



Next-generation sequencing (NGS) is performed to test for the presence of microsatellite instability, single nucleotide variations, deletions, and insertions in coding regions and intron/exon boundaries of the genes listed. Additionally, this test assesses for *BCOR* internal tandem duplications in exon 15. When appropriate, alterations detected are confirmed by an independent reference method, such as Sanger sequencing. Default reportable range offset is +/-2 base pairs around each targeted exon region with the following exception: *TERT* promoter region.

Genomic Build: GRCh37 (hg19) unless otherwise specified

As a result of technical limitations of the assay (including regions of homology, high GC content, and repetitive sequences), there are regions of some genes that cannot be effectively evaluated. Refer to gene regions table below for complete gene coverage information. To verify if a specific region/exon/variant is covered by this assay, contact the laboratory at 800-533-1710.

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|------|------|------------|---------------|--------------|----------------------|
| ALK | Ex1 | chr2 | 30142857 | 30143527 | NM_004304 |
| ALK | Ex2 | chr2 | 29940442 | 29940565 | NM_004304 |
| ALK | Ex3 | chr2 | 29917714 | 29917882 | NM_004304 |
| ALK | Ex4 | chr2 | 29754779 | 29754984 | NM_004304 |
| ALK | Ex5 | chr2 | 29606596 | 29606727 | NM_004304 |
| ALK | Ex6 | chr2 | 29551214 | 29551349 | NM_004304 |
| ALK | Ex7 | chr2 | 29543615 | 29543750 | NM_004304 |
| ALK | Ex8 | chr2 | 29541168 | 29541272 | NM_004304 |
| ALK | Ex9 | chr2 | 29519752 | 29519925 | NM_004304 |
| ALK | Ex10 | chr2 | 29498266 | 29498364 | NM_004304 |
| ALK | Ex11 | chr2 | 29497963 | 29498095 | NM_004304 |
| ALK | Ex12 | chr2 | 29473969 | 29474135 | NM_004304 |
| ALK | Ex13 | chr2 | 29462544 | 29462698 | NM_004304 |
| ALK | Ex14 | chr2 | 29456429 | 29456564 | NM_004304 |
| ALK | Ex15 | chr2 | 29455168 | 29455316 | NM_004304 |
| ALK | Ex16 | chr2 | 29451748 | 29451934 | NM_004304 |
| ALK | Ex17 | chr2 | 29450438 | 29450540 | NM_004304 |
| ALK | Ex18 | chr2 | 29449786 | 29449942 | NM_004304 |
| ALK | Ex19 | chr2 | 29448325 | 29448433 | NM_004304 |
| ALK | Ex20 | chr2 | 29446206 | 29446396 | NM_004304 |
| ALK | Ex21 | chr2 | 29445381 | 29445475 | NM_004304 |
| ALK | Ex22 | chr2 | 29445208 | 29445276 | NM_004304 |
| ALK | Ex23 | chr2 | 29443570 | 29443703 | NM_004304 |
| ALK | Ex24 | chr2 | 29436848 | 29436949 | NM_004304 |
| ALK | Ex25 | chr2 | 29432650 | 29432746 | NM_004304 |
| ALK | Ex26 | chr2 | 29430035 | 29430140 | NM_004304 |
| ALK | Ex27 | chr2 | 29420406 | 29420544 | NM_004304 |
| ALK | Ex28 | chr2 | 29419634 | 29419728 | NM_004304 |
| ALK | Ex29 | chr2 | 29416088 | 29416790 | NM_004304 |
| APC | Ex2 | chr5 | 112090586 | 112090724 | NM_000038 |
| APC | Ex3 | chr5 | 112102021 | 112102109 | NM_000038 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|------|------|------------|---------------|--------------|----------------------|
| APC | Ex4 | chr5 | 112102884 | 112103089 | NM_000038 |
| APC | Ex5 | chr5 | 112111324 | 112111436 | NM_000038 |
| APC | Ex6 | chr5 | 112116485 | 112116602 | NM_000038 |
| APC | Ex7 | chr5 | 112128141 | 112128228 | NM_000038 |
| APC | Ex8 | chr5 | 112136974 | 112137082 | NM_000038 |
| APC | Ex9 | chr5 | 112151190 | 112151292 | NM_000038 |
| APC | Ex10 | chr5 | 112154661 | 112155043 | NM_000038 |
| APC | Ex11 | chr5 | 112157591 | 112157690 | NM_000038 |
| APC | Ex12 | chr5 | 112162803 | 112162946 | NM_000038 |
| APC | Ex13 | chr5 | 112163624 | 112163705 | NM_000038 |
| APC | Ex14 | chr5 | 112164551 | 112164671 | NM_000038 |
| APC | Ex15 | chr5 | 112170646 | 112170864 | NM_000038 |
| APC | Ex16 | chr5 | 112173248 | 112179825 | NM_000038 |
| BAP1 | Ex1 | chr3 | 52443856 | 52443896 | NM_004656 |
| BAP1 | Ex2 | chr3 | 52443728 | 52443761 | NM_004656 |
| BAP1 | Ex3 | chr3 | 52443568 | 52443626 | NM_004656 |
| BAP1 | Ex4 | chr3 | 52442488 | 52442624 | NM_004656 |
| BAP1 | Ex5 | chr3 | 52441972 | 52442095 | NM_004656 |
| BAP1 | Ex6 | chr3 | 52441413 | 52441478 | NM_004656 |
| BAP1 | Ex7 | chr3 | 52441188 | 52441334 | NM_004656 |
| BAP1 | Ex8 | chr3 | 52440843 | 52440925 | NM_004656 |
| BAP1 | Ex9 | chr3 | 52440267 | 52440394 | NM_004656 |
| BAP1 | Ex10 | chr3 | 52439779 | 52439930 | NM_004656 |
| BAP1 | Ex11 | chr3 | 52439124 | 52439312 | NM_004656 |
| BAP1 | Ex12 | chr3 | 52438467 | 52438604 | NM_004656 |
| BAP1 | Ex13 | chr3 | 52437430 | 52437912 | NM_004656 |
| BAP1 | Ex14 | chr3 | 52437152 | 52437316 | NM_004656 |
| BAP1 | Ex15 | chr3 | 52436793 | 52436889 | NM_004656 |
| BAP1 | Ex16 | chr3 | 52436616 | 52436692 | NM_004656 |
| BAP1 | Ex17 | chr3 | 52436302 | 52436439 | NM_004656 |
| BCOR | Ex2 | chr3 | 39937095 | 39937184 | NM_001123385 |
| BCOR | Ex3 | chr3 | 39935705 | 39935787 | NM_001123385 |
