



The following applies to MCGYN / MayoComplete Gynecological Cancer Panel, Next-Generation Sequencing. 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. 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.

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
AKT1	Ex2	chr14	105258933	105258982	NM_005163
AKT1	Ex3	chr14	105246423	105246555	NM_005163
AKT1	Ex4	chr14	105242994	105243109	NM_005163
AKT1	Ex5	chr14	105241987	105242138	NM_005163
AKT1	Ex6	chr14	105241411	105241546	NM_005163
AKT1	Ex7	chr14	105241273	105241342	NM_005163
AKT1	Ex8	chr14	105240247	105240319	NM_005163
AKT1	Ex9	chr14	105239790	105239919	NM_005163
AKT1	Ex10	chr14	105239586	105239718	NM_005163
AKT1	Ex11	chr14	105239213	105239431	NM_005163
AKT1	Ex12	chr14	105238700	105238791	NM_005163
AKT1	Ex13	chr14	105237080	105237186	NM_005163
AKT1	Ex14	chr14	105236676	105236759	NM_005163
APC	Ex2	chr5	112090586	112090724	NM_000038
APC	Ex3	chr5	112102021	112102109	NM_000038
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
ARID1A	Ex1	chr1	27022893	27024033	NM_006015
ARID1A	Ex2	chr1	27056140	27056356	NM_006015

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
ARID1A	Ex3	chr1	27057641	27058097	NM_006015
ARID1A	Ex4	chr1	27059165	27059285	NM_006015
ARID1A	Ex5	chr1	27087345	27087589	NM_006015
ARID1A	Ex6	chr1	27087873	27087966	NM_006015
ARID1A	Ex7	chr1	27088641	27088812	NM_006015
ARID1A	Ex8	chr1	27089462	27089778	NM_006015
ARID1A	Ex9	chr1	27092710	27092859	NM_006015
ARID1A	Ex10	chr1	27092946	27093059	NM_006015
ARID1A	Ex11	chr1	27094279	27094492	NM_006015
ARID1A	Ex12	chr1	27097608	27097819	NM_006015
ARID1A	Ex13	chr1	27098989	27099125	NM_006015
ARID1A	Ex14	chr1	27099301	27099480	NM_006015
ARID1A	Ex15	chr1	27099835	27099989	NM_006015
ARID1A	Ex16	chr1	27100069	27100178	NM_006015
ARID1A	Ex17	chr1	27100291	27100391	NM_006015
ARID1A	Ex18	chr1	27100818	27101713	NM_006015
ARID1A	Ex19	chr1	27102066	27102200	NM_006015
ARID1A	Ex20	chr1	27105512	27107249	NM_006015
ARID1B	Ex2	chr6	157150359	157150557	NM_001374828
ARID1B	Ex3	chr6	157222508	157222661	NM_001374828
ARID1B	Ex4	chr6	157256598	157256712	NM_001374828
ARID1B	Ex5	chr6	157405794	157406041	NM_001374828
ARID1B	Ex6	chr6	157431604	157431697	NM_001374828
ARID1B	Ex7	chr6	157454160	157454343	NM_001374828
ARID1B	Ex8	chr6	157469756	157470087	NM_001374828
ARID1B	Ex9	chr6	157488172	157488321	NM_001374828
ARID1B	Ex10	chr6	157495140	157495253	NM_001374828
ARID1B	Ex11	chr6	157495979	157496141	NM_001374828
ARID1B	Ex12	chr6	157502101	157502314	NM_001374828
ARID1B	Ex13	chr6	157505363	157505571	NM_001374828
ARID1B	Ex14	chr6	157510774	157510916	NM_001374828
ARID1B	Ex15	chr6	157511170	157511346	NM_001374828
ARID1B	Ex16	chr6	157517297	157517451	NM_001374828
ARID1B	Ex17	chr6	157519943	157520043	NM_001374828
ARID1B	Ex18	chr6	157521837	157522624	NM_001374828
ARID1B	Ex19	chr6	157524998	157525132	NM_001374828
ARID1B	Ex20	chr6	157527299	157529027	NM_001374828
ATM	Ex2	chr11	108098350	108098425	NM_000051
ATM	Ex3	chr11	108098501	108098617	NM_000051

**Targeted Genes and Methodology Details for
MayoComplete Gynecological Panel** (continued)

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
ATM	Ex4	chr11	108099903	108100052	NM_000051
ATM	Ex5	chr11	108106395	108106563	NM_000051
ATM	Ex6	chr11	108114678	108114847	NM_000051
ATM	Ex7	chr11	108115513	108115755	NM_000051
ATM	Ex8	chr11	108117689	108117856	NM_000051
ATM	Ex9	chr11	108119658	108119831	NM_000051
ATM	Ex10	chr11	108121426	108121801	NM_000051
ATM	Ex11	chr11	108122562	108122760	NM_000051
ATM	Ex12	chr11	108123542	108123641	NM_000051
ATM	Ex13	chr11	108124539	108124768	NM_000051
ATM	Ex14	chr11	108126940	108127069	NM_000051
ATM	Ex15	chr11	108128206	108128335	NM_000051
ATM	Ex16	chr11	108129711	108129804	NM_000051
ATM	Ex17	chr11	108137896	108138071	NM_000051
ATM	Ex18	chr11	108139135	108139338	NM_000051
ATM	Ex19	chr11	108141789	108141875	NM_000051
ATM	Ex20	chr11	108141976	108142135	NM_000051
ATM	Ex21	chr11	108143257	108143336	NM_000051
ATM	Ex22	chr11	108143447	108143581	NM_000051
ATM	Ex23	chr11	108150216	108150337	NM_000051
ATM	Ex24	chr11	108151720	108151897	NM_000051
ATM	Ex25	chr11	108153435	108153558	NM_000051
ATM	Ex26	chr11	108154952	108155202	NM_000051
ATM	Ex27	chr11	108158325	108158444	NM_000051
ATM	Ex28	chr11	108159702	108159832	NM_000051
ATM	Ex29	chr11	108160327	108160530	NM_000051
ATM	Ex30	chr11	108163344	108163522	NM_000051
ATM	Ex31	chr11	108164038	108164206	NM_000051
ATM	Ex32	chr11	108165652	108165788	NM_000051
ATM	Ex33	chr11	108168012	108168111	NM_000051
ATM	Ex34	chr11	108170439	108170614	NM_000051
ATM	Ex35	chr11	108172373	108172518	NM_000051
ATM	Ex36	chr11	108173578	108173758	NM_000051
ATM	Ex37	chr11	108175400	108175581	NM_000051
ATM	Ex38	chr11	108178622	108178713	NM_000051
ATM	Ex39	chr11	108180885	108181044	NM_000051
ATM	Ex40	chr11	108183136	108183227	NM_000051
ATM	Ex41	chr11	108186548	108186640	NM_000051
ATM	Ex42	chr11	108186736	108186842	NM_000051

