

## Coverage Analysis Report

Panel genes analyzed: BRCA1, BRCA2, BRIP1, MLH1, MSH2, MSH6, PALB2, RAD51C, RAD51D

### Gene Coverage Summary:

Gene Symbol	Mean Coverage	Completeness at 30X	Exon Count
BRCA1	334.2	100.0	23
BRCA2	418.3	100.0	27
BRIP1	398.0	100.0	20
MLH1	320.7	100.0	19
MSH2	409.7	100.0	16
MSH6	327.1	100.0	10
PALB2	361.6	100.0	13
RAD51C	371.6	100.0	9
RAD51D	274.6	100.0	10

### Exons with < 100% coverage @ 30x:

All exons have 100% coverage at a minimum of 30x.

## Complete Exon Coverage Report

Gene Symbol	Transcript	Entrez ID	Chr	Start	Stop	Mean Coverage	Completeness
MSH2	NM_000251.2	4436	2	47630196	47630551	257.7	100.0
MSH2	NM_000251.2	4436	2	47635530	47635704	474.7	100.0
MSH2	NM_000251.2	4436	2	47637223	47637521	431.4	100.0
MSH2	NM_000251.2	4436	2	47639543	47639709	415.3	100.0
MSH2	NM_000251.2	4436	2	47641398	47641567	520.5	100.0
MSH2	NM_000251.2	4436	2	47643425	47643578	432.1	100.0
MSH2	NM_000251.2	4436	2	47656871	47657090	388.1	100.0
MSH2	NM_000251.2	4436	2	47672677	47672806	486.2	100.0
MSH2	NM_000251.2	4436	2	47690160	47690303	477.1	100.0
MSH2	NM_000251.2	4436	2	47693787	47693957	454.1	100.0
MSH2	NM_000251.2	4436	2	47698094	47698211	536.5	100.0
MSH2	NM_000251.2	4436	2	47702154	47702419	474.9	100.0
MSH2	NM_000251.2	4436	2	47703496	47703720	295.7	100.0
MSH2	NM_000251.2	4436	2	47705401	47705668	353.1	100.0
MSH2	NM_000251.2	4436	2	47707825	47708020	372.2	100.0
MSH2	NM_000251.2	4436	2	47709908	47710099	442.9	100.0
MSH6	NM_000179.2	2956	2	48010211	48010642	215.8	100.0
MSH6	NM_000179.2	2956	2	48018056	48018272	388.4	100.0
MSH6	NM_000179.2	2956	2	48023023	48023212	261.3	100.0
MSH6	NM_000179.2	2956	2	48025740	48028304	316.4	100.0
MSH6	NM_000179.2	2956	2	48030549	48030834	323.9	100.0
MSH6	NM_000179.2	2956	2	48032039	48032176	392.7	100.0
MSH6	NM_000179.2	2956	2	48032747	48032856	381.7	100.0
MSH6	NM_000179.2	2956	2	48033333	48033507	404.5	100.0
MSH6	NM_000179.2	2956	2	48033581	48033800	420.4	100.0
MSH6	NM_000179.2	2956	2	48033908	48034010	581.6	100.0

MLH1	NM_000249.3	4292	3	37034831	37035164	203.5	100.0
MLH1	NM_000249.3	4292	3	37038100	37038210	344.1	100.0
MLH1	NM_000249.3	4292	3	37042436	37042554	398.6	100.0
MLH1	NM_000249.3	4292	3	37045882	37045975	382.9	100.0
MLH1	NM_000249.3	4292	3	37048472	37048564	418.8	100.0
MLH1	NM_000249.3	4292	3	37050295	37050406	486.5	100.0
MLH1	NM_000249.3	4292	3	37053301	37053363	535.4	100.0
MLH1	NM_000249.3	4292	3	37053492	37053600	395.0	100.0
MLH1	NM_000249.3	4292	3	37055913	37056045	372.5	100.0
MLH1	NM_000249.3	4292	3	37058987	37059100	305.9	100.0
MLH1	NM_000249.3	4292	3	37061791	37061964	295.4	100.0
MLH1	NM_000249.3	4292	3	37067118	37067508	240.3	100.0
MLH1	NM_000249.3	4292	3	37070265	37070433	352.6	100.0
MLH1	NM_000249.3	4292	3	37081667	37081795	278.4	100.0
MLH1	NM_000249.3	4292	3	37083749	37083832	424.1	100.0
MLH1	NM_000249.3	4292	3	37089000	37089184	290.6	100.0
MLH1	NM_000249.3	4292	3	37089998	37090110	272.9	100.0
MLH1	NM_000249.3	4292	3	37090385	37090518	322.7	100.0
MLH1	NM_000249.3	4292	3	37091967	37092155	345.5	100.0
BRCA2	NM_000059.3	675	13	32889607	32889814	243.2	100.0
BRCA2	NM_000059.3	675	13	32890549	32890674	451.0	100.0
BRCA2	NM_000059.3	675	13	32893204	32893472	435.2	100.0
BRCA2	NM_000059.3	675	13	32899203	32899331	459.2	100.0
BRCA2	NM_000059.3	675	13	32900228	32900297	472.0	100.0
BRCA2	NM_000059.3	675	13	32900369	32900429	573.2	100.0
BRCA2	NM_000059.3	675	13	32900626	32900760	380.0	100.0
BRCA2	NM_000059.3	675	13	32903570	32903639	401.3	100.0
BRCA2	NM_000059.3	675	13	32905046	32905177	445.9	100.0
BRCA2	NM_000059.3	675	13	32906399	32907534	423.9	100.0
BRCA2	NM_000059.3	675	13	32910392	32915343	428.8	100.0
BRCA2	NM_000059.3	675	13	32918685	32918800	379.9	100.0