| BCOR | Ex4 | chr3 | 39931600 | 39934435 | NM_001123385 |
| BCOR | Ex5 | chr3 | 39930888 | 39930945 | NM_001123385 |
| BCOR | Ex6 | chr3 | 39930224 | 39930414 | NM_001123385 |
| BCOR | Ex7 | chr3 | 39923587 | 39923854 | NM_001123385 |
| BCOR | Ex8 | chr3 | 39922859 | 39923207 | NM_001123385 |
| BCOR | Ex9 | chr3 | 39921997 | 39922326 | NM_001123385 |
| BCOR | Ex10 | chr3 | 39921390 | 39921648 | NM_001123385 |
| BCOR | Ex11 | chr3 | 39916406 | 39916576 | NM_001123385 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|---------------|-------------|-------------------|----------------------|---------------------|-----------------------------|
| <i>BCOR</i> | Ex12 | chr3 | 39914619 | 39914768 | NM_001123385 |
| <i>BCOR</i> | Ex13 | chr3 | 39913507 | 39913588 | NM_001123385 |
| <i>BCOR</i> | Ex14 | chr3 | 39913137 | 39913297 | NM_001123385 |
| <i>BCOR</i> | Ex15 | chr3 | 39911360 | 39911655 | NM_001123385 |
| <i>BRAF</i> | Ex1 | chr7 | 140624364 | 140624505 | NM_004333 |
| <i>BRAF</i> | Ex2 | chr7 | 140549909 | 140550014 | NM_004333 |
| <i>BRAF</i> | Ex3 | chr7 | 140534407 | 140534674 | NM_004333 |
| <i>BRAF</i> | Ex4 | chr7 | 140508690 | 140508797 | NM_004333 |
| <i>BRAF</i> | Ex5 | chr7 | 140507758 | 140507864 | NM_004333 |
| <i>BRAF</i> | Ex6 | chr7 | 140501210 | 140501362 | NM_004333 |
| <i>BRAF</i> | Ex7 | chr7 | 140500160 | 140500283 | NM_004333 |
| <i>BRAF</i> | Ex8 | chr7 | 140494106 | 140494269 | NM_004333 |
| <i>BRAF</i> | Ex9 | chr7 | 140487346 | 140487386 | NM_004333 |
| <i>BRAF</i> | Ex10 | chr7 | 140482819 | 140482959 | NM_004333 |
| <i>BRAF</i> | Ex11 | chr7 | 140481374 | 140481495 | NM_004333 |
| <i>BRAF</i> | Ex12 | chr7 | 140477789 | 140477877 | NM_004333 |
| <i>BRAF</i> | Ex13 | chr7 | 140476710 | 140476890 | NM_004333 |
| <i>BRAF</i> | Ex14 | chr7 | 140453985 | 140454035 | NM_004333 |
| <i>BRAF</i> | Ex15 | chr7 | 140453073 | 140453195 | NM_004333 |
| <i>BRAF</i> | Ex16 | chr7 | 140449085 | 140449220 | NM_004333 |
| <i>BRAF</i> | Ex17 | chr7 | 140439610 | 140439748 | NM_004333 |
| <i>BRAF</i> | Ex18 | chr7 | 140434395 | 140434572 | NM_004333 |
| <i>CDKN2A</i> | Ex1 | chr9 | 21974675 | 21974828 | NM_000077 |
| <i>CDKN2A</i> | Ex2 | chr9 | 21970899 | 21971209 | NM_000077 |
| <i>CDKN2A</i> | Ex3 | chr9 | 21968226 | 21968243 | NM_000077 |
| <i>CTNNB1</i> | Ex2 | chr3 | 41265558 | 41265574 | NM_001904 |
| <i>CTNNB1</i> | Ex3 | chr3 | 41266015 | 41266246 | NM_001904 |
| <i>CTNNB1</i> | Ex4 | chr3 | 41266443 | 41266700 | NM_001904 |
| <i>CTNNB1</i> | Ex5 | chr3 | 41266823 | 41267065 | NM_001904 |
| <i>CTNNB1</i> | Ex6 | chr3 | 41267149 | 41267354 | NM_001904 |
| <i>CTNNB1</i> | Ex7 | chr3 | 41268697 | 41268845 | NM_001904 |
| <i>CTNNB1</i> | Ex8 | chr3 | 41274830 | 41274937 | NM_001904 |
| <i>CTNNB1</i> | Ex9 | chr3 | 41275018 | 41275360 | NM_001904 |
| <i>CTNNB1</i> | Ex10 | chr3 | 41275628 | 41275790 | NM_001904 |
| <i>CTNNB1</i> | Ex11 | chr3 | 41277213 | 41277336 | NM_001904 |
| <i>CTNNB1</i> | Ex12 | chr3 | 41277838 | 41277992 | NM_001904 |
| <i>CTNNB1</i> | Ex13 | chr3 | 41278077 | 41278202 | NM_001904 |
| <i>CTNNB1</i> | Ex14 | chr3 | 41279505 | 41279569 | NM_001904 |
| <i>CTNNB1</i> | Ex15 | chr3 | 41280623 | 41280835 | NM_001904 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|---------------|-------------|-------------------|----------------------|---------------------|-----------------------------|
| <i>DICER1</i> | Ex2 | chr14 | 95599650 | 95599797 | NM_177438 |
| <i>DICER1</i> | Ex3 | chr14 | 95598850 | 95599016 | NM_177438 |
| <i>DICER1</i> | Ex4 | chr14 | 95597844 | 95597978 | NM_177438 |
| <i>DICER1</i> | Ex5 | chr14 | 95596393 | 95596531 | NM_177438 |
| <i>DICER1</i> | Ex6 | chr14 | 95595807 | 95595971 | NM_177438 |
| <i>DICER1</i> | Ex7 | chr14 | 95592915 | 95593087 | NM_177438 |
| <i>DICER1</i> | Ex8 | chr14 | 95590531 | 95591007 | NM_177438 |
| <i>DICER1</i> | Ex9 | chr14 | 95583957 | 95584093 | NM_177438 |
| <i>DICER1</i> | Ex10 | chr14 | 95582788 | 95583034 | NM_177438 |
| <i>DICER1</i> | Ex11 | chr14 | 95582002 | 95582160 | NM_177438 |
| <i>DICER1</i> | Ex12 | chr14 | 95579427 | 95579563 | NM_177438 |
| <i>DICER1</i> | Ex13 | chr14 | 95578507 | 95578586 | NM_177438 |
| <i>DICER1</i> | Ex14 | chr14 | 95577652 | 95577795 | NM_177438 |
| <i>DICER1</i> | Ex15 | chr14 | 95574659 | 95574842 | NM_177438 |
| <i>DICER1</i> | Ex16 | chr14 | 95574215 | 95574432 | NM_177438 |
| <i>DICER1</i> | Ex17 | chr14 | 95573943 | 95574100 | NM_177438 |
| <i>DICER1</i> | Ex18 | chr14 | 95572376 | 95572562 | NM_177438 |
| <i>DICER1</i> | Ex19 | chr14 | 95572013 | 95572122 | NM_177438 |
| <i>DICER1</i> | Ex20 | chr14 | 95571406 | 95571585 | NM_177438 |
| <i>DICER1</i> | Ex21 | chr14 | 95569681 | 95570465 | NM_177438 |
| <i>DICER1</i> | Ex22 | chr14 | 95566115 | 95566274 | NM_177438 |
| <i>DICER1</i> | Ex23 | chr14 | 95562160 | 95563052 | NM_177438 |