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
ATM	Ex43	chr11	108188098	108188250	NM_000051
ATM	Ex44	chr11	108190679	108190787	NM_000051
ATM	Ex45	chr11	108192026	108192149	NM_000051
ATM	Ex46	chr11	108196035	108196273	NM_000051
ATM	Ex47	chr11	108196783	108196954	NM_000051
ATM	Ex48	chr11	108198370	108198487	NM_000051
ATM	Ex49	chr11	108199746	108199967	NM_000051
ATM	Ex50	chr11	108200939	108201150	NM_000051
ATM	Ex51	chr11	108202169	108202286	NM_000051
ATM	Ex52	chr11	108202604	108202766	NM_000051
ATM	Ex53	chr11	108203487	108203629	NM_000051
ATM	Ex54	chr11	108204611	108204697	NM_000051
ATM	Ex55	chr11	108205694	108205838	NM_000051
ATM	Ex56	chr11	108206570	108206690	NM_000051
ATM	Ex57	chr11	108213947	108214100	NM_000051
ATM	Ex58	chr11	108216468	108216637	NM_000051
ATM	Ex59	chr11	108218004	108218094	NM_000051
ATM	Ex60	chr11	108224491	108224609	NM_000051
ATM	Ex61	chr11	108225536	108225603	NM_000051
ATM	Ex62	chr11	108235807	108235947	NM_000051
ATM	Ex63	chr11	108236050	108236237	NM_000051
ATR	Ex1	chr3	142297486	142297548	NM_001184
ATR	Ex2	chr3	142286903	142286998	NM_001184
ATR	Ex3	chr3	142284961	142285105	NM_001184
ATR	Ex4	chr3	142281072	142281953	NM_001184
ATR	Ex5	chr3	142280083	142280265	NM_001184
ATR	Ex6	chr3	142279103	142279298	NM_001184
ATR	Ex7	chr3	142278091	142278285	NM_001184
ATR	Ex8	chr3	142277464	142277620	NM_001184
ATR	Ex9	chr3	142275223	142275419	NM_001184
ATR	Ex10	chr3	142274717	142274983	NM_001184
ATR	Ex11	chr3	142272665	142272859	NM_001184
ATR	Ex12	chr3	142272480	142272584	NM_001184
ATR	Ex13	chr3	142272067	142272242	NM_001184
ATR	Ex14	chr3	142268972	142269146	NM_001184
ATR	Ex15	chr3	142268319	142268517	NM_001184
ATR	Ex16	chr3	142266565	142266754	NM_001184
ATR	Ex17	chr3	142261505	142261601	NM_001184
ATR	Ex18	chr3	142259744	142259878	NM_001184

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
ATR	Ex19	chr3	142257322	142257469	NM_001184
ATR	Ex20	chr3	142254948	142255045	NM_001184
ATR	Ex21	chr3	142253920	142254049	NM_001184
ATR	Ex22	chr3	142242833	142243043	NM_001184
ATR	Ex23	chr3	142241568	142241685	NM_001184
ATR	Ex24	chr3	142238509	142238628	NM_001184
ATR	Ex25	chr3	142234235	142234359	NM_001184
ATR	Ex26	chr3	142232341	142232482	NM_001184
ATR	Ex27	chr3	142231100	142231314	NM_001184
ATR	Ex28	chr3	142226771	142226953	NM_001184
ATR	Ex29	chr3	142223979	142224147	NM_001184
ATR	Ex30	chr3	142222202	142222297	NM_001184
ATR	Ex31	chr3	142218467	142218562	NM_001184
ATR	Ex32	chr3	142217437	142217618	NM_001184
ATR	Ex33	chr3	142215853	142216036	NM_001184
ATR	Ex34	chr3	142215201	142215364	NM_001184
ATR	Ex35	chr3	142211972	142212155	NM_001184
ATR	Ex36	chr3	142203980	142204126	NM_001184
ATR	Ex37	chr3	142188926	142189027	NM_001184
ATR	Ex38	chr3	142188177	142188413	NM_001184
ATR	Ex39	chr3	142186774	142186912	NM_001184
ATR	Ex40	chr3	142185164	142185377	NM_001184
ATR	Ex41	chr3	142183937	142184084	NM_001184
ATR	Ex42	chr3	142180780	142180934	NM_001184
ATR	Ex43	chr3	142178067	142178227	NM_001184
ATR	Ex44	chr3	142177798	142177955	NM_001184
ATR	Ex45	chr3	142176444	142176599	NM_001184
ATR	Ex46	chr3	142171968	142172077	NM_001184
ATR	Ex47	chr3	142168269	142168446	NM_001184
ATRX	Ex1	chrX	77041466	77041489	NM_000489
ATRX	Ex2	chrX	76972606	76972722	NM_000489
ATRX	Ex3	chrX	76954060	76954119	NM_000489
ATRX	Ex4	chrX	76953069	76953125	NM_000489
ATRX	Ex5	chrX	76952063	76952194	NM_000489
ATRX	Ex6	chrX	76949311	76949428	NM_000489
ATRX	Ex7	chrX	76944309	76944422	NM_000489
ATRX	Ex8	chrX	76940429	76940500	NM_000489
ATRX	Ex9	chrX	76937010	76940087	NM_000489
ATRX	Ex10	chrX	76931719	76931795	NM_000489

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
ATRX	Ex11	chrX	76920132	76920269	NM_000489
ATRX	Ex12	chrX	76918869	76919049	NM_000489
ATRX	Ex13	chrX	76912048	76912145	NM_000489
ATRX	Ex14	chrX	76909586	76909692	NM_000489
ATRX	Ex15	chrX	76907602	76907845	NM_000489
ATRX	Ex16	chrX	76891404	76891549	NM_000489
ATRX	Ex17	chrX	76890083	76890196	NM_000489
ATRX	Ex18	chrX	76889052	76889202	NM_000489
ATRX	Ex19	chrX	76888693	76888874	NM_000489
ATRX	Ex20	chrX	76875861	76876002	NM_000489
ATRX	Ex21	chrX	76874272	76874451	NM_000489
ATRX	Ex22	chrX	76872079	76872200	NM_000489
ATRX	Ex23	chrX	76855901	76856035	NM_000489
ATRX	Ex24	chrX	76855199	76855291	NM_000489
ATRX	Ex25	chrX	76854878	76855051	NM_000489
ATRX	Ex26	chrX	76849164	76849321	NM_000489
ATRX	Ex27	chrX	76845302	76845412	NM_000489
ATRX	Ex28	chrX	76829713	76829825	NM_000489
ATRX	Ex29	chrX	76814138	76814319	NM_000489
ATRX	Ex30	chrX	76812920	76813118	NM_000489
ATRX	Ex31	chrX	76778728	76778881	NM_000489
ATRX	Ex32	chrX	76777739	76777868	NM_000489
ATRX	Ex33	chrX	76776879	76776978	NM_000489
ATRX	Ex34	chrX	76776264	76776396	NM_000489
ATRX	Ex35	chrX	76763827	76764109	NM_000489
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

