

ForeSENTIA GENES AND GENETIC ALTERATIONS TESTED PER PANEL































GENES TESTED

The following table indicates the genes tested per panel.

Pan-Cancer Core 80 genes	AKT1, ALK, APC, AR, ARAF, ATM, ATRX, BARD1, BRAF, BRCA1, BRCA2, BRIP1, CDH1, CDKN2A, CHEK2, CIC, CTNNB1, DDR2, DICER1, EGFR, ERBB2, ERBB3, ERBB4, ESR1, FBXW7, FGFR1, FGFR2, FGFR3, FLT3, FOXA1, FOXL2, FUBP1, GATA3, GNA11, GNAQ, GNAS, H3F3A, IDH1, IDH2, JAK2, KEAP1, KIT, KRAS, MAP2K1, MAP3K1, MET, MLH1, MRE11, MSH2, MSH6, MTOR, MYC, MYCN, NBN, NF1, NPM1, NRAS, NTRK1, NTRK2, NTRK3, PALB2, PDGFRA, PIK3CA, PIK3CB, PMS2, POLE, PTEN, RAD51C, RAD51D, RAF1, RB1, RET, ROS1, RUNX1, SMAD4, SPOP, STK11, TERT, TMRSS2, TP53, 1p/19q codeletion
Breast/Gynecological 48 genes	AKT1, ATM, BARD1, BRAF, BRCA1, BRCA2, BRIP1, CHEK2, CTNNB1, DICER1, EGFR, ERBB2, ERBB3, ESR1, FBXW7, FGFR1, FGFR2, FGFR3, FOXA1, FOXL2, GATA3, KIT, KRAS, MAP3K1, MET, MLH1, MRE11, MSH2, MSH6, MTOR, NBN, NRAS, NTRK1, NTRK2, NTRK3, PALB2, PIK3CA, PIK3CB, PMS2, POLE, PTEN, RAD51C, RAD51D, RAF1, RET, RUNX1, SMAD4, TP53
Colorectal 34 genes	AKT1, APC, ATM, BRAF, BRCA1, BRCA2, CTNNB1, EGFR, ERBB2, FBXW7, FGFR1, FGFR2, FGFR3, GNAS, KRAS, MET, MLH1, MSH2, MSH6, MTOR, NRAS, NTRK1, NTRK2, NTRK3, PALB2, PDGFRA, PIK3CA, PIK3CB, PMS2, POLE, PTEN, RAF1, SMAD4, TP53
Glioma 22 genes	ATRX, BRAF, CDKN2A, CIC, CTNNB1, EGFR, FGFR3, FUBP1, H3F3A, IDH1, IDH2, MET, MYC, MYCN, NF1, NTRK1, NTRK2, NTRK3, POLE, PTEN, TERT, TP53, 1p/19q codeletion
Lung (NSCLC) 36 genes	AKT1, ALK, APC, ARAF, ATM, BRAF, BRCA2, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, ERBB4, FBXW7, FGFR1, FGFR2, FGFR3, JAK2, KEAP1, KRAS, MAP2K1, MET, NRAS, NTRK1, NTRK2, NTRK3, PDGFRA, PIK3CA, POLE, PTEN, RAF1, RET, ROS1, SMAD4, STK11, TP53
Melanoma 22 genes	AKT1, ALK, BRAF, CTNNB1, ERBB2, GNA11, GNAQ, KIT, KRAS, MAP2K1, MYC, NF1, NRAS, NTRK1, NTRK2, NTRK3, PIK3CA, POLE, PTEN, RET, ROS1, TP53
Prostate 36 genes	AKT1, APC, AR, ATM, BARD1, BRAF, BRCA1, BRCA2, CHEK2, CTNNB1, ERBB2, FGFR1, FGFR2, FGFR3, FOXA1, MLH1, MSH2, MSH6, MYC, MYCN, NRAS, NTRK1, NTRK2, NTRK3, PALB2, PIK3CA, PIK3CB, PMS2, POLE, PTEN, RAD51C, RAD51D, RB1, SPOP, TMRSS2, TP53

GENETIC ALTERATIONS TESTED IN PAN-CANCER CORE PANEL

The following table shows the types of genetic alterations and coding exon coverage for each gene.