| <i>DICER1</i> | Ex24 | chr14 | 95560223 | 95560495 | NM_177438 |
| <i>DICER1</i> | Ex25 | chr14 | 95557538 | 95557704 | NM_177438 |
| <i>DICER1</i> | Ex26 | chr14 | 95557369 | 95557448 | NM_177438 |
| <i>DICER1</i> | Ex27 | chr14 | 95556833 | 95557002 | NM_177438 |
| <i>EED</i> | Ex1 | chr11 | 85956270 | 85956387 | NM_003797 |
| <i>EED</i> | Ex2 | chr11 | 85961336 | 85961492 | NM_003797 |
| <i>EED</i> | Ex3 | chr11 | 85963188 | 85963284 | NM_003797 |
| <i>EED</i> | Ex4 | chr11 | 85966262 | 85966331 | NM_003797 |
| <i>EED</i> | Ex5 | chr11 | 85967427 | 85967556 | NM_003797 |
| <i>EED</i> | Ex6 | chr11 | 85968555 | 85968640 | NM_003797 |
| <i>EED</i> | Ex7 | chr11 | 85975212 | 85975307 | NM_003797 |
| <i>EED</i> | Ex8 | chr11 | 85977123 | 85977260 | NM_003797 |
| <i>EED</i> | Ex9 | chr11 | 85979496 | 85979605 | NM_003797 |
| <i>EED</i> | Ex10 | chr11 | 85988020 | 85988182 | NM_003797 |
| <i>EED</i> | Ex11 | chr11 | 85988958 | 85989035 | NM_003797 |
| <i>EED</i> | Ex12 | chr11 | 85989439 | 85989569 | NM_003797 |
| <i>EGFR</i> | Ex1 | chr7 | 55086969 | 55087060 | NM_005228 |
| <i>EGFR</i> | Ex2 | chr7 | 55209977 | 55210132 | NM_005228 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|-------|------|------------|---------------|--------------|----------------------|
| EGFR | Ex3 | chr7 | 55210996 | 55211183 | NM_005228 |
| EGFR | Ex4 | chr7 | 55214297 | 55214435 | NM_005228 |
| EGFR | Ex5 | chr7 | 55218985 | 55219057 | NM_005228 |
| EGFR | Ex6 | chr7 | 55220237 | 55220359 | NM_005228 |
| EGFR | Ex7 | chr7 | 55221702 | 55221847 | NM_005228 |
| EGFR | Ex8 | chr7 | 55223521 | 55223641 | NM_005228 |
| EGFR | Ex9 | chr7 | 55224224 | 55224354 | NM_005228 |
| EGFR | Ex10 | chr7 | 55224450 | 55224527 | NM_005228 |
| EGFR | Ex11 | chr7 | 55225354 | 55225448 | NM_005228 |
| EGFR | Ex12 | chr7 | 55227830 | 55228033 | NM_005228 |
| EGFR | Ex13 | chr7 | 55229190 | 55229326 | NM_005228 |
| EGFR | Ex14 | chr7 | 55231424 | 55231518 | NM_005228 |
| EGFR | Ex15 | chr7 | 55232971 | 55233132 | NM_005228 |
| EGFR | Ex16 | chr7 | 55238866 | 55238908 | NM_005228 |
| EGFR | Ex17 | chr7 | 55240674 | 55240819 | NM_005228 |
| EGFR | Ex18 | chr7 | 55241612 | 55241738 | NM_005228 |
| EGFR | Ex19 | chr7 | 55242413 | 55242515 | NM_005228 |
| EGFR | Ex20 | chr7 | 55248984 | 55249173 | NM_005228 |
| EGFR | Ex21 | chr7 | 55259410 | 55259569 | NM_005228 |
| EGFR | Ex22 | chr7 | 55260457 | 55260536 | NM_005228 |
| EGFR | Ex23 | chr7 | 55266408 | 55266558 | NM_005228 |
| EGFR | Ex24 | chr7 | 55268007 | 55268108 | NM_005228 |
| EGFR | Ex25 | chr7 | 55268879 | 55269050 | NM_005228 |
| EGFR | Ex26 | chr7 | 55269426 | 55269477 | NM_005228 |
| EGFR | Ex27 | chr7 | 55270208 | 55270320 | NM_005228 |
| EGFR | Ex28 | chr7 | 55272947 | 55273312 | NM_005228 |
| FGFR4 | Ex2 | chr5 | 176516602 | 176516696 | NM_213647 |
| FGFR4 | Ex3 | chr5 | 176517389 | 176517656 | NM_213647 |
| FGFR4 | Ex4 | chr5 | 176517744 | 176517828 | NM_213647 |
| FGFR4 | Ex5 | chr5 | 176517937 | 176518107 | NM_213647 |
| FGFR4 | Ex6 | chr5 | 176518684 | 176518811 | NM_213647 |
| FGFR4 | Ex7 | chr5 | 176519320 | 176519514 | NM_213647 |
| FGFR4 | Ex8 | chr5 | 176519645 | 176519787 | NM_213647 |
| FGFR4 | Ex9 | chr5 | 176520137 | 176520334 | NM_213647 |
| FGFR4 | Ex10 | chr5 | 176520405 | 176520554 | NM_213647 |
| FGFR4 | Ex11 | chr5 | 176520653 | 176520778 | NM_213647 |
| FGFR4 | Ex12 | chr5 | 176522329 | 176522443 | NM_213647 |
| FGFR4 | Ex13 | chr5 | 176522532 | 176522726 | NM_213647 |
| FGFR4 | Ex14 | chr5 | 176523056 | 176523182 | NM_213647 |
| FGFR4 | Ex15 | chr5 | 176523286 | 176523360 | NM_213647 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|--------------|-------------|-------------------|----------------------|---------------------|-----------------------------|
| <i>FGFR4</i> | Ex16 | chr5 | 176523603 | 176523744 | NM_213647 |
| <i>FGFR4</i> | Ex17 | chr5 | 176524291 | 176524400 | NM_213647 |
| <i>FGFR4</i> | Ex18 | chr5 | 176524526 | 176524679 | NM_213647 |
| <i>GNA11</i> | Ex1 | chr19 | 3094648 | 3094787 | NM_002067 |
| <i>GNA11</i> | Ex2 | chr19 | 3110145 | 3110333 | NM_002067 |
| <i>GNA11</i> | Ex3 | chr19 | 3113326 | 3113484 | NM_002067 |
| <i>GNA11</i> | Ex4 | chr19 | 3114940 | 3115072 | NM_002067 |
| <i>GNA11</i> | Ex5 | chr19 | 3118920 | 3119053 | NM_002067 |
| <i>GNA11</i> | Ex6 | chr19 | 3119202 | 3119359 | NM_002067 |
| <i>GNA11</i> | Ex7 | chr19 | 3120985 | 3121179 | NM_002067 |
| <i>GNA14</i> | Ex7 | chr9 | 80038893 | 80039087 | NM_004297 |
| <i>GNA14</i> | Ex6 | chr9 | 80040476 | 80040633 | NM_004297 |
| <i>GNA14</i> | Ex5 | chr9 | 80043821 | 80043954 | NM_004297 |
| <i>GNA14</i> | Ex4 | chr9 | 80046235 | 80046367 | NM_004297 |
| <i>GNA14</i> | Ex3 | chr9 | 80049282 | 80049440 | NM_004297 |
| <i>GNA14</i> | Ex2 | chr9 | 80143983 | 80144171 | NM_004297 |
