

Variant List – iPLEX® HS Colon Panel v2 (RUO)

| Gene | Nucleotide Change | Amino Acid Change | COSMIC ID | Genomic Mutation ID |
|------|------------------------|-------------------|-------------|-------------------------------|
| BRAF | c.1781A>G | p.D594G | 467 | 0.06 in |
| BRAF | c.1406G>A | p.G469E | 461 | COSV56065622 |
| BRAF | c.1799T>A | p.V600E | 476 | COSV56056643 |
| EGFR | c.1476C>A/G | p.S492R | 236670 | COSV51769792 |
| EGFR | c.1474A>C | p.S492R | 236671 | COSV51811159 |
| KRAS | c.437C>G | p.A146G | NA | |
| KRAS | c.436G>C | p.A146P | 19905 | COSV55541748 |
| KRAS | c.436G>A | p.A146T | 19404 | COSV55501778 |
| KRAS | c.437C>T | p.A146V | 19900 | COSV55498939 |
| KRAS | c.176C>A | p.A59E | 547 | COSV55568979 |
| KRAS | c.176C>G | p.A59G | 28518 | COSV55604554 |
| KRAS | c.175G>T | p.A59S | 1235389 | COSV55796966 |
| KRAS | c.175G>A | p.A59T | 546 | COSV55499283 |
| KRAS | c.35G>C | p.G12A | 522 | COSV55497479 |
| KRAS | c.34_36GGT>GCA/GCC/GCG | p.G12A | 5413585 | COSV56089633 |
| KRAS | c.34G>T | p.G12C | 516 | COSV55497469 |
| KRAS | c.35G>A | p.G12D | 521 | COSV55497369 |
| KRAS | c.34_36GGT>GAC | p.G12D | 14209 | COSV55865099 |
| KRAS | c.34_36GGT>GAG/GAA | p.G12E | 30566/519 | COSV55981231/ COSV55901113 |
| KRAS | c.34_36GGG>TTT | p.G12F | 512 | COSV55505818 |
| KRAS | c.34_36GGT>CAT | p.G12H | 55870110 | COSV55870110 |
| KRAS | c.34_36GGG>ATT | p.G12I | 34144 | COSV55560425 |
| KRAS | c.34_36GGT>CTT | p.G12L | 514 | COSV55573070 |
| KRAS | c.34_36GGT>AAT | p.G12N | 13643 | COSV55721374 |
| KRAS | c.34_36GGT>CCT | p.G12P | NA | NA |
| KRAS | c.34G>C | p.G12R | 518 | COSV55497582 |
| KRAS | c.34G>A | p.G12S | 517 | COSV55497461 |
| KRAS | c.34_36GGT>TCT | p.G12S | 6959652 | COSV55528088 |
| KRAS | c.34_36GGT>ACT | p.G12T | NA | NA |
| KRAS | c.34_36GGT>GTA/GTC/GTG | p.G12V | 515/4387521 | COSV55556696/ COSV55588774 |
| KRAS | c.35G>T | p.G12V | 520 | COSV55497419 |
| KRAS | c.36T>A/C/G | p.G12X | NA | COSV55593923 |
| KRAS | c.34_36GGT>TAT | p.G12Y | 25081 | COSV55518031 |
| KRAS | c.38G>C | p.G13A | 533 | COSV55497357 |
| KRAS | c.37G>T | p.G13C | 527 | COSV55497378 |
| KRAS | c.38G>A | p.G13D | 532 | COSV55497388 |
| KRAS | c.37_39GGC>TTC | p.G13F | 1685355 | COSV55566129 |