AKT1 Exon 4 (NM_001382430.1) 	ALK Exons 18-20, 22-23 (NM_004304.5) Selected non-coding regions covered  	APC Full exonic coverage (NM_000038.6) Selected non-coding regions covered 	AR Exons 1-2, 4-8 (NM_000044.6) Selected non-coding regions covered  	ARAF Exon 7 (NM_001654.5) 	ATM Full exonic coverage (NM_000051.4) Selected non-coding regions covered 
ATRX Exons 5, 7, 9, 11, 13-14, 17, 20-22, 29-31, 35 (NM_000489.6) 	BARD1 Full exonic coverage (NM_000465.4) Selected non-coding regions covered 	BRAF Exons 9-12, 15 (NM_004333.6) Selected non-coding regions covered  	BRCA1 Full exonic coverage (NM_007294.4) Selected non-coding regions covered 	BRCA2 Full exonic coverage (NM_000059.4) Selected non-coding regions covered 	BRIP1 Full exonic coverage (NM_032043.3) Selected non-coding regions covered 
CDH1 Full exonic coverage (NM_004360.5) Selected non-coding regions covered 	CDKN2A Full exonic coverage (NM_000077.5) (NM_058195.4) Selected non-coding regions covered 	CHEK2 Exons 1-10 (NM_007194.4) Selected non-coding regions covered 	CIC Exon 19, 21 (NM_0015125.4) 	CTNNB1 Exon 3 (NM_001904.4) 	DDR2 Exon 17 (NM_006182.4) 
DICER1 Exons 2-26 (NM_177438.3) 	EGFR Exons 2-5, 8-10, 12, 14-15, 17-24, 27-28 (NM_005228.5)  	ERBB2 Exons 3-4, 7-8, 10, 19-24 (NM_004448.4) Selected non-coding regions covered  	ERBB3 Exons 3, 6-11, 20-21 (NM_001982.4) 	ERBB4 Exons 7, 15, 19, 23 (NM_005235.3) 	ESR1 Exons 2-5, 7-8 (NM_000125.4) Selected non-coding regions covered  

Selected non-coding regions which are covered by the test are indicated above.