| <i>GNA14</i> | Ex1 | chr9 | 80262584 | 80262711 | NM_004297 |
| <i>GNAQ</i> | Ex7 | chr9 | 80336237 | 80336431 | NM_002072 |
| <i>GNAQ</i> | Ex6 | chr9 | 80343428 | 80343585 | NM_002072 |
| <i>GNAQ</i> | Ex5 | chr9 | 80409377 | 80409510 | NM_002072 |
| <i>GNAQ</i> | Ex4 | chr9 | 80412434 | 80412566 | NM_002072 |
| <i>GNAQ</i> | Ex3 | chr9 | 80430530 | 80430688 | NM_002072 |
| <i>GNAQ</i> | Ex2 | chr9 | 80537075 | 80537263 | NM_002072 |
| <i>GNAQ</i> | Ex1 | chr9 | 80646014 | 80646153 | NM_002072 |
| <i>GNAS</i> | Ex1 | chr20 | 57466780 | 57466922 | NM_000516 |
| <i>GNAS</i> | Ex2 | chr20 | 57470665 | 57470741 | NM_000516 |
| <i>GNAS</i> | Ex3 | chr20 | 57473994 | 57474042 | NM_000516 |
| <i>GNAS</i> | Ex4 | chr20 | 57478584 | 57478642 | NM_000516 |
| <i>GNAS</i> | Ex5 | chr20 | 57478725 | 57478848 | NM_000516 |
| <i>GNAS</i> | Ex6 | chr20 | 57480436 | 57480537 | NM_000516 |
| <i>GNAS</i> | Ex7 | chr20 | 57484215 | 57484273 | NM_000516 |
| <i>GNAS</i> | Ex8 | chr20 | 57484403 | 57484480 | NM_000516 |
| <i>GNAS</i> | Ex9 | chr20 | 57484574 | 57484636 | NM_000516 |
| <i>GNAS</i> | Ex10 | chr20 | 57484737 | 57484861 | NM_000516 |
| <i>GNAS</i> | Ex11 | chr20 | 57485004 | 57485138 | NM_000516 |
| <i>GNAS</i> | Ex12 | chr20 | 57485387 | 57485458 | NM_000516 |
| <i>GNAS</i> | Ex13 | chr20 | 57485736 | 57485886 | NM_000516 |
| <i>H3-3A</i> | Ex2 | chr1 | 226252051 | 226252182 | NM_002107 |
| <i>H3-3A</i> | Ex3 | chr1 | 226253355 | 226253512 | NM_002107 |
| <i>H3-3B</i> | Ex2 | chr17 | 73775126 | 73775257 | NM_005324 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|--------------|------|------------|---------------|--------------|----------------------|
| <i>H3-3B</i> | Ex3 | chr17 | 73774889 | 73775046 | NM_005324 |
| <i>H3-3B</i> | Ex4 | chr17 | 73774674 | 73774806 | NM_005324 |
| <i>KIT</i> | Ex1 | chr4 | 55524180 | 55524250 | NM_000222 |
| <i>KIT</i> | Ex2 | chr4 | 55561676 | 55561949 | NM_000222 |
| <i>KIT</i> | Ex3 | chr4 | 55564448 | 55564733 | NM_000222 |
| <i>KIT</i> | Ex4 | chr4 | 55565794 | 55565934 | NM_000222 |
| <i>KIT</i> | Ex5 | chr4 | 55569888 | 55570060 | NM_000222 |
| <i>KIT</i> | Ex6 | chr4 | 55573262 | 55573455 | NM_000222 |
| <i>KIT</i> | Ex7 | chr4 | 55575588 | 55575707 | NM_000222 |
| <i>KIT</i> | Ex8 | chr4 | 55589748 | 55589866 | NM_000222 |
| <i>KIT</i> | Ex9 | chr4 | 55592021 | 55592218 | NM_000222 |
| <i>KIT</i> | Ex10 | chr4 | 55593382 | 55593492 | NM_000222 |
| <i>KIT</i> | Ex11 | chr4 | 55593580 | 55593710 | NM_000222 |
| <i>KIT</i> | Ex12 | chr4 | 55593987 | 55594095 | NM_000222 |
| <i>KIT</i> | Ex13 | chr4 | 55594175 | 55594289 | NM_000222 |
| <i>KIT</i> | Ex14 | chr4 | 55595499 | 55595653 | NM_000222 |
| <i>KIT</i> | Ex15 | chr4 | 55597492 | 55597587 | NM_000222 |
| <i>KIT</i> | Ex16 | chr4 | 55598035 | 55598166 | NM_000222 |
| <i>KIT</i> | Ex17 | chr4 | 55599234 | 55599360 | NM_000222 |
| <i>KIT</i> | Ex18 | chr4 | 55602662 | 55602777 | NM_000222 |
| <i>KIT</i> | Ex19 | chr4 | 55602885 | 55602988 | NM_000222 |
| <i>KIT</i> | Ex20 | chr4 | 55603339 | 55603448 | NM_000222 |
| <i>KIT</i> | Ex21 | chr4 | 55604593 | 55604725 | NM_000222 |
| <i>MDM2</i> | Ex1 | chr12 | 69202256 | 69202273 | NM_002392 |
| <i>MDM2</i> | Ex2 | chr12 | 69202986 | 69203074 | NM_002392 |
| <i>MDM2</i> | Ex3 | chr12 | 69207332 | 69207410 | NM_002392 |
| <i>MDM2</i> | Ex4 | chr12 | 69210590 | 69210727 | NM_002392 |
| <i>MDM2</i> | Ex5 | chr12 | 69214103 | 69214156 | NM_002392 |
| <i>MDM2</i> | Ex6 | chr12 | 69218141 | 69218212 | NM_002392 |
| <i>MDM2</i> | Ex7 | chr12 | 69218333 | 69218433 | NM_002392 |
| <i>MDM2</i> | Ex8 | chr12 | 69222549 | 69222713 | NM_002392 |
| <i>MDM2</i> | Ex9 | chr12 | 69229607 | 69229766 | NM_002392 |
| <i>MDM2</i> | Ex10 | chr12 | 69230450 | 69230531 | NM_002392 |
| <i>MDM2</i> | Ex11 | chr12 | 69233052 | 69233631 | NM_002392 |
| <i>MED12</i> | Ex1 | chrX | 70338603 | 70338705 | NM_005120 |
| <i>MED12</i> | Ex2 | chrX | 70339221 | 70339329 | NM_005120 |
| <i>MED12</i> | Ex3 | chrX | 70339534 | 70339729 | NM_005120 |
| <i>MED12</i> | Ex4 | chrX | 70339862 | 70340022 | NM_005120 |
| <i>MED12</i> | Ex5 | chrX | 70340819 | 70341004 | NM_005120 |
| <i>MED12</i> | Ex6 | chrX | 70341175 | 70341289 | NM_005120 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|-------|------|------------|---------------|--------------|----------------------|
| MED12 | Ex7 | chrX | 70341410 | 70341668 | NM_005120 |
| MED12 | Ex8 | chrX | 70342048 | 70342198 | NM_005120 |
| MED12 | Ex9 | chrX | 70342356 | 70342459 | NM_005120 |
| MED12 | Ex10 | chrX | 70342586 | 70342726 | NM_005120 |
| MED12 | Ex11 | chrX | 70342943 | 70343078 | NM_005120 |
| MED12 | Ex12 | chrX | 70343442 | 70343572 | NM_005120 |
| MED12 | Ex13 | chrX | 70344007 | 70344240 | NM_005120 |
| MED12 | Ex14 | chrX | 70344612 | 70344696 | NM_005120 |
| MED12 | Ex15 | chrX | 70344824 | 70344998 | NM_005120 |
