Exon12_NM139276	chr17	40481763	40481796
STAT3_Exon11_NM139276	chr17	40483488	40483551
STAT3_Exon10_NM139276	chr17	40485689	40485785
STAT3_Exon9_NM139276	chr17	40485907	40486069
STAT3_Exon8_NM139276	chr17	40489451	40489606
STAT3_Exon7_NM139276	chr17	40489779	40489877
STAT3_Exon6_NM139276	chr17	40490747	40490832
STAT3_Exon5_NM139276	chr17	40491330	40491429
STAT3_Exon4_NM139276	chr17	40497575	40497677
STAT3_Exon3_NM139276	chr17	40498585	40498733
STAT3_Exon2_NM003150	chr17	40500405	40500536
LoH_TP53_1	chr17	7572032	7572171
LoH_TP53_10	chr17	7575935	7576073
LoH_TP53_11	chr17	7577338	7577497

LoH_TP53_12	chr17	7578046	7578176
LoH_TP53_13	chr17	7578812	7578907
LoH_TP53_14	chr17	7579591	7579689
LoH_TP53_15	chr17	7579983	7580122
LoH_TP53_16	chr17	7580431	7580570
LoH_TP53_17	chr17	7581055	7581194
LoH_TP53_18	chr17	7581626	7581764
LoH_TP53_19	chr17	7582944	7583153
LoH_TP53_2	chr17	7572303	7572441
LoH_TP53_20	chr17	7583285	7583423
LoH_TP53_21	chr17	7585985	7586123
LoH_TP53_22	chr17	7587485	7587623
LoH_TP53_23	chr17	7587830	7587969
LoH_TP53_24	chr17	7588401	7588630
LoH_TP53_25	chr17	7589062	7589200
LoH_TP53_26	chr17	7589662	7589800
LoH_TP53_27	chr17	7590055	7590194
LoH_TP53_28	chr17	7590326	7590464
LoH_TP53_29	chr17	7590626	7590764
LoH_TP53_3	chr17	7572603	7572741
LoH_TP53_4	chr17	7573440	7573578
LoH_TP53_5	chr17	7573740	7573878
LoH_TP53_6	chr17	7574465	7574603
LoH_TP53_7	chr17	7574867	7575006
LoH_TP53_8	chr17	7575138	7575276
LoH_TP53_9	chr17	7575664	7575803
TP53_Exon1_NM001126115	chr17	7578369	7578813
TP53_Exon10_NM001126112	chr17	7573925	7574035
TP53_Exon10_NM001126114	chr17	7576523	7576659
TP53_Exon10_NM001126118	chr17	7572925	7573010
TP53_Exon3_Additional1	chr17	7579698	7579914
TP53_Exon4_NM001126112	chr17	7579310	7579592
TP53_Exon6_NM001126112	chr17	7578175	7578291
TP53_Exon7_NM001126112	chr17	7577497	7577610
TP53_Exon8_NM001126112	chr17	7577017	7577157
TP53_Exon9_NM001126112	chr17	7576851	7576928