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
<i>BAP1</i>	Ex15	chr3	52436793	52436889	NM_004656
<i>BAP1</i>	Ex16	chr3	52436616	52436692	NM_004656
<i>BAP1</i>	Ex17	chr3	52436302	52436439	NM_004656
<i>BARD1</i>	Ex1	chr2	215674134	215674295	NM_000465
<i>BARD1</i>	Ex2	chr2	215661783	215661843	NM_000465
<i>BARD1</i>	Ex3	chr2	215657019	215657171	NM_000465
<i>BARD1</i>	Ex4	chr2	215645282	215646235	NM_000465
<i>BARD1</i>	Ex5	chr2	215633954	215634038	NM_000465
<i>BARD1</i>	Ex6	chr2	215632204	215632380	NM_000465
<i>BARD1</i>	Ex7	chr2	215617169	215617281	NM_000465
<i>BARD1</i>	Ex8	chr2	215610444	215610580	NM_000465
<i>BARD1</i>	Ex9	chr2	215609789	215609885	NM_000465
<i>BARD1</i>	Ex10	chr2	215595133	215595234	NM_000465
<i>BARD1</i>	Ex11	chr2	215593398	215593734	NM_000465
<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>BRCA1</i>	Ex2	chr17	41276032	41276115	NM_007294
<i>BRCA1</i>	Ex3	chr17	41267741	41267798	NM_007294
<i>BRCA1</i>	Ex4	chr17	41258471	41258552	NM_007294
<i>BRCA1</i>	Ex5	chr17	41256883	41256975	NM_007294
<i>BRCA1</i>	Ex6	chr17	41256137	41256280	NM_007294
<i>BRCA1</i>	Ex7	chr17	41251790	41251899	NM_007294
<i>BRCA1</i>	Ex8	chr17	41249259	41249308	NM_007294

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
BRCA1	Ex9	chr17	41247861	41247941	NM_007294
BRCA1	Ex10	chr17	41243450	41246879	NM_007294
BRCA1	Ex11	chr17	41242959	41243051	NM_007294
BRCA1	Ex12	chr17	41234419	41234594	NM_007294
BRCA1	Ex13	chr17	41228503	41228633	NM_007294
BRCA1	Ex14	chr17	41226346	41226540	NM_007294
BRCA1	Ex15	chr17	41222943	41223257	NM_007294
BRCA1	Ex16	chr17	41219623	41219714	NM_007294
BRCA1	Ex17	chr17	41215889	41215970	NM_007294
BRCA1	Ex18	chr17	41215348	41215392	NM_007294
BRCA1	Ex19	chr17	41209067	41209154	NM_007294
BRCA1	Ex20	chr17	41203078	41203136	NM_007294
BRCA1	Ex21	chr17	41201136	41201213	NM_007294
BRCA1	Ex22	chr17	41199658	41199722	NM_007294
BRCA1	Ex23	chr17	41197693	41197821	NM_007294
BRCA2	Ex2	chr13	32890596	32890666	NM_000059
BRCA2	Ex3	chr13	32893212	32893464	NM_000059
BRCA2	Ex4	chr13	32899211	32899323	NM_000059
BRCA2	Ex5	chr13	32900236	32900289	NM_000059
BRCA2	Ex6	chr13	32900377	32900421	NM_000059
BRCA2	Ex7	chr13	32900634	32900752	NM_000059
BRCA2	Ex8	chr13	32903578	32903631	NM_000059
BRCA2	Ex9	chr13	32905054	32905169	NM_000059
BRCA2	Ex10	chr13	32906407	32907526	NM_000059
BRCA2	Ex11	chr13	32910400	32915335	NM_000059
BRCA2	Ex12	chr13	32918693	32918792	NM_000059
BRCA2	Ex13	chr13	32920962	32921035	NM_000059
BRCA2	Ex14	chr13	32928996	32929427	NM_000059
BRCA2	Ex15	chr13	32930563	32930748	NM_000059
BRCA2	Ex16	chr13	32931877	32932068	NM_000059
BRCA2	Ex17	chr13	32936658	32936832	NM_000059
BRCA2	Ex18	chr13	32937314	32937672	NM_000059
BRCA2	Ex19	chr13	32944537	32944696	NM_000059
BRCA2	Ex20	chr13	32945091	32945239	NM_000059
BRCA2	Ex21	chr13	32950805	32950930	NM_000059
BRCA2	Ex22	chr13	32953452	32953654	NM_000059
BRCA2	Ex23	chr13	32953885	32954052	NM_000059
BRCA2	Ex24	chr13	32954142	32954284	NM_000059
BRCA2	Ex25	chr13	32968824	32969072	NM_000059

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
BRCA2	Ex26	chr13	32971033	32971183	NM_000059
BRCA2	Ex27	chr13	32972297	32972909	NM_000059
BRIP1	Ex2	chr17	59938806	59938902	NM_032043
BRIP1	Ex3	chr17	59937155	59937270	NM_032043
BRIP1	Ex4	chr17	59934417	59934594	NM_032043
BRIP1	Ex5	chr17	59926488	59926619	NM_032043
BRIP1	Ex6	chr17	59924460	59924583	NM_032043
BRIP1	Ex7	chr17	59885826	59886120	NM_032043
BRIP1	Ex8	chr17	59878612	59878837	NM_032043
BRIP1	Ex9	chr17	59876459	59876662	NM_032043
BRIP1	Ex10	chr17	59870956	59871092	NM_032043
BRIP1	Ex11	chr17	59861629	59861787	NM_032043
BRIP1	Ex12	chr17	59858199	59858368	NM_032043
BRIP1	Ex13	chr17	59857620	59857764	NM_032043
BRIP1	Ex14	chr17	59853760	59853925	NM_032043
BRIP1	Ex15	chr17	59821791	59821954	NM_032043
BRIP1	Ex16	chr17	59820372	59820497	NM_032043
BRIP1	Ex17	chr17	59793310	59793426	NM_032043
BRIP1	Ex18	chr17	59770789	59770875	NM_032043
BRIP1	Ex19	chr17	59763195	59763528	NM_032043
BRIP1	Ex20	chr17	59760655	59761503	NM_032043
CDC42	Ex2	chr1	22404970	22405078	NM_001791
CDC42	Ex3	chr1	22408213	22408289	NM_001791
CDC42	Ex4	chr1	22412930	22413043	NM_001791
CDC42	Ex5	chr1	22413160	22413361	NM_001791
CDC42	Ex6	chr1	22417919	22418012	NM_001791
CDK12	Ex1	chr17	37618323	37619372	NM_016507
CDK12	Ex2	chr17	37627130	37628018	NM_016507
CDK12	Ex3	chr17	37646808	37646988	NM_016507
CDK12	Ex4	chr17	37649002	37649145	NM_016507
CDK12	Ex5	chr17	37650775	37650949	NM_016507
CDK12	Ex6	chr17	37657501	37657694	NM_016507
CDK12	Ex7	chr17	37665956	37666016	NM_016507
CDK12	Ex8	chr17	37667780	37667885	NM_016507
CDK12	Ex9	chr17	37671982	37672063	NM_016507
CDK12	Ex10	chr17	37673691	37673811	NM_016507
CDK12	Ex11	chr17	37676207	37676342	NM_016507
CDK12	Ex12	chr17	37680925	37681140	NM_016507
CDK12	Ex13	chr17	37682115	37682571	NM_016507

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
<i>CDK12</i>	Ex14	chr17	37686855	37687571	NM_016507
<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
<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