| MED12 | Ex16 | chrX | 70345199 | 70345347 | NM_005120 |
| MED12 | Ex17 | chrX | 70345511 | 70345565 | NM_005120 |
| MED12 | Ex18 | chrX | 70345884 | 70346006 | NM_005120 |
| MED12 | Ex19 | chrX | 70346189 | 70346336 | NM_005120 |
| MED12 | Ex20 | chrX | 70346817 | 70346984 | NM_005120 |
| MED12 | Ex21 | chrX | 70347184 | 70347319 | NM_005120 |
| MED12 | Ex22 | chrX | 70347741 | 70347972 | NM_005120 |
| MED12 | Ex23 | chrX | 70348144 | 70348292 | NM_005120 |
| MED12 | Ex24 | chrX | 70348446 | 70348570 | NM_005120 |
| MED12 | Ex25 | chrX | 70348962 | 70349067 | NM_005120 |
| MED12 | Ex26 | chrX | 70349164 | 70349281 | NM_005120 |
| MED12 | Ex27 | chrX | 70349528 | 70349707 | NM_005120 |
| MED12 | Ex28 | chrX | 70349883 | 70350066 | NM_005120 |
| MED12 | Ex29 | chrX | 70351398 | 70351473 | NM_005120 |
| MED12 | Ex30 | chrX | 70351921 | 70352058 | NM_005120 |
| MED12 | Ex31 | chrX | 70352225 | 70352390 | NM_005120 |
| MED12 | Ex32 | chrX | 70352693 | 70352808 | NM_005120 |
| MED12 | Ex33 | chrX | 70352971 | 70353064 | NM_005120 |
| MED12 | Ex34 | chrX | 70354205 | 70354318 | NM_005120 |
| MED12 | Ex35 | chrX | 70354561 | 70354700 | NM_005120 |
| MED12 | Ex36 | chrX | 70354940 | 70355105 | NM_005120 |
| MED12 | Ex37 | chrX | 70356129 | 70356507 | NM_005120 |
| MED12 | Ex38 | chrX | 70356727 | 70356881 | NM_005120 |
| MED12 | Ex39 | chrX | 70357035 | 70357235 | NM_005120 |
| MED12 | Ex40 | chrX | 70357406 | 70357487 | NM_005120 |
| MED12 | Ex41 | chrX | 70357574 | 70357795 | NM_005120 |
| MED12 | Ex42 | chrX | 70360483 | 70360584 | NM_005120 |
| MED12 | Ex42 | chrX | 70360703 | 70360709 | NM_005120 |
| MED12 | Ex44 | chrX | 70361731 | 70361816 | NM_005120 |
| MED12 | Ex45 | chrX | 70362023 | 70362070 | NM_005120 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|--------------|------|------------|---------------|--------------|----------------------|
| <i>MYOD1</i> | Ex1 | chr11 | 17741328 | 17741961 | NM_002478 |
| <i>MYOD1</i> | Ex2 | chr11 | 17742447 | 17742529 | NM_002478 |
| <i>MYOD1</i> | Ex3 | chr11 | 17742800 | 17743057 | NM_002478 |
| <i>NF1</i> | Ex1 | chr17 | 29422326 | 29422389 | NM_001042492 |
| <i>NF1</i> | Ex2 | chr17 | 29482999 | 29483146 | NM_001042492 |
| <i>NF1</i> | Ex3 | chr17 | 29486026 | 29486113 | NM_001042492 |
| <i>NF1</i> | Ex4 | chr17 | 29490202 | 29490396 | NM_001042492 |
| <i>NF1</i> | Ex5 | chr17 | 29496907 | 29497017 | NM_001042492 |
| <i>NF1</i> | Ex6 | chr17 | 29508438 | 29508509 | NM_001042492 |
| <i>NF1</i> | Ex7 | chr17 | 29508726 | 29508805 | NM_001042492 |
| <i>NF1</i> | Ex8 | chr17 | 29509524 | 29509685 | NM_001042492 |
| <i>NF1</i> | Ex9 | chr17 | 29527438 | 29527615 | NM_001042492 |
| <i>NF1</i> | Ex10 | chr17 | 29528053 | 29528179 | NM_001042492 |
| <i>NF1</i> | Ex11 | chr17 | 29528427 | 29528505 | NM_001042492 |
| <i>NF1</i> | Ex12 | chr17 | 29533256 | 29533391 | NM_001042492 |
| <i>NF1</i> | Ex13 | chr17 | 29541467 | 29541605 | NM_001042492 |
| <i>NF1</i> | Ex14 | chr17 | 29546021 | 29546138 | NM_001042492 |
| <i>NF1</i> | Ex15 | chr17 | 29548866 | 29548949 | NM_001042492 |
| <i>NF1</i> | Ex16 | chr17 | 29550460 | 29550587 | NM_001042492 |
| <i>NF1</i> | Ex17 | chr17 | 29552111 | 29552270 | NM_001042492 |
| <i>NF1</i> | Ex18 | chr17 | 29553451 | 29553704 | NM_001042492 |
| <i>NF1</i> | Ex19 | chr17 | 29554234 | 29554311 | NM_001042492 |
| <i>NF1</i> | Ex20 | chr17 | 29554539 | 29554626 | NM_001042492 |
| <i>NF1</i> | Ex21 | chr17 | 29556041 | 29556485 | NM_001042492 |
| <i>NF1</i> | Ex22 | chr17 | 29556851 | 29556994 | NM_001042492 |
| <i>NF1</i> | Ex23 | chr17 | 29557276 | 29557402 | NM_001042492 |
| <i>NF1</i> | Ex24 | chr17 | 29557858 | 29557945 | NM_001042492 |
| <i>NF1</i> | Ex25 | chr17 | 29559089 | 29559209 | NM_001042492 |
| <i>NF1</i> | Ex26 | chr17 | 29559716 | 29559901 | NM_001042492 |
| <i>NF1</i> | Ex27 | chr17 | 29560018 | 29560233 | NM_001042492 |
| <i>NF1</i> | Ex28 | chr17 | 29562627 | 29562792 | NM_001042492 |
| <i>NF1</i> | Ex29 | chr17 | 29562934 | 29563041 | NM_001042492 |
| <i>NF1</i> | Ex30 | chr17 | 29576000 | 29576139 | NM_001042492 |
| <i>NF1</i> | Ex31 | chr17 | 29579954 | 29580020 | NM_001042492 |
| <i>NF1</i> | Ex32 | chr17 | 29585360 | 29585522 | NM_001042492 |
| <i>NF1</i> | Ex33 | chr17 | 29586048 | 29586149 | NM_001042492 |
| <i>NF1</i> | Ex34 | chr17 | 29587385 | 29587535 | NM_001042492 |
| <i>NF1</i> | Ex35 | chr17 | 29588727 | 29588877 | NM_001042492 |
| <i>NF1</i> | Ex36 | chr17 | 29592245 | 29592359 | NM_001042492 |
| <i>NF1</i> | Ex37 | chr17 | 29652836 | 29653272 | NM_001042492 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|---------------|------|------------|---------------|--------------|----------------------|
| <i>NF1</i> | Ex38 | chr17 | 29654515 | 29654859 | NM_001042492 |
| <i>NF1</i> | Ex39 | chr17 | 29657312 | 29657518 | NM_001042492 |