BRCA2	NM_000059.3	675	13	32920954	32921043	421.3	100.0
BRCA2	NM_000059.3	675	13	32928988	32929435	464.9	100.0
BRCA2	NM_000059.3	675	13	32930555	32930756	322.2	100.0
BRCA2	NM_000059.3	675	13	32931869	32932076	489.8	100.0
BRCA2	NM_000059.3	675	13	32936650	32936840	326.5	100.0
BRCA2	NM_000059.3	675	13	32937306	32937680	339.9	100.0
BRCA2	NM_000059.3	675	13	32944529	32944704	406.1	100.0
BRCA2	NM_000059.3	675	13	32945083	32945247	431.6	100.0
BRCA2	NM_000059.3	675	13	32950797	32950938	418.4	100.0
BRCA2	NM_000059.3	675	13	32953444	32953662	411.1	100.0
BRCA2	NM_000059.3	675	13	32953877	32954060	475.5	100.0
BRCA2	NM_000059.3	675	13	32954134	32954292	493.2	100.0
BRCA2	NM_000059.3	675	13	32968816	32969080	417.1	100.0
BRCA2	NM_000059.3	675	13	32971025	32971191	432.4	100.0
BRCA2	NM_000059.3	675	13	32972289	32972918	364.0	100.0
PALB2	NM_024675.3	79728	16	23614769	23615000	396.9	100.0
PALB2	NM_024675.3	79728	16	23619175	23619343	356.9	100.0
PALB2	NM_024675.3	79728	16	23625315	23625422	439.8	100.0
PALB2	NM_024675.3	79728	16	23632673	23632809	292.2	100.0
PALB2	NM_024675.3	79728	16	23634280	23634461	319.1	100.0
PALB2	NM_024675.3	79728	16	23635320	23635425	419.4	100.0
PALB2	NM_024675.3	79728	16	23637547	23637728	370.3	100.0
PALB2	NM_024675.3	79728	16	23640515	23640606	378.9	100.0
PALB2	NM_024675.3	79728	16	23640951	23641800	348.6	100.0
PALB2	NM_024675.3	79728	16	23646173	23647665	372.4	100.0
PALB2	NM_024675.3	79728	16	23649161	23649283	434.6	100.0
PALB2	NM_024675.3	79728	16	23649381	23649460	442.8	100.0
PALB2	NM_024675.3	79728	16	23652421	23652688	255.4	100.0
RAD51D	NM_002878.3	5892	17	33427961	33428065	278.6	100.0
RAD51D	NM_002878.3	5892	17	33428210	33428394	350.9	100.0
RAD51D	NM_002878.3	5892	17	33430263	33430353	349.6	100.0