FS_PNC_ET_7

 Single Nucleotide Variant / Indels  Copy Number Alterations  Rearrangements

FBXW7 Exons 6-7, 9-14 (NM_001349798.2) ▲	FGFR1 Exon 5-9, 12-13, 16, 18 (NM_023110.3) Selected non-coding regions covered ●	FGFR2 Exons 2-9, 11, 13-18 (NM_000141.5) Selected non-coding regions covered ●	FGFR3 Exons 4, 7-8, 11-12, 16-18 (NM_000142.5) Selected non-coding regions covered ● ■	FLT3 Exon 20 (NM_004119.3) ▲	FOXA1 Exon 2 (NM_004496.5) ▲
FOXL2 Exon 1 (NM_023067.4) ▲	FUBP1 Exon 14 (NM_003902.5) ▲	GATA3 Exons 5-6 (NM_001002295.2) ▲	GNA11 Exons 4-5 (NM_002067.5) ▲	GNAQ Exons 5, 7 (NM_002072.5) ▲	GNAS Exon 8 (NM_000516.7) ▲
H3F3A Exon 2 (NM_002107.7) ▲	IDH1 Exon 4 (NM_005896.4) ▲	IDH2 Exon 4 (NM_002168.4) ▲	JAK2 Exon 14 (NM_004972.4) ▲	KEAP1 Exons 2-4 (NM_203500.2) ▲	KIT Exons 2-21 (NM_000222.3) ▲ ●
KRAS Exons 2-4 (NM_004985.5) ▲ ●	MAP2K1 Exons 2-3, 6-7 (NM_002755.4) ▲	MAP3K1 Exons 5-6, 16-18 (NM_005921.2) ▲	MET Exons 2-21 (NM_000245.4) ▲ ●	MLH1 Full exonic coverage (NM_000249.4) Selected non-coding regions covered ▲	MRE11 Exons 1-18, 20 (NM_005591.4) Selected non-coding regions covered ▲
MSH2 Full exonic coverage (NM_000251.3) Selected non-coding regions covered ▲	MSH6 Full exonic coverage (NM_000179.3) ▲	MTOR Exons 43, 47, 53, 56 (NM_004958.4) ▲	MYC Exons 1, 3 (NM_002467.6) ●	MYCN Exon 3 (NM_005378.6) ●	NBN Full exonic coverage (NM_002485.5) ▲
NF1 Exons 6, 12, 17-18, 21-22, 25, 27-28, 34, 37, 40, 44-47, 49, 53 (NM_001042492.3) ▲	NPM1 Exon 11 (NM_0002520.7) ▲	NRAS Exons 2-4 (NM_0002524.5) ▲	NTRK1 Exons 7-15 (NM_002529.4) Selected non-coding regions covered ▲ ■	NTRK2 Exons 10-11, 13-14 (NM_006180.6) Selected non-coding regions covered ■	NTRK3 Exons 14-15 (NM_001012338.3) Selected non-coding regions covered ■
PALB2 Full exonic coverage (NM_004675.4) Selected non-coding regions covered ▲	PDGFRA Exon 18 (NM_006206.6) ▲	PIK3CA Exons 2-6, 8, 10, 15-17, 19-21 (NM_006218.4) ▲ ●	PIK3CB Exons 13, 15, 24 (NM_006219.3) ▲	PMS2 Exons 6-8, 10 (NM_000535.7) ▲	POLE Exons 2-49 (NM_006231.4) Selected non-coding regions covered ▲
PTEN Full exonic coverage (NM_000314.8) Selected non-coding regions covered ▲ ●	RAD51C Full exonic coverage (NM_058216.3) Selected non-coding regions covered ▲	RAD51D Full exonic coverage (NM_002878.4) Selected non-coding regions covered ▲	RAF1 Exon 7 (NM_002880.4) ▲	RB1 Exons 1-13, 16-27 (NM_000321.3) Selected non-coding regions covered ●	RET Full exonic coverage (NM_020975.6) Selected non-coding regions covered ▲ ■
ROS1 Exons 32-37 (NM_001378902.1) Selected non-coding regions covered ■	RUNX1 Exon 5 (NM_001754.4) ▲	SMAD4 Full exonic coverage (NM_005359.6) Selected non-coding regions covered ▲	SPOP Exons 4-5 (NM_001007228.2) ▲	STK11 Full exonic coverage (NM_000455.5) Selected non-coding regions covered ▲	TERT Exon 1 (NM_198253.3) Selected non-coding regions covered ▲
TMPRSS2 Exons 2-4 (NM_005656.4) Selected non-coding regions covered ■	TP53 Full exonic coverage (NM_000546.6) Selected non-coding regions covered ▲ ●	1p/19q co-deletion ●			

Selected non-coding regions which are covered by the test are indicated above.
























































▲ Single Nucleotide Variant / Indels

● Copy Number Alterations

■ Rearrangements

GENETIC ALTERATIONS TESTED IN BREAST/GYNECOLOGICAL PANEL

The following table shows the types of genetic alterations and coding exon coverage for each gene.

