**Resequencing Gene List**

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| **Gene Symbol** | **Exons** | **Coverage** | **Cost/Sample** | **Amplicons** |
| ALK | Exon 25 (R1275Q) | selected SNPs | 20 | 1 |
| AKT1 | Exon 4 (E17K) | selected SNPs | 20 | 1 |
| AURKA | 1, 3-11, UTR (3') | selected exons | 280 | 14 |
| BRAF | Exon 15 (V600E) | selected SNPs | 20 | 1 |
| BRCA1 | 1-24, a\*, UTR (5') | all transcripts | 882 | 42 |
| BRCA2 | 1-28 | all transcripts | 1134 | 54 |
| CDK4 | Exon 2 (R24C) | selected SNPs | 20 | 1 |
| CHEK2 | 1-18 | full coding - select transcript | 0 |  |
| Dip2C | 2-37 | selected exons | 700 | 35 |
| EGFR | 18-21 | selected exons | 80 | 4 |
| FBXW7 (a.k.a. CDC4) | Exons 8 (R465C), 10 (R505C) and 11 (S582L) | selected SNPs | 60 | 3 |
| FGFR3 | Exon 8 (G370C and S371C) | selected SNPs | 40 | 2 |
| FLT1 | 17-26 | selected exons | 200 | 10 |
| FLT4 | 17-26 | selected exons | 200 | 10 |
| GAL3 | 1, 4\*\* | selected exons | 40 | 2 |
| HRAS+ | 1-4, 4a | selected exons | 100 | 5 |
| ID1 | 1 | all transcripts | 80 | 4 |
| KIT (a.k.a. c-KIT) | Exon 13 (K642E) | selected SNPs | 20 | 1 |
| KRAS | 2-6 | all transcripts | 100 | 5 |
| LKB11/STK11a | 1, 4-8 | select transcript | 100 | 5 |
| MDM2 | 1-4, 4a, 5-11 | all transcripts | 240 | 12 |
| mP53 (mouse) | 1-11 | all transcripts | 140 | 7 |
| mPTEN (mouse) | 1-9, UTR (5' and 3') | all transcripts | 460 | 23 |
| NHERF-2 | Exon 3 (R171W) | selected SNPs | 20 | 1 |
| Tumor Suppressor  P53 | P53 | 1-12, UTR (5'&3') | all CCDS transcripts, exons + UTR = $343 | 16 |
| Exons 1-12 | exons only = $257 | 12 |
| Transcript TP53-001 or TP53-002 | exons + UTR = $321 | 15 |
| Transcript TP53-001 or TP53-002 | exons only = $236 | 11 |
| Transcript TP53-004 or TP53-005 | exons + UTR = $343 | 16 |
| Transcript TP53-004 or TP53-005 | exons only = $214 | 10 |
| PHLLPP2 | Exon 18 (L1016S) | selected SNPs | 20 | 1 |
| PIK3CA | 2, 8 | selected exons | 60 | 3 |
| PIK3R1 | 1-15 | full coding - select transcript | 280 | 14 |
| PIK3R2 | 1-15, 5' regulatory | full coding | 340 | 17 |
| PRKAG2 | Exon 15 (R531Q) | selected SNPs | 20 | 1 |
| PTCH1 | 1-23, UTR (3') | full coding - select transcript | 640 | 32 |
| PTEN | 1-9 | all transcripts | 190 | 9 |
| SART1 | 1-22 | all transcripts | 220 | 11 |
| SNON (SK1L) | 1, 4 | selected exons | 80 | 4 |
| SRC | 1-12 | all transcripts | 195 | 9 |
| TRK2 | 4-21 | full coding - select transcript | 340 | 17 |
| UBCH10 | 1-5 | all transcripts | 100 | 5 |
| VEGFA (a.k.a. VPF) | Promoter (partial) | selected exons | 60 | 3 |
| VBP1 | 1-6 | all transcripts | 160 | 8 |
| VHL | 1-3, UTR | full coding - select transcript | 120 | 6 |