

Supplemental Table 3

(a) BWA/Novoalign - CREST Structural Variant Detection Summary

SV Name	SubjectID	Alignment	chrA	PosA	chrB	PosB	chrB	PosB	chrB	SVType	Type	ConsensusSeq	InsSeq	GeneA	GeneA_Region	GeneA_Strand	GeneB	GeneB_Region	GeneB_Strand	AffectedGenes_Region	FusionPrediction_Directional	SV ID
ALK-intergenic_Y31	Y31	nva	chr2	29933399 +	6 chr8	125204959 +	2 CTX	AAACATC(GTGTG	ALK	intronic	-			ALK	intronic	-	EZR	intergenic	-	intronic	NA	8 42
EZR->ROS1_Y35	Y35	bwa	chr6	117647330 +	0 chr6	159191320 +	7 DEL	TATCTATTT	ROS1	intronic	-			ROS1	intronic	-	EZR	intronic	-	exonic	EZR->ROS1	7 23
EZR->ROS1_Y35	Y35	nva	chr6	117647330 +	0 chr6	159191320 +	10 DEL	TATCTATTT	ROS1	intronic	-			ROS1	intronic	-	EZR	intronic	-	exonic	EZR->ROS1	10 23
<-EZR:MYO18B->_Y35	Y35	nva	chr6	159191349 +	10 chr22	26237362 +	3 CTX	AGCCGCCG	EZR	intronic	-			EZR	intronic	-	MYO18B	intronic	+	intronic	<-EZR:MYO18B->	13 35
<-EZR:MYO18B->_Y35	Y35	bwa	chr6	159191350 +	8 chr22	26237364 +	0 CTX	AGCCGCCA	EZR	intronic	-			EZR	intronic	-	MYO18B	intronic	+	intronic	<-EZR:MYO18B->	8 35
<-ROS1:GJA1->_Y35	Y35	bwa	chr6	117647551 +	20 chr6	121757164 +	4 DEL	ACTCTGA/G	ROS1	exonic	-			ROS1	exonic	-	GJA1	intronic	+	exonic	<-ROS1:GJA1->	24 40
<-ROS1:GJA1->_Y35	Y35	nva	chr6	117647551 +	23 chr6	121757164 +	3 DEL	CTACTCTG	ROS1	exonic	-			ROS1	exonic	-	GJA1	intronic	+	exonic	<-ROS1:GJA1->	26 40
<-ROS1:ALKBH3->_Y65	Y65	nva	chr6	117681462 +	5 chr11	43917845 +	0 CTX	TTGGGGT A	ROS1	intronic	-			ROS1	intronic	-	ALKBH3	intronic	+	intronic	<-ROS1:ALKBH3->	5 36
<-ROS1:ALKBH3->_Y65	Y65	bwa	chr6	117681462 +	7 chr11	43917845 +	0 CTX	GGTCAAA A	ROS1	intronic	-			ROS1	intronic	-	ALKBH3	intronic	+	intronic	<-ROS1:ALKBH3->	7 36
SND1->BRAF_Y69	Y69	nva	chr7	127347704 +	5 chr7	140550011 -	1 ITX	GAGAGGT	SND1	intronic	+			SND1	intronic	+	BRAF	exonic	-	exonic	SND1->BRAF	6 22
SND1->BRAF_Y69	Y69	nva	chr7	140550014 +	4 chr7	127347704 -	5 ITX	GAGAGGT	BRAF	intronic	-			BRAF	intronic	-	SND1	intronic	+	intronic	SND1->BRAF	9 22
ALK->SMURF2_Y69	Y69	bwa	chr17	62609797 +	0 chr2	29519589 +	9 CTX	CTTCATGCG	SMURF2	intronic	-			SMURF2	intronic	-	ALK	intronic	-	intronic	ALK->SMURF2	9 27
ALK->SMURF2_Y69	Y69	nva	chr17	62609797 +	0 chr2	29519589 +	14 CTX	CTTCATGCG	SMURF2	intronic	-			SMURF2	intronic	-	ALK	intronic	-	intronic	ALK->SMURF2	14 27
CD74->ROS1_Y73	Y73	nva	chr6	117646510 +	3 chr5	149783549 +	17 CTX	AGGATGA TAA	ROS1	intronic	-			ROS1	intronic	-	CD74	intronic	-	intronic	CD74->ROS1	20 20
CD74->ROS1_Y73	Y73	bwa	chr6	117646512 +	34 chr5	149783549 +	6 CTX	AAGTCTTA	ROS1	intronic	-			ROS1	intronic	-	CD74	intronic	-	intronic	CD74->ROS1	40 20