AKT1 Exon 4 (NM_001382430.1) 	ATM Full exonic coverage (NM_000051.4) Selected non-coding regions covered 	BARD1 Full exonic coverage (NM_000465.4) Selected non-coding regions covered 	BRAF Exons 9-12, 15 (NM_004333.6) Selected non-coding regions covered 	BRCA1 Full exonic coverage (NM_007294.4) Selected non-coding regions covered 	BRCA2 Full exonic coverage (NM_000059.4) Selected non-coding regions covered 
BRIP1 Full exonic coverage (NM_032043.3) Selected non-coding regions covered 	CHEK2 Exons 1-10 (NM_007194.4) Selected non-coding regions covered 	CTNNB1 Exon 3 (NM_001904.4) 	DICER1 Exons 2-26 (NM_177438.3) 	EGFR Exons 2-5, 8-10, 12, 14-15, 17-24, 27-28 (NM_005228.5)  	ERBB2 Exons 3-4, 7-8, 10, 19-24 (NM_004448.4) Selected non-coding regions covered  
ERBB3 Exons 3, 6-11, 20-21 (NM_001982.4) 	ESR1 Exons 2-5, 7-8 (NM_000125.4) Selected non-coding regions covered  	FBXW7 Exons 6-7, 9-14 (NM_001349798.2) 	FGFR1 Exon 5-9, 12-13, 16, 18 (NM_023110.3) 	FGFR2 Exons 2-9, 11, 13-18 (NM_000141.5) 	FGFR3 Exons 4, 7-8, 11-12, 16-18 (NM_000142.5) 
FOXA1 Exon 2 (NM_004496.5) 	FOXL2 Exon 1 (NM_023067.4) 	GATA3 Exons 5-6 (NM_001002295.2) 	KIT Exons 2-21 (NM_000222.3) 	KRAS Exons 2-4 (NM_004985.5)  	MAP3K1 Exons 5-6, 16-18 (NM_005921.2) 
MET Exons 2-21 (NM_000245.4) 	MLH1 Full exonic coverage (NM_000249.4) Selected non-coding regions covered 	MRE11 Exons 1-18, 20 (NM_005591.4) 	MSH2 Full exonic coverage (NM_000251.3) Selected non-coding regions covered 	MSH6 Full exonic coverage (NM_000179.3) 	MTOR Exons 43, 47, 53, 56 (NM_004958.4) 
NBN Full exonic coverage (NM_002485.5) 	NRAS Exons 2-4 (NM_002524.5) 	NTRK1 Exons 7-15 (NM_002529.4) Selected non-coding regions covered 	NTRK2 Exons 10-11, 13-14 (NM_006180.6) Selected non-coding regions covered 	NTRK3 Exons 14-15 (NM_001012338.3) Selected non-coding regions covered 	PALB2 Full exonic coverage (NM_024675.4) Selected non-coding regions covered 
PIK3CA Exons 2-6, 8, 10, 15-17, 19-21 (NM_006218.4)  	PIK3CB Exons 13, 15, 24 (NM_006219.3) 	PMS2 Exons 6-8, 10 (NM_000535.7) 	POLE Exons 2-49 (NM_006231.4) Selected non-coding regions covered 	PTEN Full exonic coverage (NM_000314.8) Selected non-coding regions covered  	RAD51C Full exonic coverage (NM_058216.3) 
RAD51D Full exonic coverage (NM_002878.4) Selected non-coding regions covered 	RAF1 Exon 7 (NM_002880.4) 	RET Full exonic coverage (NM_020975.6) Selected non-coding regions covered 	RUNX1 Exon 5 (NM_001754.4) 	SMAD4 Full exonic coverage (NM_005359.6) Selected non-coding regions covered 	TP53 Full exonic coverage (NM_000546.6) Selected non-coding regions covered  

Selected non-coding regions which are covered by the test are indicated above.







































 Single Nucleotide Variant / Indels

 Copy Number Alterations

 Rearrangements

GENETIC ALTERATIONS TESTED IN COLORECTAL PANEL

The following table shows the types of genetic alterations and coding exon coverage for each gene.