| <i>NF1</i> | Ex40 | chr17 | 29661854 | 29662051 | NM_001042492 |
| <i>NF1</i> | Ex41 | chr17 | 29663349 | 29663493 | NM_001042492 |
| <i>NF1</i> | Ex42 | chr17 | 29663651 | 29663934 | NM_001042492 |
| <i>NF1</i> | Ex43 | chr17 | 29664384 | 29664602 | NM_001042492 |
| <i>NF1</i> | Ex44 | chr17 | 29664835 | 29664900 | NM_001042492 |
| <i>NF1</i> | Ex45 | chr17 | 29665041 | 29665159 | NM_001042492 |
| <i>NF1</i> | Ex46 | chr17 | 29665720 | 29665825 | NM_001042492 |
| <i>NF1</i> | Ex47 | chr17 | 29667521 | 29667665 | NM_001042492 |
| <i>NF1</i> | Ex48 | chr17 | 29670025 | 29670155 | NM_001042492 |
| <i>NF1</i> | Ex49 | chr17 | 29676136 | 29676271 | NM_001042492 |
| <i>NF1</i> | Ex50 | chr17 | 29677199 | 29677338 | NM_001042492 |
| <i>NF1</i> | Ex51 | chr17 | 29679273 | 29679434 | NM_001042492 |
| <i>NF1</i> | Ex52 | chr17 | 29683476 | 29683602 | NM_001042492 |
| <i>NF1</i> | Ex53 | chr17 | 29683976 | 29684110 | NM_001042492 |
| <i>NF1</i> | Ex54 | chr17 | 29684285 | 29684389 | NM_001042492 |
| <i>NF1</i> | Ex55 | chr17 | 29685496 | 29685642 | NM_001042492 |
| <i>NF1</i> | Ex56 | chr17 | 29685985 | 29686035 | NM_001042492 |
| <i>NF1</i> | Ex57 | chr17 | 29687503 | 29687723 | NM_001042492 |
| <i>NF1</i> | Ex58 | chr17 | 29701029 | 29701175 | NM_001042492 |
| <i>PDGFRA</i> | Ex2 | chr4 | 55124934 | 55124986 | NM_006206 |
| <i>PDGFRA</i> | Ex3 | chr4 | 55127260 | 55127581 | NM_006206 |
| <i>PDGFRA</i> | Ex4 | chr4 | 55129832 | 55130096 | NM_006206 |
| <i>PDGFRA</i> | Ex5 | chr4 | 55131084 | 55131218 | NM_006206 |
| <i>PDGFRA</i> | Ex6 | chr4 | 55133454 | 55133629 | NM_006206 |
| <i>PDGFRA</i> | Ex7 | chr4 | 55133717 | 55133910 | NM_006206 |
| <i>PDGFRA</i> | Ex8 | chr4 | 55136798 | 55136917 | NM_006206 |
| <i>PDGFRA</i> | Ex9 | chr4 | 55138559 | 55138689 | NM_006206 |
| <i>PDGFRA</i> | Ex10 | chr4 | 55139702 | 55139899 | NM_006206 |
| <i>PDGFRA</i> | Ex11 | chr4 | 55140696 | 55140794 | NM_006206 |
| <i>PDGFRA</i> | Ex12 | chr4 | 55141006 | 55141142 | NM_006206 |
| <i>PDGFRA</i> | Ex13 | chr4 | 55143553 | 55143661 | NM_006206 |
| <i>PDGFRA</i> | Ex14 | chr4 | 55144061 | 55144175 | NM_006206 |
| <i>PDGFRA</i> | Ex15 | chr4 | 55144527 | 55144684 | NM_006206 |
| <i>PDGFRA</i> | Ex16 | chr4 | 55146481 | 55146651 | NM_006206 |
| <i>PDGFRA</i> | Ex17 | chr4 | 55151536 | 55151655 | NM_006206 |
| <i>PDGFRA</i> | Ex18 | chr4 | 55152006 | 55152132 | NM_006206 |
| <i>PDGFRA</i> | Ex19 | chr4 | 55153595 | 55153710 | NM_006206 |
| <i>PDGFRA</i> | Ex20 | chr4 | 55154964 | 55155067 | NM_006206 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|---------------|------|------------|---------------|--------------|----------------------|
| <i>PDGFRA</i> | Ex21 | chr4 | 55155174 | 55155283 | NM_006206 |
| <i>PDGFRA</i> | Ex22 | chr4 | 55156478 | 55156723 | NM_006206 |
| <i>PDGFRA</i> | Ex23 | chr4 | 55161290 | 55161441 | NM_006206 |
| <i>PDGFRB</i> | Ex2 | chr5 | 149516569 | 149516612 | NM_002609 |
| <i>PDGFRB</i> | Ex3 | chr5 | 149515116 | 149515443 | NM_002609 |
| <i>PDGFRB</i> | Ex4 | chr5 | 149514311 | 149514581 | NM_002609 |
| <i>PDGFRB</i> | Ex5 | chr5 | 149513442 | 149513573 | NM_002609 |
| <i>PDGFRB</i> | Ex6 | chr5 | 149513147 | 149513325 | NM_002609 |
| <i>PDGFRB</i> | Ex7 | chr5 | 149512311 | 149512507 | NM_002609 |
| <i>PDGFRB</i> | Ex8 | chr5 | 149511540 | 149511659 | NM_002609 |
| <i>PDGFRB</i> | Ex9 | chr5 | 149510100 | 149510227 | NM_002609 |
| <i>PDGFRB</i> | Ex10 | chr5 | 149509318 | 149509533 | NM_002609 |
| <i>PDGFRB</i> | Ex11 | chr5 | 149506081 | 149506179 | NM_002609 |
| <i>PDGFRB</i> | Ex12 | chr5 | 149505006 | 149505142 | NM_002609 |
| <i>PDGFRB</i> | Ex13 | chr5 | 149504288 | 149504396 | NM_002609 |
| <i>PDGFRB</i> | Ex14 | chr5 | 149503811 | 149503925 | NM_002609 |
| <i>PDGFRB</i> | Ex15 | chr5 | 149502603 | 149502766 | NM_002609 |
| <i>PDGFRB</i> | Ex16 | chr5 | 149501441 | 149501605 | NM_002609 |
| <i>PDGFRB</i> | Ex17 | chr5 | 149500765 | 149500887 | NM_002609 |
| <i>PDGFRB</i> | Ex18 | chr5 | 149500449 | 149500575 | NM_002609 |
| <i>PDGFRB</i> | Ex19 | chr5 | 149499573 | 149499688 | NM_002609 |
| <i>PDGFRB</i> | Ex20 | chr5 | 149499028 | 149499131 | NM_002609 |
| <i>PDGFRB</i> | Ex21 | chr5 | 149498308 | 149498417 | NM_002609 |
| <i>PDGFRB</i> | Ex22 | chr5 | 149497179 | 149497415 | NM_002609 |
| <i>PDGFRB</i> | Ex23 | chr5 | 149495324 | 149495511 | NM_002609 |
| <i>PTPRD</i> | Ex12 | chr9 | 8733778 | 8733845 | NM_002839 |
| <i>PTPRD</i> | Ex13 | chr9 | 8636697 | 8636846 | NM_002839 |
| <i>PTPRD</i> | Ex14 | chr9 | 8633315 | 8633460 | NM_002839 |
| <i>PTPRD</i> | Ex15 | chr9 | 8528589 | 8528781 | NM_002839 |
| <i>PTPRD</i> | Ex16 | chr9 | 8527343 | 8527355 | NM_002839 |
| <i>PTPRD</i> | Ex17 | chr9 | 8526625 | 8526646 | NM_002839 |
| <i>PTPRD</i> | Ex18 | chr9 | 8524923 | 8525037 | NM_002839 |