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
<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>EIF1AX</i>	Ex1	chrX	20159741	20159760	NM_001412
<i>EIF1AX</i>	Ex2	chrX	20156655	20156742	NM_001412
<i>EIF1AX</i>	Ex4	chrX	20152073	20152127	NM_001412
<i>EIF1AX</i>	Ex5	chrX	20150298	20150383	NM_001412
<i>EIF1AX</i>	Ex7	chrX	20146422	20146431	NM_001412
<i>EPCAM</i>	Ex1	chr2	47596643	47596722	NM_002354
<i>EPCAM</i>	Ex2	chr2	47600600	47600711	NM_002354
<i>EPCAM</i>	Ex3	chr2	47600945	47601189	NM_002354
<i>EPCAM</i>	Ex4	chr2	47602371	47602440	NM_002354
<i>EPCAM</i>	Ex5	chr2	47604151	47604218	NM_002354
<i>EPCAM</i>	Ex6	chr2	47606090	47606195	NM_002354
<i>EPCAM</i>	Ex7	chr2	47606906	47607110	NM_002354
<i>EPCAM</i>	Ex8	chr2	47612303	47612351	NM_002354
<i>EPCAM</i>	Ex9	chr2	47613709	47613754	NM_002354
<i>ERBB2</i>	Ex1	chr17	37856490	37856566	NM_004448
<i>ERBB2</i>	Ex2	chr17	37863241	37863396	NM_004448
<i>ERBB2</i>	Ex3	chr17	37864572	37864789	NM_004448
<i>ERBB2</i>	Ex4	chr17	37865569	37865707	NM_004448
<i>ERBB2</i>	Ex5	chr17	37866064	37866136	NM_004448
<i>ERBB2</i>	Ex6	chr17	37866337	37866456	NM_004448
<i>ERBB2</i>	Ex7	chr17	37866591	37866736	NM_004448
<i>ERBB2</i>	Ex8	chr17	37868179	37868302	NM_004448
<i>ERBB2</i>	Ex9	chr17	37868573	37868703	NM_004448
<i>ERBB2</i>	Ex10	chr17	37871537	37871614	NM_004448
<i>ERBB2</i>	Ex11	chr17	37871697	37871791	NM_004448
<i>ERBB2</i>	Ex12	chr17	37871991	37872194	NM_004448
<i>ERBB2</i>	Ex13	chr17	37872552	37872688	NM_004448
<i>ERBB2</i>	Ex14	chr17	37872766	37872860	NM_004448
<i>ERBB2</i>	Ex15	chr17	37873571	37873735	NM_004448
<i>ERBB2</i>	Ex16	chr17	37876038	37876089	NM_004448
<i>ERBB2</i>	Ex17	chr17	37879570	37879712	NM_004448
<i>ERBB2</i>	Ex18	chr17	37879789	37879915	NM_004448
<i>ERBB2</i>	Ex19	chr17	37880163	37880265	NM_004448
<i>ERBB2</i>	Ex20	chr17	37880977	37881166	NM_004448

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
<i>ERBB2</i>	Ex21	chr17	37881300	37881459	NM_004448
<i>ERBB2</i>	Ex22	chr17	37881578	37881657	NM_004448
<i>ERBB2</i>	Ex23	chr17	37881958	37882108	NM_004448
<i>ERBB2</i>	Ex24	chr17	37882813	37882914	NM_004448
<i>ERBB2</i>	Ex25	chr17	37883066	37883258	NM_004448
<i>ERBB2</i>	Ex26	chr17	37883546	37883802	NM_004448
<i>ERBB2</i>	Ex27	chr17	37883940	37884299	NM_004448
<i>FBXW7</i>	Ex2	chr4	153332453	153332957	NM_033632
<i>FBXW7</i>	Ex3	chr4	153271192	153271278	NM_033632
<i>FBXW7</i>	Ex4	chr4	153268080	153268225	NM_033632
<i>FBXW7</i>	Ex5	chr4	153258952	153259090	NM_033632
<i>FBXW7</i>	Ex6	chr4	153253746	153253873	NM_033632
<i>FBXW7</i>	Ex7	chr4	153251882	153252022	NM_033632
<i>FBXW7</i>	Ex8	chr4	153250822	153250939	NM_033632
<i>FBXW7</i>	Ex9	chr4	153249358	153249543	NM_033632
<i>FBXW7</i>	Ex10	chr4	153247156	153247385	NM_033632
<i>FBXW7</i>	Ex11	chr4	153245334	153245548	NM_033632
<i>FBXW7</i>	Ex12	chr4	153244031	153244303	NM_033632
<i>FOXL2</i>	Ex1	chr3	138664432	138665566	NM_023067
<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>KRAS</i>	Ex2	chr12	25398206	25398320	NM_033360
<i>KRAS</i>	Ex3	chr12	25380166	25380348	NM_033360
<i>KRAS</i>	Ex4	chr12	25378546	25378709	NM_033360
<i>KRAS</i>	Ex5	chr12	25368373	25368496	NM_033360
<i>L1CAM</i>	Ex2	chrX	153141214	153141293	NM_001278116
<i>L1CAM</i>	Ex3	chrX	153138681	153138699	NM_001278116
<i>L1CAM</i>	Ex4	chrX	153138045	153138154	NM_001278116

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
L1CAM	Ex5	chrX	153137605	153137811	NM_001278116
L1CAM	Ex6	chrX	153136510	153136636	NM_001278116
L1CAM	Ex7	chrX	153136243	153136417	NM_001278116
L1CAM	Ex8	chrX	153135841	153135956	NM_001278116
L1CAM	Ex9	chrX	153135509	153135697	NM_001278116
L1CAM	Ex10	chrX	153135256	153135391	NM_001278116
L1CAM	Ex11	chrX	153134973	153135120	NM_001278116
L1CAM	Ex12	chrX	153134294	153134409	NM_001278116
L1CAM	Ex13	chrX	153134014	153134184	NM_001278116
L1CAM	Ex14	chrX	153133755	153133915	NM_001278116
L1CAM	Ex15	chrX	153133451	153133579	NM_001278116
L1CAM	Ex16	chrX	153133253	153133367	NM_001278116
L1CAM	Ex17	chrX	153132809	153133010	NM_001278116
L1CAM	Ex18	chrX	153132507	153132581	NM_001278116
L1CAM	Ex19	chrX	153132102	153132328	NM_001278116
L1CAM	Ex20	chrX	153131157	153131276	NM_001278116
L1CAM	Ex21	chrX	153130752	153130957	NM_001278116
L1CAM	Ex22	chrX	153130541	153130667	NM_001278116
L1CAM	Ex23	chrX	153130274	153130451	NM_001278116
L1CAM	Ex24	chrX	153130038	153130161	NM_001278116
L1CAM	Ex25	chrX	153129775	153129934	NM_001278116
L1CAM	Ex26	chrX	153129336	153129474	NM_001278116
L1CAM	Ex27	chrX	153128930	153129006	NM_001278116
L1CAM	Ex28	chrX	153128821	153128836	NM_001278116
L1CAM	Ex29	chrX	153128116	153128351	NM_001278116
MED12	Ex1	chrX	70338603	70338705	NM_005120
MED12	Ex2	chrX	70339221	70339329	NM_005120
MED12	Ex3	chrX	70339534	70339729	NM_005120
MED12	Ex4	chrX	70339862	70340022	NM_005120
MED12	Ex5	chrX	70340819	70341004	NM_005120
MED12	Ex6	chrX	70341175	70341289	NM_005120
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