<-ALK:DKK2->_Y73	Y73	nva	chr2	29893372 +	3 chr4	107904603 -	1 CTX	TGTTATTT	ALK	intronic	-			ALK	intronic	-	DKK2	intronic	-	intronic	<-ALK:DKK2->	4 33
ARID1B->EZR_Y77	Y77	nva	chr6	159235592 +	4 chr6	157217685 -	2 ITX	CCAGGTA	EZR	intronic	-			EZR	intronic	-	ARID1B	intronic	+	intronic	ARID1B->EZR	6 29
<-TERT:CDH4->_Y79	Y79	nva	chr5	1285136 +	19 chr20	60098818 +	22 CTX	TCACCGC T	TERT	intronic	-			TERT	intronic	-	CDH4	intronic	+	intronic	<-TERT:CDH4->	41 37
<-TERT:CDH4->_Y79	Y79	bwa	chr5	1285137 +	5 chr20	60098818 +	6 CTX	GCAGGGCT	TERT	intronic	-			TERT	intronic	-	CDH4	intronic	+	intronic	<-TERT:CDH4->	11 37
<-TERT:CDH4->_Y79	Y79	bwa	chr5	1285258 +	38 chr20	60098818 +	6 CTX	CCGCGGT	TERT	intronic	-			TERT	intronic	-	CDH4	intronic	+	intronic	<-TERT:CDH4->	44 37
BRAF->SMA4_Y79	Y79	nva	chr5	69485663 +	1 chr7	140611466 +	3 CTX	TACAATA/ T	SMA4	intronic	-			SMA4	intronic	-	BRAF	intronic	-	intronic	BRAF->SMA4	4 39
EML4->BIRC6_891A	891A	bwa	chr2	42494473 +	105 chr2	32820090 +	19 INS	TGAATTTCT	EML4	intronic	+			EML4	intronic	+	BIRC6	intronic	+	exonic	EML4->BIRC6	124 24
EML4->BIRC6_891A	891A	nva	chr2	42494473 +	133 chr2	32820090 +	27 INS	ATATGAAIT	EML4	intronic	+			EML4	intronic	+	BIRC6	intronic	+	exonic	EML4->BIRC6	160 24
AAK1->ALK_891A	891A	nva	chr2	29453351 +	33 chr2	69799477 +	24 DEL	ACCCTTTCTG	ALK	intronic	-			ALK	intronic	-	AAK1	intronic	-	exonic	AAK1->ALK	57 25
AAK1->ALK_891A	891A	bwa	chr2	29453372 +	82 chr2	69799477 +	12 DEL	CAGCAGA TGAGGCCAG	ALK	intronic	-			ALK	intronic	-	AAK1	intronic	-	exonic	AAK1->ALK	94 25
HIP1->ALK_Y02	Y02	nva	chr2	29446894 +	12 chr7	75184556 +	8 CTX	AACCCCAI T	ALK	intronic	-			ALK	intronic	-	HIP1	intronic	-	intronic	HIP1->ALK	20 21
HIP1->ALK_Y02	Y02	bwa	chr2	29446898 +	15 chr7	75184556 +	1 CTX	CGTGAAC C	ALK	intronic	-			ALK	intronic	-	HIP1	intronic	-	intronic	HIP1->ALK	16 21
ALK->TBC1D4_Y02	Y02	bwa	chr13	75923056 +	0 chr2	29872084 +	8 CTX	AATACCTIG	TBC1D4	intronic	-			TBC1D4	intronic	-	ALK	intronic	-	intronic	ALK->TBC1D4	8 28
ALK->TBC1D4_Y02	Y02	nva	chr13	75923056 +	0 chr2	29872084 +	12 CTX	AATACCTIG	TBC1D4	intronic	-			TBC1D4	intronic	-	ALK	intronic	-	intronic	ALK->TBC1D4	12 28
EML4->ALK_Y04	Y04	nva	chr2	42508107 +	11 chr2	29447605 -	1 ITX	ATGTTTTATG	EML4	exonic	+			ALK	intronic	-	ALK	intronic	-	exonic	EML4->ALK	12 1
EML4->ALK_Y04	Y04	nva	chr2	29447607 +	6 chr2	42508107 -	11 ITX	ATGTTTTATA	ALK	intronic	-			ALK	intronic	-	EML4	exonic	+	exonic	EML4->ALK	17 1
EML4->ALK_Y04	Y04	bwa	chr2	29447608 +	21 chr2	42508108 -	21 ITX	GCGCGGT	ALK	intronic	-			ALK	intronic	-	EML4	exonic	+	exonic	EML4->ALK	42 1