AKT1 Exon 4 <small>(NM_001382430.1)</small> 	APC Full exonic coverage <small>(NM_000038.6)</small> Selected non-coding regions covered 	ATM Full exonic coverage <small>(NM_000051.4)</small> Selected non-coding regions covered 	BRAF Exons 9-12, 15 <small>(NM_004333.6)</small> Selected non-coding regions covered 	BRCA1 Full exonic coverage <small>(NM_007294.4)</small> Selected non-coding regions covered 	BRCA2 Full exonic coverage <small>(NM_000059.4)</small> Selected non-coding regions covered 
CTNNB1 Exon 3 <small>(NM_001904.4)</small> 	EGFR Exons 2-5, 8-10, 12, 14-15, 17-24, 27-28 <small>(NM_005228.5)</small>  	ERBB2 Exons 3-4, 7-8, 10, 19-24 <small>(NM_004448.4)</small> Selected non-coding regions covered  	FBXW7 Exons 6-7, 9-14 <small>(NM_001349798.2)</small> 	FGFR1 Exon 5-9, 12-13, 16, 18 <small>(NM_023110.3)</small> Selected non-coding regions covered 	FGFR2 Exons 2-9, 11, 13-18 <small>(NM_000141.5)</small> Selected non-coding regions covered 
FGFR3 Exons 4, 7-8, 11-12, 16-18 <small>(NM_000142.5)</small> Selected non-coding regions covered 	GNAS Exon 8 <small>(NM_000516.7)</small> 	KRAS Exons 2-4 <small>(NM_004985.5)</small>  	MET Exons 2-21 <small>(NM_000245.4)</small> 	MLH1 Full exonic coverage <small>(NM_000249.4)</small> Selected non-coding regions covered 	MSH2 Full exonic coverage <small>(NM_000251.3)</small> 
MSH6 Full exonic coverage <small>(NM_000179.3)</small> 	MTOR Exons 43, 47, 53, 56 <small>(NM_004958.4)</small> 	NRAS Exons 2-4 <small>(NM_00524.5)</small> 	NTRK1 Exons 7-15 <small>(NM_002529.4)</small> Selected non-coding regions covered  	NTRK2 Exons 10-11, 13-14 <small>(NM_006180.6)</small> Selected non-coding regions covered 	NTRK3 Exons 14-15 <small>(NM_001012338.3)</small> Selected non-coding regions covered 
PALB2 Full exonic coverage <small>(NM_024675.4)</small> Selected non-coding regions covered 	PDGFRA Exon 18 <small>(NM_006206.6)</small> 	PIK3CA Exons 2-6, 8, 10, 15-17, 19-21 <small>(NM_006218.4)</small> 	PIK3CB Exons 13, 15, 24 <small>(NM_006219.3)</small> 	PMS2 Exons 6-8, 10 <small>(NM_000535.7)</small> 	POLE Exons 2-49 <small>(NM_006231.4)</small> Selected non-coding regions covered 
PTEN Full exonic coverage <small>(NM_000314.8)</small> Selected non-coding regions covered 	RAF1 Exon 7 <small>(NM_002880.4)</small> 	SMAD4 Full exonic coverage <small>(NM_005359.6)</small> Selected non-coding regions covered 	TP53 Full exonic coverage <small>(NM_000546.6)</small> Selected non-coding regions covered  		

Selected non-coding regions which are covered by the test are indicated above.


























 Single Nucleotide Variant / Indels

 Copy Number Alterations

 Rearrangements


GENETIC ALTERATIONS TESTED IN GLIOMA PANEL

The following table shows the types of genetic alterations and coding exon coverage for each gene.