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
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	70360585	NM_005120
MED12	Ex42	chrX	70360702	70360709	NM_005120
MED12	Ex44	chrX	70361731	70361816	NM_005120
MED12	Ex45	chrX	70362023	70362070	NM_005120
MLH1	Ex1	chr3	37035037	37035156	NM_000249
MLH1	Ex2	chr3	37038108	37038202	NM_000249
MLH1	Ex3	chr3	37042444	37042546	NM_000249
MLH1	Ex4	chr3	37045890	37045967	NM_000249
MLH1	Ex5	chr3	37048480	37048556	NM_000249
MLH1	Ex6	chr3	37050303	37050398	NM_000249
MLH1	Ex7	chr3	37053309	37053355	NM_000249
MLH1	Ex8	chr3	37053500	37053592	NM_000249

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
MLH1	Ex9	chr3	37055921	37056037	NM_000249
MLH1	Ex10	chr3	37058995	37059092	NM_000249
MLH1	Ex11	chr3	37061799	37061956	NM_000249
MLH1	Ex12	chr3	37067126	37067500	NM_000249
MLH1	Ex13	chr3	37070273	37070425	NM_000249
MLH1	Ex14	chr3	37081675	37081787	NM_000249
MLH1	Ex15	chr3	37083757	37083824	NM_000249
MLH1	Ex16	chr3	37089008	37089176	NM_000249
MLH1	Ex17	chr3	37090006	37090102	NM_000249
MLH1	Ex18	chr3	37090393	37090510	NM_000249
MLH1	Ex19	chr3	37091975	37092146	NM_000249
MSH2	Ex1	chr2	47630329	47630543	NM_000251
MSH2	Ex2	chr2	47635538	47635696	NM_000251
MSH2	Ex3	chr2	47637231	47637513	NM_000251
MSH2	Ex4	chr2	47639551	47639701	NM_000251
MSH2	Ex5	chr2	47641406	47641559	NM_000251
MSH2	Ex6	chr2	47643433	47643570	NM_000251
MSH2	Ex7	chr2	47656879	47657082	NM_000251
MSH2	Ex8	chr2	47672685	47672798	NM_000251
MSH2	Ex9	chr2	47690168	47690295	NM_000251
MSH2	Ex10	chr2	47693795	47693949	NM_000251
MSH2	Ex11	chr2	47698102	47698203	NM_000251
MSH2	Ex12	chr2	47702162	47702411	NM_000251
MSH2	Ex13	chr2	47703504	47703712	NM_000251
MSH2	Ex14	chr2	47705409	47705660	NM_000251
MSH2	Ex15	chr2	47707833	47708012	NM_000251
MSH2	Ex16	chr2	47709916	47710090	NM_000251
MSH6	Ex1	chr2	48010371	48010634	NM_000179
MSH6	Ex2	chr2	48018064	48018264	NM_000179
MSH6	Ex3	chr2	48023031	48023204	NM_000179
MSH6	Ex4	chr2	48025748	48028296	NM_000179
MSH6	Ex5	chr2	48030557	48030826	NM_000179
MSH6	Ex6	chr2	48032047	48032168	NM_000179
MSH6	Ex7	chr2	48032755	48032848	NM_000179
MSH6	Ex8	chr2	48033341	48033499	NM_000179
MSH6	Ex9	chr2	48033589	48033792	NM_000179
MSH6	Ex10	chr2	48033916	48034001	NM_000179
NBN	Ex1	chr8	90996751	90996791	NM_002485
NBN	Ex2	chr8	90994948	90995085	NM_002485

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
<i>NBN</i>	Ex3	chr8	90993601	90993753	NM_002485
<i>NBN</i>	Ex4	chr8	90992960	90993123	NM_002485
<i>NBN</i>	Ex5	chr8	90990446	90990553	NM_002485
<i>NBN</i>	Ex6	chr8	90983399	90983520	NM_002485
<i>NBN</i>	Ex7	chr8	90982590	90982787	NM_002485
<i>NBN</i>	Ex8	chr8	90976636	90976737	NM_002485
<i>NBN</i>	Ex9	chr8	90970951	90971084	NM_002485
<i>NBN</i>	Ex10	chr8	90967509	90967785	NM_002485
<i>NBN</i>	Ex11	chr8	90965470	90965921	NM_002485
<i>NBN</i>	Ex12	chr8	90960050	90960122	NM_002485
<i>NBN</i>	Ex13	chr8	90958366	90958525	NM_002485
<i>NBN</i>	Ex14	chr8	90955479	90955596	NM_002485
<i>NBN</i>	Ex15	chr8	90949252	90949305	NM_002485
<i>NBN</i>	Ex16	chr8	90947808	90947842	NM_002485
<i>NF2</i>	Ex1	chr22	29999986	30000103	NM_000268
<i>NF2</i>	Ex2	chr22	30032738	30032867	NM_000268
<i>NF2</i>	Ex3	chr22	30035077	30035203	NM_000268
<i>NF2</i>	Ex4	chr22	30038189	30038276	NM_000268
<i>NF2</i>	Ex5	chr22	30050644	30050716	NM_000268
<i>NF2</i>	Ex6	chr22	30051581	30051667	NM_000268
<i>NF2</i>	Ex7	chr22	30054176	30054255	NM_000268
<i>NF2</i>	Ex8	chr22	30057192	30057330	NM_000268
<i>NF2</i>	Ex9	chr22	30060977	30061055	NM_000268
<i>NF2</i>	Ex10	chr22	30064320	30064437	NM_000268
<i>NF2</i>	Ex11	chr22	30067813	30067939	NM_000268
<i>NF2</i>	Ex12	chr22	30069256	30069477	NM_000268
<i>NF2</i>	Ex13	chr22	30070823	30070932	NM_000268
<i>NF2</i>	Ex14	chr22	30074183	30074314	NM_000268
<i>NF2</i>	Ex15	chr22	30077426	30077592	NM_000268
<i>NF2</i>	Ex16	chr22	30090739	30090793	NM_000268
<i>NRAS</i>	Ex2	chr1	115258669	115258783	NM_002524
<i>NRAS</i>	Ex3	chr1	115256419	115256601	NM_002524
<i>NRAS</i>	Ex4	chr1	115252188	115252351	NM_002524
<i>NRAS</i>	Ex5	chr1	115251154	115251277	NM_002524
<i>PALB2</i>	Ex1	chr16	23652429	23652480	NM_024675
<i>PALB2</i>	Ex2	chr16	23649389	23649452	NM_024675
<i>PALB2</i>	Ex3	chr16	23649169	23649275	NM_024675
<i>PALB2</i>	Ex4	chr16	23646181	23647657	NM_024675
<i>PALB2</i>	Ex5	chr16	23640959	23641792	NM_024675