EML4->ALK_Y04	Y04	bwa	chr2	42508108 +	21 chr2	29447608 -	21 ITX	AATGGACI	EML4	exonic	+			ALK	intronic	-	ALK	intronic	-	exonic	EML4->ALK	42 1
ALK->EML4_Y05	Y05	bwa	chr2	29446771 -	11 chr2	42496486 +	4 ITX	AGGATAG AA	ALK	intronic	+			ALK	intronic	+	EML4	intronic	+	intronic	ALK->EML4	15 14
ALK->EML4_Y05	Y05	nva	chr2	29446771 -	22 chr2	42496486 +	7 ITX	AGGATAG AA	ALK	intronic	+			ALK	intronic	+	EML4	intronic	+	intronic	ALK->EML4	29 14
ALK->EML4_Y05	Y05	bwa	chr2	42496486 -	4 chr2	29446771 +	11 ITX	AGGATAG AA	EML4	intronic	+			ALK	intronic	+	ALK	intronic	-	intronic	ALK->EML4	15 14
ALK->EML4_Y05	Y05	nva	chr2	42496486 -	7 chr2	29446771 +	22 ITX	AGGATAG AA	EML4	intronic	+			ALK	intronic	+	ALK	intronic	-	intronic	ALK->EML4	29 14
<-ALK:EML4->_Y05	Y05	nva	chr2	29446766 +	11 chr2	42495791 +	11 DEL	AGCAGAC G	ALK	intronic	-			ALK	intronic	-	EML4	intronic	+	intronic	<-ALK:EML4->	22 19
<-ALK:EML4->_Y05	Y05	nva	chr2	29446766 +	11 chr2	42495791 +	11 DEL	AGCAGAC T	ALK	intronic	-			ALK	intronic	-	EML4	intronic	+	exonic	<-ALK:EML4->	22 19
<-ALK:EML4->_Y05	Y05	bwa	chr2	29446769 +	14 chr2	42495787 +	10 DEL	AGCAGAC AGGCT	ALK	intronic	-			ALK	intronic	-	EML4	intronic	+	exonic	<-ALK:EML4->	24 19
EML4->ALK_Y06	Y06	nva	chr2	29447381 +	10 chr2	42523099 -	3 ITX	ATGAATTC	ALK	intronic	-			ALK	intronic	-	EML4	intronic	+	intronic	EML4->ALK	13 2
ALK->EML4_Y06	Y06	bwa	chr2	29447383 -	14 chr2	42523102 +	17 ITX	CATTTGGCCT	ALK	intronic	-			ALK	intronic	-	EML4	intronic	+	intronic	ALK->EML4	31 15
ALK->EML4_Y06	Y06	nva	chr2	29447383 -	28 chr2	42523102 +	32 ITX	CTCATTTCTCT	ALK	intronic	-			ALK	intronic	-	EML4	intronic	+	intronic	ALK->EML4	60 15
ALK->EML4_Y06	Y06	bwa	chr2	42523102 -	17 chr2	29447383 +	14 ITX	CATTTGGC/TA	EML4	intronic	+			ALK	intronic	+	ALK	intronic	-	intronic	ALK->EML4	31 15
AC009264.1->SND1_Y06	Y06	bwa	chr7	136757814 -	0 chr7	127615438 +	5 ITX	CCTTCTTCGTGTGTGTG	AC009264.1	intronic	-			SND1	intronic	-	SND1	intronic	+	intronic	AC009264.1->SND1	5 41
AC009264.1->SND1_Y06	Y06	nva	chr7	136757828 -	0 chr7	127615478 +	6 ITX	CCTTCTTC/ TG	AC009264.1	intronic	-			SND1	intronic	-	SND1	intronic	+	intronic	AC009264.1->SND1	6 41
EML4->ALK_Y07	Y07	bwa	chr2	42525286 +	28 chr2	29448172 -	1 ITX	ATTTGTAATCTTTTAAAGT	EML4	intronic	+			ALK	intronic	+	ALK	intronic	+	intronic	EML4->ALK	29 3
EML4->ALK_Y07	Y07	nva	chr2	29448174 +	5 chr2	42525284 -	3 ITX	GCAGAA/ T	ALK	intronic	-			ALK	intronic	-	EML4	intronic	+	intronic	EML4->ALK	8 3
EML4->ALK_Y07	Y07	nva	chr2	42525285 +	21 chr2	29448174 -	5 ITX	AAATTTGT/ A	EML4	intronic	+			ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	26 3