| <i>PTPRD</i> | Ex19 | chr9 | 8523511 | 8523526 | NM_002839 |
| <i>PTPRD</i> | Ex20 | chr9 | 8521275 | 8521548 | NM_002839 |
| <i>PTPRD</i> | Ex21 | chr9 | 8517846 | 8518431 | NM_002839 |
| <i>PTPRD</i> | Ex22 | chr9 | 8507299 | 8507436 | NM_002839 |
| <i>PTPRD</i> | Ex23 | chr9 | 8504259 | 8504407 | NM_002839 |
| <i>PTPRD</i> | Ex24 | chr9 | 8500752 | 8501061 | NM_002839 |
| <i>PTPRD</i> | Ex25 | chr9 | 8499645 | 8499842 | NM_002839 |
| <i>PTPRD</i> | Ex26 | chr9 | 8497240 | 8497270 | NM_002839 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|--------------|------|------------|---------------|--------------|----------------------|
| <i>PTPRD</i> | Ex27 | chr9 | 8492860 | 8492981 | NM_002839 |
| <i>PTPRD</i> | Ex28 | chr9 | 8485760 | 8486351 | NM_002839 |
| <i>PTPRD</i> | Ex29 | chr9 | 8485225 | 8485326 | NM_002839 |
| <i>PTPRD</i> | Ex30 | chr9 | 8484117 | 8484380 | NM_002839 |
| <i>PTPRD</i> | Ex31 | chr9 | 8470993 | 8471087 | NM_002839 |
| <i>PTPRD</i> | Ex32 | chr9 | 8465464 | 8465677 | NM_002839 |
| <i>PTPRD</i> | Ex33 | chr9 | 8460409 | 8460573 | NM_002839 |
| <i>PTPRD</i> | Ex34 | chr9 | 8449723 | 8449839 | NM_002839 |
| <i>PTPRD</i> | Ex35 | chr9 | 8436590 | 8436691 | NM_002839 |
| <i>PTPRD</i> | Ex36 | chr9 | 8404535 | 8404662 | NM_002839 |
| <i>PTPRD</i> | Ex37 | chr9 | 8389230 | 8389409 | NM_002839 |
| <i>PTPRD</i> | Ex38 | chr9 | 8376605 | 8376728 | NM_002839 |
| <i>PTPRD</i> | Ex39 | chr9 | 8375934 | 8376092 | NM_002839 |
| <i>PTPRD</i> | Ex40 | chr9 | 8341691 | 8341980 | NM_002839 |
| <i>PTPRD</i> | Ex41 | chr9 | 8341088 | 8341270 | NM_002839 |
| <i>PTPRD</i> | Ex42 | chr9 | 8340341 | 8340471 | NM_002839 |
| <i>PTPRD</i> | Ex43 | chr9 | 8338920 | 8339049 | NM_002839 |
| <i>PTPRD</i> | Ex44 | chr9 | 8331580 | 8331738 | NM_002839 |
| <i>PTPRD</i> | Ex45 | chr9 | 8319829 | 8319968 | NM_002839 |
| <i>PTPRD</i> | Ex46 | chr9 | 8317872 | 8317944 | NM_002839 |
| <i>ROS1</i> | Ex1 | chr6 | 117746695 | 117746821 | NM_002944 |
| <i>ROS1</i> | Ex2 | chr6 | 117739623 | 117739671 | NM_002944 |
| <i>ROS1</i> | Ex3 | chr6 | 117737419 | 117737482 | NM_002944 |
| <i>ROS1</i> | Ex4 | chr6 | 117730743 | 117730807 | NM_002944 |
| <i>ROS1</i> | Ex5 | chr6 | 117725441 | 117725593 | NM_002944 |
| <i>ROS1</i> | Ex6 | chr6 | 117724300 | 117724442 | NM_002944 |
| <i>ROS1</i> | Ex7 | chr6 | 117718076 | 117718281 | NM_002944 |
| <i>ROS1</i> | Ex8 | chr6 | 117717349 | 117717429 | NM_002944 |
| <i>ROS1</i> | Ex9 | chr6 | 117715777 | 117715903 | NM_002944 |
| <i>ROS1</i> | Ex10 | chr6 | 117715323 | 117715511 | NM_002944 |
| <i>ROS1</i> | Ex11 | chr6 | 117714385 | 117714486 | NM_002944 |
| <i>ROS1</i> | Ex12 | chr6 | 117710511 | 117711011 | NM_002944 |
| <i>ROS1</i> | Ex13 | chr6 | 117708941 | 117709199 | NM_002944 |
| <i>ROS1</i> | Ex14 | chr6 | 117708050 | 117708164 | NM_002944 |
| <i>ROS1</i> | Ex15 | chr6 | 117706844 | 117707026 | NM_002944 |
| <i>ROS1</i> | Ex16 | chr6 | 117704478 | 117704673 | NM_002944 |
| <i>ROS1</i> | Ex17 | chr6 | 117700220 | 117700324 | NM_002944 |
| <i>ROS1</i> | Ex18 | chr6 | 117687237 | 117687455 | NM_002944 |
| <i>ROS1</i> | Ex19 | chr6 | 117686742 | 117686906 | NM_002944 |
| <i>ROS1</i> | Ex20 | chr6 | 117686221 | 117686369 | NM_002944 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|----------------|------|------------|---------------|--------------|----------------------|
| <i>ROS1</i> | Ex21 | chr6 | 117683764 | 117684030 | NM_002944 |
| <i>ROS1</i> | Ex22 | chr6 | 117681503 | 117681570 | NM_002944 |
| <i>ROS1</i> | Ex23 | chr6 | 117680970 | 117681176 | NM_002944 |
| <i>ROS1</i> | Ex24 | chr6 | 117678965 | 117679174 | NM_002944 |
| <i>ROS1</i> | Ex25 | chr6 | 117677790 | 117678080 | NM_002944 |
| <i>ROS1</i> | Ex26 | chr6 | 117674151 | 117674334 | NM_002944 |
| <i>ROS1</i> | Ex27 | chr6 | 117665221 | 117665427 | NM_002944 |
| <i>ROS1</i> | Ex28 | chr6 | 117663561 | 117663709 | NM_002944 |
| <i>ROS1</i> | Ex29 | chr6 | 117662561 | 117662797 | NM_002944 |
| <i>ROS1</i> | Ex30 | chr6 | 117662296 | 117662476 | NM_002944 |
| <i>ROS1</i> | Ex31 | chr6 | 117658333 | 117658505 | NM_002944 |
| <i>ROS1</i> | Ex32 | chr6 | 117650490 | 117650611 | NM_002944 |
| <i>ROS1</i> | Ex33 | chr6 | 117647385 | 117647579 | NM_002944 |
| <i>ROS1</i> | Ex34 | chr6 | 117645493 | 117645580 | NM_002944 |
| <i>ROS1</i> | Ex35 | chr6 | 117642420 | 117642559 | NM_002944 |
| <i>ROS1</i> | Ex36 | chr6 | 117641029 | 117641195 | NM_002944 |
| <i>ROS1</i> | Ex37 | chr6 | 117639349 | 117639417 | NM_002944 |
| <i>ROS1</i> | Ex38 | chr6 | 117638304 | 117638437 | NM_002944 |
| <i>ROS1</i> | Ex39 | chr6 | 117632181 | 117632282 | NM_002944 |
| <i>ROS1</i> | Ex40 | chr6 | 117631242 | 117631446 | NM_002944 |
| <i>ROS1</i> | Ex41 | chr6 | 117629955 | 117630093 | NM_002944 |
| <i>ROS1</i> | Ex42 | chr6 | 117622135 | 117622302 | NM_002944 |
| <i>ROS1</i> | Ex43 | chr6 | 117609653 | 117609967 | NM_002944 |