RAD51D	NM_002878.3	5892	17	33430463	33430573	275.5	100.0
RAD51D	NM_002878.3	5892	17	33433395	33433510	255.6	100.0
RAD51D	NM_002878.3	5892	17	33433997	33434151	235.8	100.0
RAD51D	NM_002878.3	5892	17	33434375	33434476	288.3	100.0
RAD51D	NM_002878.3	5892	17	33445510	33445648	267.3	100.0
RAD51D	NM_002878.3	5892	17	33446120	33446201	251.7	100.0
RAD51D	NM_002878.3	5892	17	33446541	33446898	241.8	100.0
BRCA1	NM_007294.3	672	17	41197684	41197829	249.6	100.0
BRCA1	NM_007294.3	672	17	41199650	41199730	339.6	100.0
BRCA1	NM_007294.3	672	17	41201128	41201221	263.9	100.0
BRCA1	NM_007294.3	672	17	41203070	41203144	337.0	100.0
BRCA1	NM_007294.3	672	17	41209059	41209162	259.2	100.0
BRCA1	NM_007294.3	672	17	41215340	41215400	290.3	100.0
BRCA1	NM_007294.3	672	17	41215881	41215978	381.6	100.0
BRCA1	NM_007294.3	672	17	41219615	41219722	310.1	100.0
BRCA1	NM_007294.3	672	17	41222935	41223265	296.5	100.0
BRCA1	NM_007294.3	672	17	41226338	41226548	328.4	100.0
BRCA1	NM_007294.3	672	17	41228495	41228641	454.6	100.0
BRCA1	NM_007294.3	672	17	41234411	41234602	342.9	100.0
BRCA1	NM_007294.3	672	17	41242951	41243059	307.7	100.0
BRCA1	NM_007294.3	672	17	41243442	41246887	336.0	100.0
BRCA1	NM_007294.3	672	17	41247853	41247949	295.8	100.0
BRCA1	NM_007294.3	672	17	41249251	41249316	431.4	100.0
BRCA1	NM_007294.3	672	17	41251782	41251907	331.2	100.0
BRCA1	NM_007294.3	672	17	41256129	41256288	424.0	100.0
BRCA1	NM_007294.3	672	17	41256875	41256983	332.5	100.0
BRCA1	NM_007294.3	672	17	41258463	41258560	424.3	100.0
BRCA1	NM_007294.3	672	17	41267733	41267806	384.8	100.0
BRCA1	NM_007294.3	672	17	41276024	41276142	442.3	100.0
BRCA1	NM_007294.3	672	17	41277278	41277510	231.8	100.0
RAD51C	NM_058216.2	5889	17	56769924	56770159	238.5	100.0

RAD51C	NM_058216.2	5889	17	56772282	56772560	365.3	100.0
RAD51C	NM_058216.2	5889	17	56774044	56774230	379.2	100.0
RAD51C	NM_058216.2	5889	17	56780547	56780700	485.7	100.0
RAD51C	NM_058216.2	5889	17	56787210	56787361	450.6	100.0
RAD51C	NM_058216.2	5889	17	56798097	56798183	396.5	100.0
RAD51C	NM_058216.2	5889	17	56801391	56801471	374.5	100.0
RAD51C	NM_058216.2	5889	17	56809835	56809915	428.6	100.0
RAD51C	NM_058216.2	5889	17	56811469	56811594	333.2	100.0
BRIP1	NM_032043.2	83990	17	59760646	59761511	397.1	100.0
BRIP1	NM_032043.2	83990	17	59763187	59763536	379.3	100.0
BRIP1	NM_032043.2	83990	17	59770781	59770883	420.6	100.0
BRIP1	NM_032043.2	83990	17	59793302	59793434	398.4	100.0
BRIP1	NM_032043.2	83990	17	59820364	59820505	455.7	100.0
BRIP1	NM_032043.2	83990	17	59821783	59821962	412.8	100.0
BRIP1	NM_032043.2	83990	17	59853752	59853933	414.8	100.0
BRIP1	NM_032043.2	83990	17	59857612	59857772	401.3	100.0
BRIP1	NM_032043.2	83990	17	59858191	59858376	436.0	100.0
BRIP1	NM_032043.2	83990	17	59861621	59861795	465.5	100.0
BRIP1	NM_032043.2	83990	17	59870948	59871100	464.6	100.0
BRIP1	NM_032043.2	83990	17	59876451	59876670	347.6	100.0
BRIP1	NM_032043.2	83990	17	59878604	59878845	388.1	100.0
BRIP1	NM_032043.2	83990	17	59885818	59886128	341.7	100.0
BRIP1	NM_032043.2	83990	17	59924452	59924591	506.2	100.0
BRIP1	NM_032043.2	83990	17	59926480	59926627	436.7	100.0
BRIP1	NM_032043.2	83990	17	59934409	59934602	379.1	100.0
BRIP1	NM_032043.2	83990	17	59937147	59937278	405.5	100.0
BRIP1	NM_032043.2	83990	17	59938798	59938940	469.6	100.0
BRIP1	NM_032043.2	83990	17	59940635	59940930	275.9	100.0