EML4->ALK_Y07	Y07	bwa	chr2	29448176 +	28 chr2	42525286 -	28 ITX	ATTTGTA/ A	ALK	intronic	-			ALK	intronic	-	EML4	intronic	+	intronic	EML4->ALK	56 3
ATP10B-><-ALK_Y07	Y07	nva	chr5	160040791 -	0 chr2	29463347 +	28 CTX	ACTTAGG/ TA	ATP10B	intronic	-			ATP10B	intronic	-	ALK	intronic	-	intronic	ATP10B-><-ALK	28 32
ATP10B-><-ALK_Y07	Y07	bwa	chr5	160040791 -	1 chr2	29463347 +	15 CTX	GAAAAGC TA	ATP10B	intronic	-			ATP10B	intronic	-	ALK	intronic	-	intronic	ATP10B-><-ALK	16 32
<-ALK:LINC00299->_Y07	Y07	nva	chr2	30067378 +	3 chr2	8234554 -	4 ITX	TCAAGAC/	ALK	intronic	-			ALK	intronic	-	LINC00299	intronic	-	intronic	<-ALK:LINC00299->	7 38
<-ALK:LINC00299->_Y07	Y07	bwa	chr2	30067380 +	17 chr2	8234562 -	7 ITX	CAACAGG	ALK	intronic	-			ALK	intronic	-	LINC00299	intronic	-	intronic	<-ALK:LINC00299->	24 38
EML4->ALK_Y08	Y08	nva	chr2	29447445 +	22 chr2	42499308 -	3 ITX	ACTTAA/ T	ALK	intronic	-			ALK	intronic	-	EML4	intronic	+	intronic	EML4->ALK	25 4

Supplemental Table 3

(a) BWA/Novoalign - CREST Structural Variant Detection Summary

SV Name	SubjectID	Alignment	chrA	PosA	oriA	SClipA	chrB	PosB	oriB	SClipB	Type	ConsensusSeq	InsSeq	GeneA	GeneA_Region	GeneA_Strand	GeneB	GeneB_Region	GeneB_Strand	AffectedGenes_Region	FusionPrediction_Directional	Scip	SV ID
EML4->ALK_Y08	Y08	nva	chr2	42499308 +		3 chr2	29447445 -	22 ITX	ACCATTA1G	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	25	4	
ALK->EML4_Y08	Y08	bwa	chr2	29447441 -		16 chr2	42499310 +	9 ITX	CTATGCTTTC	ALK	intronic	-	EML4	intronic	-	EML4	intronic	+	intronic	ALK->EML4	25	16	
ALK->EML4_Y08	Y08	bwa	chr2	42499310 -		9 chr2	29447441 +	16 ITX	CTATGCTTCA	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	ALK->EML4	25	16	
EML4->ALK_Y12	Y12	nva	chr2	42524069 +		7 chr2	29446831 -	1 ITX	CAGATGC	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	8	5	
EML4->ALK_Y12	Y12	bwa	chr2	29446833 +		5 chr2	42524070 -	5 ITX	CAGATGC	ALK	intronic	-	EML4	intronic	-	EML4	intronic	+	intronic	EML4->ALK	10	5	
EML4->ALK_Y12	Y12	nva	chr2	29446833 +		6 chr2	42524069 -	7 ITX	CAGATGC	ALK	intronic	-	EML4	intronic	+	ALK	intronic	+	intronic	EML4->ALK	13	5	
EML4->ALK_Y12	Y12	bwa	chr2	42524070 +		5 chr2	29446833 -	5 ITX	TGGGGAGGGAGCCAGG	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	10	5	
EML4->ALK_Y15	Y15	nva	chr2	29447216 +		4 chr2	42498634 -	1 ITX	TGGGGAT A	ALK	intronic	-	EML4	intronic	-	EML4	intronic	+	intronic	EML4->ALK	5	6	
EML4->ALK_Y15	Y15	bwa	chr2	29447216 +		4 chr2	42498635 -	2 ITX	CTGTGCTA	ALK	intronic	-	EML4	intronic	+	ALK	intronic	+	intronic	EML4->ALK	6	6	