| <i>SMARCB1</i> | Ex1 | chr22 | 24129355 | 24129451 | NM_003073 |
| <i>SMARCB1</i> | Ex2 | chr22 | 24133941 | 24134083 | NM_003073 |
| <i>SMARCB1</i> | Ex3 | chr22 | 24135744 | 24135877 | NM_003073 |
| <i>SMARCB1</i> | Ex4 | chr22 | 24143129 | 24143270 | NM_003073 |
| <i>SMARCB1</i> | Ex5 | chr22 | 24145480 | 24145611 | NM_003073 |
| <i>SMARCB1</i> | Ex6 | chr22 | 24158955 | 24159125 | NM_003073 |
| <i>SMARCB1</i> | Ex7 | chr22 | 24167410 | 24167604 | NM_003073 |
| <i>SMARCB1</i> | Ex8 | chr22 | 24175757 | 24175892 | NM_003073 |
| <i>SMARCB1</i> | Ex9 | chr22 | 24176326 | 24176369 | NM_003073 |
| <i>SUZ12</i> | Ex1 | chr17 | 30264264 | 30264541 | NM_015355 |
| <i>SUZ12</i> | Ex2 | chr17 | 30267303 | 30267353 | NM_015355 |
| <i>SUZ12</i> | Ex5 | chr17 | 30293164 | 30293217 | NM_015355 |
| <i>SUZ12</i> | Ex7 | chr17 | 30302499 | 30302734 | NM_015355 |
| <i>SUZ12</i> | Ex8 | chr17 | 30303538 | 30303635 | NM_015355 |
| <i>SUZ12</i> | Ex10 | chr17 | 30315337 | 30315518 | NM_015355 |
| <i>SUZ12</i> | Ex11 | chr17 | 30320259 | 30320354 | NM_015355 |
| <i>SUZ12</i> | Ex12 | chr17 | 30320882 | 30321029 | NM_015355 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|-------|----------|------------|---------------|--------------|----------------------|
| SUZ12 | Ex13 | chr17 | 30321581 | 30321742 | NM_015355 |
| SUZ12 | Ex14 | chr17 | 30322581 | 30322783 | NM_015355 |
| SUZ12 | Ex15 | chr17 | 30323815 | 30323898 | NM_015355 |
| SUZ12 | Ex16 | chr17 | 30325675 | 30326024 | NM_015355 |
| TERT | Promoter | chr5 | 1295128 | 1295350 | NM_198253 |
| TP53 | Ex2 | chr17 | 7579837 | 7579914 | NM_000546 |
| TP53 | Ex3 | chr17 | 7579698 | 7579723 | NM_000546 |
| TP53 | Ex4 | chr17 | 7579310 | 7579592 | NM_000546 |
| TP53 | Ex5 | chr17 | 7578369 | 7578556 | NM_000546 |
| TP53 | Ex6 | chr17 | 7578175 | 7578291 | NM_000546 |
| TP53 | Ex7 | chr17 | 7577497 | 7577610 | NM_000546 |
| TP53 | Ex8 | chr17 | 7577017 | 7577157 | NM_000546 |
| TP53 | Ex9 | chr17 | 7576851 | 7576928 | NM_000546 |
| TP53 | Ex10 | chr17 | 7573925 | 7574035 | NM_000546 |
| TP53 | Ex11 | chr17 | 7572925 | 7573010 | NM_000546 |
| TSC2 | Ex2 | chr16 | 2098615 | 2098756 | NM_000548 |
| TSC2 | Ex3 | chr16 | 2100399 | 2100489 | NM_000548 |
| TSC2 | Ex4 | chr16 | 2103341 | 2103455 | NM_000548 |
| TSC2 | Ex5 | chr16 | 2104295 | 2104443 | NM_000548 |
| TSC2 | Ex6 | chr16 | 2105401 | 2105522 | NM_000548 |
| TSC2 | Ex7 | chr16 | 2106195 | 2106247 | NM_000548 |
| TSC2 | Ex8 | chr16 | 2106643 | 2106772 | NM_000548 |
| TSC2 | Ex9 | chr16 | 2107104 | 2107181 | NM_000548 |
| TSC2 | Ex10 | chr16 | 2108746 | 2108876 | NM_000548 |
| TSC2 | Ex11 | chr16 | 2110669 | 2110816 | NM_000548 |
| TSC2 | Ex12 | chr16 | 2111870 | 2112011 | NM_000548 |
| TSC2 | Ex13 | chr16 | 2112496 | 2112603 | NM_000548 |
| TSC2 | Ex14 | chr16 | 2112971 | 2113056 | NM_000548 |
| TSC2 | Ex15 | chr16 | 2114271 | 2114430 | NM_000548 |
| TSC2 | Ex16 | chr16 | 2115518 | 2115638 | NM_000548 |
| TSC2 | Ex17 | chr16 | 2120455 | 2120581 | NM_000548 |
| TSC2 | Ex18 | chr16 | 2121509 | 2121619 | NM_000548 |
| TSC2 | Ex19 | chr16 | 2121783 | 2121937 | NM_000548 |
| TSC2 | Ex20 | chr16 | 2122240 | 2122366 | NM_000548 |
| TSC2 | Ex21 | chr16 | 2122848 | 2122986 | NM_000548 |
| TSC2 | Ex22 | chr16 | 2124199 | 2124392 | NM_000548 |
| TSC2 | Ex23 | chr16 | 2125798 | 2125895 | NM_000548 |
| TSC2 | Ex24 | chr16 | 2126067 | 2126173 | NM_000548 |
| TSC2 | Ex25 | chr16 | 2126490 | 2126588 | NM_000548 |
| TSC2 | Ex26 | chr16 | 2127597 | 2127729 | NM_000548 |

Targeted Genes and Methodology Details for MayoComplete Sarcoma Panel (continued)

| Gene | Exon | Chromosome | Genomic Start | Genomic Stop | Reference Transcript |
|-------------|-------------|-------------------|----------------------|---------------------|-----------------------------|
| <i>TSC2</i> | Ex27 | chr16 | 2129031 | 2129199 | NM_000548 |
| <i>TSC2</i> | Ex28 | chr16 | 2129275 | 2129431 | NM_000548 |
| <i>TSC2</i> | Ex29 | chr16 | 2129556 | 2129672 | NM_000548 |
| <i>TSC2</i> | Ex30 | chr16 | 2130164 | 2130380 | NM_000548 |
| <i>TSC2</i> | Ex31 | chr16 | 2131594 | 2131801 | NM_000548 |
| <i>TSC2</i> | Ex32 | chr16 | 2132435 | 2132507 | NM_000548 |
| <i>TSC2</i> | Ex33 | chr16 | 2133694 | 2133819 | NM_000548 |
| <i>TSC2</i> | Ex34 | chr16 | 2134227 | 2134718 | NM_000548 |
| <i>TSC2</i> | Ex35 | chr16 | 2134950 | 2135029 | NM_000548 |
| <i>TSC2</i> | Ex36 | chr16 | 2135229 | 2135325 | NM_000548 |
| <i>TSC2</i> | Ex37 | chr16 | 2136192 | 2136382 | NM_000548 |
| <i>TSC2</i> | Ex38 | chr16 | 2136731 | 2136874 | NM_000548 |
| <i>TSC2</i> | Ex39 | chr16 | 2137862 | 2137944 | NM_000548 |
| <i>TSC2</i> | Ex40 | chr16 | 2138047 | 2138142 | NM_000548 |
| <i>TSC2</i> | Ex41 | chr16 | 2138226 | 2138328 | NM_000548 |
| <i>TSC2</i> | Ex42 | chr16 | 2138445 | 2138613 | NM_000548 |