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
PALB2	Ex6	chr16	23640523	23640598	NM_024675
PALB2	Ex7	chr16	23637555	23637720	NM_024675
PALB2	Ex8	chr16	23635328	23635417	NM_024675
PALB2	Ex9	chr16	23634288	23634453	NM_024675
PALB2	Ex10	chr16	23632681	23632801	NM_024675
PALB2	Ex11	chr16	23625323	23625414	NM_024675
PALB2	Ex12	chr16	23619183	23619335	NM_024675
PALB2	Ex13	chr16	23614778	23614992	NM_024675
PIK3CA	Ex2	chr3	178916612	178916967	NM_006218
PIK3CA	Ex3	chr3	178917476	178917689	NM_006218
PIK3CA	Ex4	chr3	178919076	178919330	NM_006218
PIK3CA	Ex5	chr3	178921330	178921579	NM_006218
PIK3CA	Ex6	chr3	178922289	178922378	NM_006218
PIK3CA	Ex7	chr3	178927381	178927490	NM_006218
PIK3CA	Ex8	chr3	178927972	178928128	NM_006218
PIK3CA	Ex9	chr3	178928217	178928355	NM_006218
PIK3CA	Ex10	chr3	178935996	178936124	NM_006218
PIK3CA	Ex11	chr3	178936982	178937067	NM_006218
PIK3CA	Ex12	chr3	178937357	178937525	NM_006218
PIK3CA	Ex13	chr3	178937735	178937842	NM_006218
PIK3CA	Ex14	chr3	178938772	178938947	NM_006218
PIK3CA	Ex15	chr3	178941867	178941977	NM_006218
PIK3CA	Ex16	chr3	178942486	178942611	NM_006218
PIK3CA	Ex17	chr3	178943748	178943830	NM_006218
PIK3CA	Ex18	chr3	178947058	178947232	NM_006218
PIK3CA	Ex19	chr3	178947790	178947911	NM_006218
PIK3CA	Ex20	chr3	178948011	178948166	NM_006218
PIK3CA	Ex21	chr3	178951880	178952154	NM_006218
PIK3R1	Ex2	chr5	67522502	67522839	NM_181523
PIK3R1	Ex3	chr5	67569216	67569312	NM_181523
PIK3R1	Ex4	chr5	67569765	67569843	NM_181523
PIK3R1	Ex5	chr5	67575428	67575563	NM_181523
PIK3R1	Ex6	chr5	67576354	67576559	NM_181523
PIK3R1	Ex7	chr5	67576753	67576836	NM_181523
PIK3R1	Ex8	chr5	67588085	67588191	NM_181523
PIK3R1	Ex9	chr5	67588927	67589029	NM_181523
PIK3R1	Ex10	chr5	67589129	67589313	NM_181523
PIK3R1	Ex11	chr5	67589535	67589664	NM_181523
PIK3R1	Ex12	chr5	67590362	67590508	NM_181523

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
<i>PIK3R1</i>	Ex13	chr5	67590974	67591154	NM_181523
<i>PIK3R1</i>	Ex14	chr5	67591246	67591318	NM_181523
<i>PIK3R1</i>	Ex15	chr5	67591997	67592171	NM_181523
<i>PIK3R1</i>	Ex16	chr5	67593238	67593431	NM_181523
<i>PMS2</i>	Ex1	chr7	6048626	6048652	NM_000535
<i>PMS2</i>	Ex2	chr7	6045521	6045664	NM_000535
<i>PMS2</i>	Ex3	chr7	6043601	6043691	NM_000535
<i>PMS2</i>	Ex4	chr7	6043319	6043425	NM_000535
<i>PMS2</i>	Ex5	chr7	6042082	6042269	NM_000535
<i>PMS2</i>	Ex6	chr7	6038737	6038908	NM_000535
<i>PMS2</i>	Ex7	chr7	6036955	6037056	NM_000535
<i>PMS2</i>	Ex8	chr7	6035163	6035266	NM_000535
<i>PMS2</i>	Ex9	chr7	6031602	6031690	NM_000535
<i>PMS2</i>	Ex10	chr7	6029429	6029588	NM_000535
<i>PMS2</i>	Ex11	chr7	6026388	6027253	NM_000535
<i>PMS2</i>	Ex12	chr7	6022453	6022624	NM_000535
<i>PMS2</i>	Ex13	chr7	6018225	6018329	NM_000535
<i>PMS2</i>	Ex14	chr7	6017217	6017390	NM_000535
<i>PMS2</i>	Ex15	chr7	6013028	6013175	NM_000535
<i>POLE</i>	Ex1	chr12	133263838	133263903	NM_006231
<i>POLE</i>	Ex2	chr12	133257722	133257867	NM_006231
<i>POLE</i>	Ex3	chr12	133257191	133257275	NM_006231
<i>POLE</i>	Ex4	chr12	133256762	133256810	NM_006231
<i>POLE</i>	Ex5	chr12	133256538	133256634	NM_006231
<i>POLE</i>	Ex6	chr12	133256081	133256239	NM_006231
<i>POLE</i>	Ex7	chr12	133254162	133254307	NM_006231
<i>POLE</i>	Ex8	chr12	133253947	133254031	NM_006231
<i>POLE</i>	Ex9	chr12	133253130	133253241	NM_006231
<i>POLE</i>	Ex10	chr12	133252678	133252792	NM_006231
<i>POLE</i>	Ex11	chr12	133252319	133252408	NM_006231
<i>POLE</i>	Ex12	chr12	133251982	133252105	NM_006231
<i>POLE</i>	Ex13	chr12	133250159	133250295	NM_006231
<i>POLE</i>	Ex14	chr12	133249748	133249865	NM_006231
<i>POLE</i>	Ex15	chr12	133249211	133249427	NM_006231
<i>POLE</i>	Ex16	chr12	133248799	133248910	NM_006231
<i>POLE</i>	Ex17	chr12	133245395	133245527	NM_006231
<i>POLE</i>	Ex18	chr12	133245219	133245325	NM_006231
<i>POLE</i>	Ex19	chr12	133244940	133245090	NM_006231
<i>POLE</i>	Ex20	chr12	133244087	133244236	NM_006231

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
POLE	Ex21	chr12	133241886	133242038	NM_006231
POLE	Ex22	chr12	133240954	133241050	NM_006231
POLE	Ex23	chr12	133240588	133240736	NM_006231
POLE	Ex24	chr12	133238111	133238272	NM_006231
POLE	Ex25	chr12	133237553	133237752	NM_006231
POLE	Ex26	chr12	133235879	133236097	NM_006231
POLE	Ex27	chr12	133234452	133234558	NM_006231
POLE	Ex28	chr12	133233933	133234017	NM_006231
POLE	Ex29	chr12	133233720	133233846	NM_006231
POLE	Ex30	chr12	133226261	133226477	NM_006231
POLE	Ex31	chr12	133225890	133226103	NM_006231
POLE	Ex32	chr12	133225513	133225660	NM_006231
POLE	Ex33	chr12	133220421	133220565	NM_006231
POLE	Ex34	chr12	133219991	133220148	NM_006231
POLE	Ex35	chr12	133219808	133219918	NM_006231
POLE	Ex36	chr12	133219404	133219584	NM_006231
POLE	Ex37	chr12	133219090	133219317	NM_006231
POLE	Ex38	chr12	133218761	133218985	NM_006231
POLE	Ex39	chr12	133218231	133218439	NM_006231
POLE	Ex40	chr12	133215709	133215886	NM_006231
POLE	Ex41	chr12	133214598	133214727	NM_006231
POLE	Ex42	chr12	133212476	133212612	NM_006231
POLE	Ex43	chr12	133210770	133210966	NM_006231
POLE	Ex44	chr12	133209248	133209383	NM_006231
POLE	Ex45	chr12	133208899	133209096	NM_006231
POLE	Ex46	chr12	133202701	133202905	NM_006231
POLE	Ex47	chr12	133202229	133202358	NM_006231
POLE	Ex48	chr12	133201489	133201582	NM_006231
POLE	Ex49	chr12	133201281	133201398	NM_006231
PPP2R1A	Ex1	chr19	52693348	52693429	NM_014225
PPP2R1A	Ex2	chr19	52705195	52705289	NM_014225
PPP2R1A	Ex3	chr19	52709214	52709318	NM_014225
PPP2R1A	Ex4	chr19	52714511	52714747	NM_014225
PPP2R1A	Ex5	chr19	52715937	52716088	NM_014225
PPP2R1A	Ex6	chr19	52716206	52716365	NM_014225
PPP2R1A	Ex7	chr19	52719030	52719148	NM_014225
PPP2R1A	Ex8	chr19	52719255	52719329	NM_014225
PPP2R1A	Ex9	chr19	52719780	52719918	NM_014225
PPP2R1A	Ex10	chr19	52722942	52723119	NM_014225