EML4->ALK_Y15	Y15	nva	chr2	42498635 +		9 chr2	29447216 -	4 ITX	TTTCTCTGTTGGAGATT	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	13	6	
EML4->ALK_Y18	Y18	bwa	chr2	29447564 +		29 chr2	42530299 -	13 ITX	GGGCCAAA	ALK	intronic	-	EML4	intronic	-	EML4	exonic	+	exonic	EML4->ALK	42	7	
EML4->ALK_Y18	Y18	nva	chr2	29447564 +		51 chr2	42530299 -	36 ITX	GCCAGGC	ALK	intronic	-	EML4	intronic	-	EML4	exonic	+	exonic	EML4->ALK	87	7	
EML4->ALK_Y18	Y18	bwa	chr2	42530299 +		13 chr2	29447564 -	29 ITX	GGGCCAAA	EML4	exonic	+	ALK	intronic	+	ALK	intronic	-	exonic	EML4->ALK	42	7	
EML4->ALK_Y18	Y18	nva	chr2	42530299 +		36 chr2	29447564 -	51 ITX	GCCAGGC	EML4	exonic	+	ALK	intronic	-	ALK	intronic	-	exonic	EML4->ALK	87	7	
ALK->EML4_Y18	Y18	bwa	chr2	29447475 -		23 chr2	42530756 +	8 ITX	CAAAGTG/GA	ALK	intronic	-	EML4	intronic	+	ALK	intronic	+	intronic	ALK->EML4	31	17	
ALK->EML4_Y18	Y18	nva	chr2	29447475 -		52 chr2	42530756 +	6 ITX	CCTTGTG/GA	ALK	intronic	-	EML4	intronic	-	EML4	intronic	+	intronic	ALK->EML4	58	17	
ALK->EML4_Y18	Y18	nva	chr2	42530756 -		6 chr2	29447475 +	52 ITX	CCTTGTG/GA	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	ALK->EML4	58	17	
ALK->EML4_Y18	Y18	bwa	chr2	42530756 -		8 chr2	29447475 +	23 ITX	CAAAGTG/GA	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	ALK->EML4	31	17	
EML4->ALK_Y22	Y22	nva	chr2	42477480 +		15 chr2	29447604 -	4 ITX	AAAGGCA	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	19	8	
EML4->ALK_Y22	Y22	bwa	chr2	29447606 +		10 chr2	42477480 -	8 ITX	TATGCAA1	ALK	intronic	-	EML4	intronic	-	EML4	intronic	+	intronic	EML4->ALK	18	8	
EML4->ALK_Y22	Y22	nva	chr2	29447606 +		13 chr2	29447606 -	1 ITX	CTATGCA/	ALK	intronic	-	EML4	intronic	-	EML4	intronic	+	intronic	EML4->ALK	14	8	
EML4->ALK_Y22	Y22	bwa	chr2	42477480 +		8 chr2	29447606 -	10 ITX	TATGCAATGGACCGACC	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	18	8	
ALK->SETD2_Y22	Y22	bwa	chr3	47122359 +		0 chr2	29447607 +	10 CTX	TTTCTCTCT	SETD2	intronic	-	ALK	intronic	-	ALK	intronic	-	intronic	ALK->SETD2	10	26	
ALK->SETD2_Y22	Y22	nva	chr3	47122359 +		0 chr2	29447607 +	10 CTX	TTTCCCGT	SETD2	intronic	-	ALK	intronic	-	ALK	intronic	-	intronic	ALK->SETD2	10	26	
EML4->ALK_Y26	Y26	nva	chr2	42498515 +		4 chr2	29448356 -	2 ITX	TATTTTTA GGGT	EML4	intronic	+	ALK	intronic	+	ALK	exonic	-	exonic	EML4->ALK	6	9	
EML4->ALK_Y26	Y26	bwa	chr2	29448357 +		18 chr2	42498517 -	17 ITX	GCCTGAG AC	ALK	exonic	-	EML4	intronic	+	ALK	intronic	+	exonic	EML4->ALK	35	9	
EML4->ALK_Y26	Y26	nva	chr2	29448357 +		39 chr2	42498515 -	4 ITX	CACAGCC AC	ALK	exonic	-	EML4	intronic	+	ALK	intronic	+	exonic	EML4->ALK	43	9	