ATRX Exons 5, 7, 9, 11, 13-14, 17, 20-22, 29-31, 35 (NM_000489.6) 	BRAF Exons 9-12, 15 (NM_004333.6) Selected non-coding regions covered  	CDKN2A Full exonic coverage (NM_000077.5) (NM_058195.4) Selected non-coding regions covered 	CIC Exon 19, 21 (NM_0015125.4) 	CTNNB1 Exon 3 (NM_001904.4) 	EGFR Exons 2-5, 8-10, 12, 14-15, 17-24, 27-28 (NM_005228.5)  
FGFR3 Exons 4, 7-8, 11-12, 16-18 (NM_000142.5) Selected non-coding regions covered 	FUBP1 Exon 14 (NM_003902.5) 	H3F3A Exon 2 (NM_002107.7) 	IDH1 Exon 4 (NM_005896.4) 	IDH2 Exon 4 (NM_002168.4) 	MET Exons 2-21 (NM_000245.4) 
MYC Exons 1, 3 (NM_002467.6) 	MYCN Exon 3 (NM_005378.6) 	NF1 Exons 6, 12, 17-18, 21-22, 25, 27-28, 34, 37, 40, 44-47, 49, 53 (NM_001042492.3) 	NTRK1 Exons 7-15 (NM_002529.4) Selected non-coding regions covered 	NTRK2 Exons 10-11, 13-14 (NM_006180.6) Selected non-coding regions covered 	NTRK3 Exons 14-15 (NM_001012338.3) Selected non-coding regions covered 
POLE Exons 2-49 (NM_006231.4) Selected non-coding regions covered 	PTEN Full exonic coverage (NM_000314.8) Selected non-coding regions covered 	TERT Exon 1 (NM_198253.3) Selected non-coding regions covered 	TP53 Full exonic coverage (NM_000546.6) Selected non-coding regions covered 	1p/19q codeletion 	

Selected non-coding regions which are covered by the test are indicated above.













































 Single Nucleotide Variant / Indels

 Copy Number Alterations

 Rearrangements

GENETIC ALTERATIONS TESTED IN LUNG (NSCLC) PANEL

The following table shows the types of genetic alterations and coding exon coverage for each gene.

AKT1 Exon 4 <small>(NM_001382430.1)</small> 	ALK Exons 18-20, 22-23 <small>(NM_004304.5)</small> <i>Selected non-coding regions covered</i>  	APC Full exonic coverage <small>(NM_000038.6)</small> <i>Selected non-coding regions covered</i> 	ARAF Exon 7 <small>(NM_001654.5)</small> 	ATM Full exonic coverage <small>(NM_000051.4)</small> <i>Selected non-coding regions covered</i> 	BRAF Exons 9-12, 15 <small>(NM_004333.6)</small> <i>Selected non-coding regions covered</i> 
BRCA2 Full exonic coverage <small>(NM_000059.4)</small> <i>Selected non-coding regions covered</i> 	CTNNB1 Exon 3 <small>(NM_001904.4)</small> 	DDR2 Exon 17 <small>(NM_006182.4)</small> 	EGFR Exons 2-5, 8-10, 12, 14-15, 17-24, 27-28 <small>(NM_005228.5)</small>  	ERBB2 Exons 3-4, 7-8, 10, 19-24 <small>(NM_004448.4)</small> <i>Selected non-coding regions covered</i>  	ERBB3 Exons 3, 6-11, 20-21 <small>(NM_001982.4)</small> 
ERBB4 Exons 7, 15, 19, 23 <small>(NM_005235.3)</small> 	FBXW7 Exons 6-7, 9-14 <small>(NM_001349798.2)</small> 	FGFR1 Exon 5-9, 12-13, 16, 18 <small>(NM_0023110.3)</small> <i>Selected non-coding regions covered</i> 	FGFR2 Exons 2-9, 11, 13-18 <small>(NM_000141.5)</small> <i>Selected non-coding regions covered</i> 	FGFR3 Exons 4, 7-8, 11-12, 16-18 <small>(NM_000142.5)</small>  	JAK2 Exon 14 <small>(NM_004972.4)</small> 
KEAP1 Exons 2-4 <small>(NM_203500.2)</small> 	KRAS Exons 2-4 <small>(NM_004985.5)</small> 	MAP2K1 Exons 2-3, 6-7 <small>(NM_002755.4)</small> 	MET Exons 2-21 <small>(NM_000245.4)</small>  	NRAS Exons 2-4 <small>(NM_002524.5)</small> 	NTRK1 Exons 7-15 <small>(NM_002529.4)</small> <i>Selected non-coding regions covered</i> 
NTRK2 Exons 10-11, 13-14 <small>(NM_006180.6)</small> <i>Selected non-coding regions covered</i> 	NTRK3 Exons 14-15 <small>(NM_001012338.3)</small> <i>Selected non-coding regions covered</i> 	PDGFRA Exon 18 <small>(NM_006206.6)</small> 	PIK3CA Exons 2-6, 8, 10, 15-17, 19-21 <small>(NM_006218.4)</small>  	POLE Exons 2-49 <small>(NM_006231.4)</small> <i>Selected non-coding regions covered</i> 	PTEN Full exonic coverage <small>(NM_000314.8)</small> <i>Selected non-coding regions covered</i>  
RAF1 Exon 7 <small>(NM_002880.4)</small> 	RET Full exonic coverage <small>(NM_020975.6)</small> <i>Selected non-coding regions covered</i> 	ROS1 Exons 32-37 <small>(NM_001378902.1)</small> <i>Selected non-coding regions covered</i> 	SMAD4 Full exonic coverage <small>(NM_005359.6)</small> <i>Selected non-coding regions covered</i> 	STK11 Full exonic coverage <small>(NM_000455.5)</small> <i>Selected non-coding regions covered</i> 	TP53 Full exonic coverage <small>(NM_000546.6)</small> <i>Selected non-coding regions covered</i>  