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
<i>PPP2R1A</i>	Ex11	chr19	52723440	52723504	NM_014225
<i>PPP2R1A</i>	Ex12	chr19	52724230	52724388	NM_014225
<i>PPP2R1A</i>	Ex13	chr19	52725350	52725496	NM_014225
<i>PPP2R1A</i>	Ex14	chr19	52728968	52729063	NM_014225
<i>PPP2R1A</i>	Ex15	chr19	52729216	52729236	NM_014225
<i>PTEN</i>	Ex1	chr10	89624225	89624307	NM_000314
<i>PTEN</i>	Ex2	chr10	89653780	89653868	NM_000314
<i>PTEN</i>	Ex3	chr10	89685268	89685316	NM_000314
<i>PTEN</i>	Ex4	chr10	89690801	89690848	NM_000314
<i>PTEN</i>	Ex5	chr10	89692768	89693010	NM_000314
<i>PTEN</i>	Ex6	chr10	89711873	89712018	NM_000314
<i>PTEN</i>	Ex7	chr10	89717608	89717778	NM_000314
<i>PTEN</i>	Ex8	chr10	89720649	89720877	NM_000314
<i>RAD51C</i>	Ex1	chr17	56770003	56770151	NM_058216
<i>RAD51C</i>	Ex2	chr17	56772290	56772552	NM_058216
<i>RAD51C</i>	Ex3	chr17	56774052	56774222	NM_058216
<i>RAD51C</i>	Ex4	chr17	56780555	56780692	NM_058216
<i>RAD51C</i>	Ex5	chr17	56787218	56787353	NM_058216
<i>RAD51C</i>	Ex6	chr17	56798105	56798175	NM_058216
<i>RAD51C</i>	Ex7	chr17	56801399	56801463	NM_058216
<i>RAD51C</i>	Ex8	chr17	56809843	56809907	NM_058216
<i>RAD51C</i>	Ex9	chr17	56811477	56811585	NM_058216
<i>RAD51D</i>	Ex1	chr17	33446549	33446634	NM_002878
<i>RAD51D</i>	Ex2	chr17	33446128	33446193	NM_002878
<i>RAD51D</i>	Ex3	chr17	33445518	33445640	NM_002878
<i>RAD51D</i>	Ex4	chr17	33434383	33434468	NM_002878
<i>RAD51D</i>	Ex5	chr17	33434005	33434143	NM_002878
<i>RAD51D</i>	Ex6	chr17	33433403	33433502	NM_002878
<i>RAD51D</i>	Ex7	chr17	33430471	33430565	NM_002878
<i>RAD51D</i>	Ex8	chr17	33430271	33430345	NM_002878
<i>RAD51D</i>	Ex9	chr17	33428218	33428386	NM_002878
<i>RAD51D</i>	Ex10	chr17	33427970	33428057	NM_002878
<i>RB1</i>	Ex1	chr13	48878047	48878187	NM_000321
<i>RB1</i>	Ex2	chr13	48881414	48881544	NM_000321
<i>RB1</i>	Ex3	chr13	48916733	48916852	NM_000321
<i>RB1</i>	Ex4	chr13	48919214	48919337	NM_000321
<i>RB1</i>	Ex5	chr13	48921959	48922001	NM_000321
<i>RB1</i>	Ex6	chr13	48923090	48923161	NM_000321
<i>RB1</i>	Ex7	chr13	48934151	48934265	NM_000321

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
<i>RB1</i>	Ex8	chr13	48936949	48937095	NM_000321
<i>RB1</i>	Ex9	chr13	48939028	48939109	NM_000321
<i>RB1</i>	Ex10	chr13	48941628	48941741	NM_000321
<i>RB1</i>	Ex11	chr13	48942661	48942742	NM_000321
<i>RB1</i>	Ex12	chr13	48947539	48947630	NM_000321
<i>RB1</i>	Ex13	chr13	48951052	48951172	NM_000321
<i>RB1</i>	Ex14	chr13	48953728	48953788	NM_000321
<i>RB1</i>	Ex16	chr13	48954299	48954379	NM_000321
<i>RB1</i>	Ex17	chr13	48955381	48955581	NM_000321
<i>RB1</i>	Ex18	chr13	49027127	49027249	NM_000321
<i>RB1</i>	Ex19	chr13	49030338	49030487	NM_000321
<i>RB1</i>	Ex20	chr13	49033822	49033971	NM_000321
<i>RB1</i>	Ex21	chr13	49037865	49037973	NM_000321
<i>RB1</i>	Ex22	chr13	49039132	49039249	NM_000321
<i>RB1</i>	Ex23	chr13	49039339	49039506	NM_000321
<i>RB1</i>	Ex24	chr13	49047494	49047528	NM_000321
<i>RB1</i>	Ex25	chr13	49050835	49050981	NM_000321
<i>RB1</i>	Ex26	chr13	49051489	49051542	NM_000321
<i>RB1</i>	Ex27	chr13	49054132	49054209	NM_000321
<i>SMARCA2</i>	Ex2	chr9	2029021	2029249	NM_003070
<i>SMARCA2</i>	Ex3	chr9	2032950	2033083	NM_003070
<i>SMARCA2</i>	Ex4	chr9	2039464	2039751	NM_003070
<i>SMARCA2</i>	Ex4	chr9	2039874	2039902	NM_003070
<i>SMARCA2</i>	Ex5	chr9	2047227	2047486	NM_003070
<i>SMARCA2</i>	Ex6	chr9	2054595	2054725	NM_003070
<i>SMARCA2</i>	Ex7	chr9	2056670	2056847	NM_003070
<i>SMARCA2</i>	Ex8	chr9	2058289	2058466	NM_003070
<i>SMARCA2</i>	Ex9	chr9	2060814	2060988	NM_003070
<i>SMARCA2</i>	Ex10	chr9	2070416	2070473	NM_003070
<i>SMARCA2</i>	Ex11	chr9	2073210	2073344	NM_003070
<i>SMARCA2</i>	Ex12	chr9	2073564	2073625	NM_003070
<i>SMARCA2</i>	Ex13	chr9	2076227	2076331	NM_003070
<i>SMARCA2</i>	Ex14	chr9	2077627	2077778	NM_003070
<i>SMARCA2</i>	Ex15	chr9	2081830	2081997	NM_003070
<i>SMARCA2</i>	Ex16	chr9	2083345	2083415	NM_003070
<i>SMARCA2</i>	Ex17	chr9	2084084	2084198	NM_003070
<i>SMARCA2</i>	Ex18	chr9	2086827	2087073	NM_003070
<i>SMARCA2</i>	Ex19	chr9	2088498	2088615	NM_003070
<i>SMARCA2</i>	Ex20	chr9	2096655	2096766	NM_003070