EML4->ALK_Y26	Y26	bwa	chr2	42498517 +		17 chr2	29448357 -	18 ITX	GCCTGAG AC	EML4	intronic	+	ALK	intronic	+	ALK	exonic	-	exonic	EML4->ALK	35	9	
EML4->ALK_Y27	Y27	nva	chr2	42502145 +		11 chr2	29447467 -	7 ITX	CACCTCTTCCAAAGATA	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	18	10	
EML4->ALK_Y27	Y27	bwa	chr2	42502145 +		15 chr2	29447468 -	8 ITX	AAAGATAGTAGAGCAGA	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	23	10	
ITPR1->ALK_Y27	Y27	nva	chr2	29991266 +		6 chr3	4659472 -	4 CTX	GGTAATT/	ALK	intronic	-	ITPR1	intronic	-	ITPR1	intronic	+	intronic	ITPR1->ALK	10	30	
EML4->ALK_Y52	Y52	nva	chr2	42494477 +		5 chr2	29448192 -	2 ITX	TTGTATTAT	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	7	11	
EML4->ALK_Y52	Y52	bwa	chr2	42494478 +		27 chr2	29448192 -	1 ITX	GGCAGTAAACCTTGCA	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	28	11	
ALK->EML4_Y52	Y52	bwa	chr2	42494496 -		6 chr2	29448203 +	15 ITX	AAATTAATAA	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	ALK->EML4	21	18	
ALK->EML4_Y52	Y52	nva	chr2	42494496 -		14 chr2	29448203 +	27 ITX	AAATTAATAA	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	ALK->EML4	41	18	
EML4->ALK_Y59	Y59	nva	chr2	29446932 +		14 chr2	42522793 -	1 ITX	CACCCGTG C	ALK	intronic	-	EML4	intronic	+	ALK	intronic	+	intronic	EML4->ALK	15	12	
EML4->ALK_Y59	Y59	bwa	chr2	29446932 +		17 chr2	42522797 -	10 ITX	GTGCCATC	ALK	intronic	-	EML4	intronic	-	EML4	intronic	+	intronic	EML4->ALK	27	12	
EML4->ALK_Y59	Y59	nva	chr2	42522794 +		16 chr2	29446932 -	14 ITX	AGTACTC G	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	30	12	
EML4->ALK_Y59	Y59	bwa	chr2	42522797 +		10 chr2	29446932 -	17 ITX	GTGCCATGGAGCCTAAC	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	27	12	
ADCY3-><-ALK_Y59	Y59	bwa	chr2	25105528 -		1 chr2	29452623 +	5 ITX	AATTTTAT AC	ADCY3	intronic	-	ALK	intronic	-	ALK	intronic	-	intronic	ADCY3-><-ALK	6	31	
ADCY3-><-ALK_Y59	Y59	nva	chr2	25105528 -		1 chr2	29452623 +	11 ITX	CCTTGAGIAC	ADCY3	intronic	-	ALK	intronic	-	ALK	intronic	-	intronic	ADCY3-><-ALK	12	31	
EML4->ALK_Y61	Y61	bwa	chr2	29448680 +		36 chr2	42525754 -	43 ITX	ACAGGTA.GGGGCTCTG	ALK	intronic	+	EML4	intronic	+	EML4	intronic	+	intronic	EML4->ALK	79	13	
EML4->ALK_Y61	Y61	bwa	chr2	42525754 +		43 chr2	29448680 +	36 ITX	ACAGGTA.GGGGCTCTG	EML4	intronic	+	ALK	intronic	+	ALK	intronic	-	intronic	EML4->ALK	79	13	
<-ALK:MTA3->_Y61	Y61	nva	chr2	29575087 +		4 chr2	42807780 +	4 DEL	GTGCTACI A	ALK	intronic	-	MTA3	intronic	-	MTA3	intronic	+	exonic	<-ALK:MTA3->	8	34	
<-ALK:MTA3->_Y61	Y61	bwa	chr2	29575088 +		20 chr2	42807782 +	0 DEL	CTACCGA T	ALK	intronic	-	MTA3	intronic	-	MTA3	intronic	+	exonic	<-ALK:MTA3->	20	34	