Selected non-coding regions which are covered by the test are indicated above.




























 Single Nucleotide Variant / Indels

 Copy Number Alterations

 Rearrangements


GENETIC ALTERATIONS TESTED IN MELANOMA PANEL

The following table shows the types of genetic alterations and coding exon coverage for each gene.

AKT1 Exon 4 (NM_001382430.1) 	ALK Exons 18-20, 22-23 (NM_004304.5) Selected non-coding regions covered 	BRAF Exons 9-12, 15 (NM_004333.6) Selected non-coding regions covered  	CTNNB1 Exon 3 (NM_001904.4) 	ERBB2 Exons 3-4, 7-8, 10, 19-24 (NM_004448.4) Selected non-coding regions covered  	GNA11 Exons 4-5 (NM_002067.5) 
GNAQ Exons 5, 7 (NM_002072.5) 	KIT Exons 2-21 (NM_002222.3)  	KRAS Exons 2-4 (NM_004985.5)  	MAP2K1 Exons 2-3, 6-7 (NM_002755.4) 	MYC Exons 1, 3 (NM_002467.6) 	NF1 Exons 6, 12, 17-18, 21-22, 25, 27-28, 34, 37, 40, 44-47, 49, 53 (NM_001042492.3) 
NRAS Exons 2-4 (NM_002524.5) 	NTRK1 Exons 7-15 (NM_002529.4) Selected non-coding regions covered 	NTRK2 Exons 10-11, 13-14 (NM_006180.6) Selected non-coding regions covered 	NTRK3 Exons 14-15 (NM_001012338.3) Selected non-coding regions covered 	PIK3CA Exons 2-6, 8, 10, 15-17, 19-21 (NM_006218.4) 	POLE Exons 2-49 (NM_006231.4) Selected non-coding regions covered 
PTEN Full exonic coverage (NM_000314.8) Selected non-coding regions covered 	RET Full exonic coverage (NM_020975.6) Selected non-coding regions covered 	ROS1 Exons 32-37 (NM_001378902.1) Selected non-coding regions covered 	TP53 Full exonic coverage (NM_000546.6) Selected non-coding regions covered  		

Selected non-coding regions which are covered by the test are indicated above.









































 Single Nucleotide Variant / Indels

 Copy Number Alterations

 Rearrangements

GENETIC ALTERATIONS TESTED IN PROSTATE PANEL

The following table shows the types of genetic alterations and coding exon coverage for each gene.