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
SMARCA2	Ex21	chr9	2097383	2097473	NM_003070
SMARCA2	Ex22	chr9	2101568	2101618	NM_003070
SMARCA2	Ex23	chr9	2104001	2104171	NM_003070
SMARCA2	Ex24	chr9	2110252	2110419	NM_003070
SMARCA2	Ex25	chr9	2115820	2116051	NM_003070
SMARCA2	Ex26	chr9	2119456	2119537	NM_003070
SMARCA2	Ex27	chr9	2123717	2123939	NM_003070
SMARCA2	Ex28	chr9	2161684	2161905	NM_003070
SMARCA2	Ex29	chr9	2170417	2170474	NM_003070
SMARCA2	Ex30	chr9	2181569	2181678	NM_003070
SMARCA2	Ex31	chr9	2182139	2182244	NM_003070
SMARCA2	Ex32	chr9	2186094	2186230	NM_003070
SMARCA2	Ex33	chr9	2191264	2191410	NM_003070
SMARCA2	Ex34	chr9	2192702	2192741	NM_003070
SMARCA4	Ex2	chr19	11094826	11095051	NM_001128849
SMARCA4	Ex3	chr19	11095947	11096083	NM_001128849
SMARCA4	Ex4	chr19	11096863	11097271	NM_001128849
SMARCA4	Ex5	chr19	11097579	11097681	NM_001128849
SMARCA4	Ex6	chr19	11098340	11098602	NM_001128849
SMARCA4	Ex7	chr19	11099991	11100121	NM_001128849
SMARCA4	Ex8	chr19	11101824	11102001	NM_001128849
SMARCA4	Ex9	chr19	11105502	11105679	NM_001128849
SMARCA4	Ex10	chr19	11106887	11107058	NM_001128849
SMARCA4	Ex11	chr19	11107168	11107222	NM_001128849
SMARCA4	Ex12	chr19	11113703	11113837	NM_001128849
SMARCA4	Ex13	chr19	11114014	11114075	NM_001128849
SMARCA4	Ex14	chr19	11118576	11118701	NM_001128849
SMARCA4	Ex15	chr19	11121055	11121209	NM_001128849
SMARCA4	Ex16	chr19	11123623	11123790	NM_001128849
SMARCA4	Ex17	chr19	11129631	11129701	NM_001128849
SMARCA4	Ex18	chr19	11130265	11130379	NM_001128849
SMARCA4	Ex19	chr19	11132399	11132645	NM_001128849
SMARCA4	Ex20	chr19	11134192	11134309	NM_001128849
SMARCA4	Ex21	chr19	11135005	11135116	NM_001128849
SMARCA4	Ex22	chr19	11136096	11136186	NM_001128849
SMARCA4	Ex23	chr19	11136974	11137024	NM_001128849
SMARCA4	Ex24	chr19	11138458	11138628	NM_001128849
SMARCA4	Ex25	chr19	11141404	11141571	NM_001128849
SMARCA4	Ex26	chr19	11143964	11144195	NM_001128849

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

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
SMARCA4	Ex27	chr19	11144441	11144543	NM_001128849
SMARCA4	Ex28	chr19	11144797	11144878	NM_001128849
SMARCA4	Ex29	chr19	11145588	11145810	NM_001128849
SMARCA4	Ex30	chr19	11150132	11150231	NM_001128849
SMARCA4	Ex31	chr19	11151981	11152238	NM_001128849
SMARCA4	Ex32	chr19	11168929	11169041	NM_001128849
SMARCA4	Ex33	chr19	11169462	11169567	NM_001128849
SMARCA4	Ex34	chr19	11170427	11170563	NM_001128849
SMARCA4	Ex35	chr19	11170719	11170865	NM_001128849
SMARCA4	Ex36	chr19	11172458	11172494	NM_001128849
SMARCB1	Ex1	chr22	24129355	24129451	NM_003073
SMARCB1	Ex2	chr22	24133941	24134083	NM_003073
SMARCB1	Ex3	chr22	24135744	24135877	NM_003073
SMARCB1	Ex4	chr22	24143129	24143270	NM_003073
SMARCB1	Ex5	chr22	24145480	24145611	NM_003073
SMARCB1	Ex6	chr22	24158955	24159125	NM_003073
SMARCB1	Ex7	chr22	24167410	24167604	NM_003073
SMARCB1	Ex8	chr22	24175757	24175892	NM_003073
SMARCB1	Ex9	chr22	24176326	24176369	NM_003073
STK11	Ex1	chr19	1206911	1207204	NM_000455
STK11	Ex2	chr19	1218414	1218501	NM_000455
STK11	Ex3	chr19	1219321	1219414	NM_000455
STK11	Ex4	chr19	1220370	1220506	NM_000455
STK11	Ex5	chr19	1220578	1220718	NM_000455
STK11	Ex6	chr19	1221210	1221341	NM_000455
STK11	Ex7	chr19	1221946	1222007	NM_000455
STK11	Ex8	chr19	1222982	1223173	NM_000455
STK11	Ex9	chr19	1226451	1226648	NM_000455
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
TRAF7	Ex2	chr16	2213920	2214004	NM_032271

**Targeted Genes and Methodology Details for
MayoComplete Gynecological Panel** (continued)

Gene	Exon	Chromosome	Genomic Start	Genomic Stop	Reference Transcript
TRAF7	Ex3	chr16	2215878	2215939	NM_032271
TRAF7	Ex4	chr16	2218076	2218171	NM_032271
TRAF7	Ex5	chr16	2220613	2220733	NM_032271
TRAF7	Ex6	chr16	2221263	2221359	NM_032271
TRAF7	Ex7	chr16	2221571	2221608	NM_032271
TRAF7	Ex8	chr16	2222190	2222377	NM_032271
TRAF7	Ex9	chr16	2222464	2222602	NM_032271
TRAF7	Ex10	chr16	2223181	2223402	NM_032271
TRAF7	Ex11	chr16	2223480	2223557	NM_032271
TRAF7	Ex12	chr16	2223787	2223839	NM_032271
TRAF7	Ex13	chr16	2223920	2224051	NM_032271
TRAF7	Ex14	chr16	2224250	2224336	NM_032271
TRAF7	Ex15	chr16	2225110	2225153	NM_032271
TRAF7	Ex16	chr16	2225300	2225420	NM_032271
TRAF7	Ex17	chr16	2225499	2225625	NM_032271
TRAF7	Ex18	chr16	2225833	2225956	NM_032271
TRAF7	Ex19	chr16	2226048	2226183	NM_032271
TRAF7	Ex20	chr16	2226264	2226387	NM_032271
TRAF7	Ex21	chr16	2226559	2226577	NM_032271