AKT1 Exon 4 (NM_001382430.1) Selected non-coding regions covered 	APC Full exonic coverage (NM_000038.6) Selected non-coding regions covered 	AR Exons 1-2, 4-8 (NM_000044.6) Selected non-coding regions covered  	ATM Full exonic coverage (NM_000051.4) Selected non-coding regions covered 	BARD1 Full exonic coverage (NM_000448.4) Selected non-coding regions covered 	BRAF Exons 9-12, 15 (NM_004333.6) Selected non-coding regions covered 
BRCA1 Full exonic coverage (NM_007294.4) Selected non-coding regions covered 	BRCA2 Full exonic coverage (NM_000059.4) Selected non-coding regions covered 	CHEK2 Exons 1-10 (NM_007194.4) Selected non-coding regions covered 	CTNNB1 Exon 3 (NM_001904.4) Selected non-coding regions covered 	ERBB2 Exons 3-4, 7-8, 10, 19-24 (NM_004448.4) Selected non-coding regions covered 	FGFR1 Exon 5-9, 12-13, 16, 18 (NM_023110.3) Selected non-coding regions covered 
FGFR2 Exons 2-9, 11, 13-18 (NM_000141.5) Selected non-coding regions covered 	FGFR3 Exons 4, 7-8, 11-12, 16-18 (NM_000142.5) Selected non-coding regions covered 	FOXA1 Exon 2 (NM_004496.5) Selected non-coding regions covered 	MLH1 Full exonic coverage (NM_000249.4) Selected non-coding regions covered 	MSH2 Full exonic coverage (NM_000251.3) Selected non-coding regions covered 	MSH6 Full exonic coverage (NM_000179.3) Selected non-coding regions covered 
MYC Exons 1, 3 (NM_002467.6) Selected non-coding regions covered 	MYCN Exon 3 (NM_005378.6) Selected non-coding regions covered 	NRAS Exons 2-4 (NM_005254.5) Selected non-coding regions covered 	NTRK1 Exons 7-15 (NM_002529.4) Selected non-coding regions covered 	NTRK2 Exons 10-11, 13-14 (NM_006180.6) Selected non-coding regions covered 	NTRK3 Exons 14-15 (NM_001012338.3) Selected non-coding regions covered 
PALB2 Full exonic coverage (NM_024675.4) Selected non-coding regions covered 	PIK3CA Exons 2-6, 8, 10, 15-17, 19-21 (NM_006218.4) Selected non-coding regions covered  	PIK3CB Exons 13, 15, 24 (NM_006219.3) Selected non-coding regions covered 	PMS2 Exons 6-8, 10 (NM_000535.7) Selected non-coding regions covered 	POLE Exons 2-49 (NM_006231.4) Selected non-coding regions covered 	PTEN Full exonic coverage (NM_000314.8) Selected non-coding regions covered  
RAD51C Full exonic coverage (NM_058216.3) Selected non-coding regions covered 	RAD51D Full exonic coverage (NM_002878.4) Selected non-coding regions covered 	RB1 Exons 1-13, 16-27 (NM_000321.3) Selected non-coding regions covered 	SPOP Exons 4-5 (NM_001007228.2) Selected non-coding regions covered 	TMPRSS2 Exons 2-4 (NM_005656.4) Selected non-coding regions covered 	TP53 Full exonic coverage (NM_000546.6) Selected non-coding regions covered  

Selected non-coding regions which are covered by the test are indicated above.

 Single Nucleotide Variant / Indels

 Copy Number Alterations

 Rearrangements