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| KRAS | c.37_39GGC>CAC | p.G13H | 536 | COSV55756103 |
| KRAS | c.37_39GGC>ATC | p.G13I | 525 | COSV56156149 |
| KRAS | c.37_39GGC>CTC | p.G13L | NA | NA |
| KRAS | c.37_39GGC>AAC | p.G13N | 53283 | COSV55622437 |
| KRAS | c.37_39GGC>CCC | p.G13P | 5985091 | COSV55584546 |
| KRAS | c.37G>C | p.G13R | 529 | COSV55502117 |
| KRAS | c.37_39GGC>TCC | p.G13S | NA | NA |
| KRAS | c.37G>A | p.G13S | 528 | COSV55509530 |
| KRAS | c.37_39GGC>ACC | p.G13T | NA | NA |
| KRAS | c.38G>T | p.G13V | 534 | COSV55522580 |
| KRAS | c.39C>A/G/T | p.G13X | NA | NA |
| KRAS | c.37_39GGC>TAC | p.G13Y | 1666974 | COSV55888721 |
| KRAS | c.351A>C | p.K117N | 19940 | COSV55545304 |
| KRAS | c.351A>T | p.K117N | 28519 | COSV55504752 |
| KRAS | c.350A>G | p.K117R | 4696722 | COSV55937655 |
| KRAS | c.181C>G | p.Q61E | 550 | COSV55502677 |
| KRAS | c.183A>C | p.Q61H | 554 | COSV55498802 |
| KRAS | c.183A>T | p.Q61H | 555 | COSV55499223 |
| KRAS | c.181C>A | p.Q61K | 549 | COSV55502066 |
| KRAS | c.182A>T | p.Q61L | 553 | COSV55504296 |
| KRAS | c.182A>C | p.Q61P | 551 | COSV55508574 |
| KRAS | c.182A>G | p.Q61R | 552 | COSV55498739 |
| NRAS | c.437C>G | p.A146G | NA | NA |
| NRAS | c.436G>C | p.A146P | 4172577 | NA |
| NRAS | c.436G>T | p.A146S | NA | NA |
| NRAS | c.436G>A | p.A146T | 27174 | COSV65731978 |
| NRAS | c.437C>T | p.A146V | 4170228 | COSV65746912 |
| NRAS | c.176C>G | p.A59G | 5878737 | COSV54746465 |
| NRAS | c.175G>A | p.A59T | 578 | COSV54743124 |
| NRAS | c.35G>C | p.G12A | 565 | COSV54736555 |
| NRAS | c.34_36GGT>GCA/GCC/GCG | p.G12A | 5881449 | NA |
| NRAS | c.34G>T | p.G12C | 562 | COSV54736487 |
| NRAS | c.35G>A | p.G12D | 564 | COSV54736383 |
| NRAS | c.34_36GGT>GAC | p.G12D | 46495 | NA |
| NRAS | c.34_36GGT>GAA/GAG | p.G12E | 144577 | COSV54750749 |
| NRAS | c.34_36GGT>TTT | p.G12F | NA | NA |
| NRAS | c.34_36GGT>CAT | p.G12H | NA | NA |
| NRAS | c.34_36GGT>ATT | p.G12I | NA | NA |
| NRAS | c.34_36GGT>CTT | p.G12L | NA | NA |

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|--------|------------------------|-------------------|-----------|---------------------|
| NRAS | c.34_36GGT>AAT | p.G12N | 12723 | COSV54746120 |
| NRAS | c.34_36GGT>CCT | p.G12P | 559 | COSV54750653 |
| NRAS | c.34G>C | p.G12R | 561 | COSV54736940 |
| NRAS | c.34G>A | p.G12S | 563 | COSV54736621 |
| NRAS | c.34_36GGT>TCT | p.G12S | NA | NA |
| NRAS | c.34_36GGT>ACT | p.G12T | NA | NA |
| NRAS | c.35G>T | p.G12V | 566 | COSV54736974 |
| NRAS | c.34_36GGT>GTA/GTC/GTG | p.G12V | NA | NA |
| NRAS | c.36T>A/C/G | p.G12X | 330600 | NA |
| NRAS | c.34_36GGT>TAT | p.G12Y | 560 | COSV54739656 |
| NRAS | c.38G>C | p.G13A | 575 | COSV54736793 |
| NRAS | c.37G>T | p.G13C | 570 | COSV54736386 |
| NRAS | c.38G>A | p.G13D | 573 | COSV54736416 |
| NRAS | c.37G>C | p.G13R | 569 | COSV54736550 |
| NRAS | c.37G>A | p.G13S | 571 | COSV54736476 |
| NRAS | c.38G>T | p.G13V | 574 | COSV54736480 |
| NRAS | c.349A>G | p.K117E | NA | NA |
| NRAS | c.351G>C | p.K117N | NA | NA |
| NRAS | c.351G>T | p.K117N | NA | NA |
| NRAS | c.350A>G | p.K117R | 9419633 | COSV104682079 |
| NRAS | c.181C>G | p.Q61E | 581 | COSV54743343 |
| NRAS | c.183A>T | p.Q61H | 585 | COSV54736991 |
| NRAS | c.183A>C | p.Q61H | 586 | COSV54736320 |
| NRAS | c.181C>A | p.Q61K | 580 | COSV54736310 |
| NRAS | c.182A>T | p.Q61L | 583 | COSV54736624 |
| NRAS | c.182A>C | p.Q61P | 582 | COSV54738969 |
| NRAS | c.182A>G | p.Q61R | 584 | COSV54736340 |
| PIK3CA | c.1624G>A | p.E542K | 760 | COSV55873227 |
| PIK3CA | c.1633G>A | p.E545K | 763 | COSV55873239 |
| PIK3CA | c.3140A>T | p.H1047L | 776 | COSV55873401 |
| PIK3CA | c.3140A>G | p.H1047R | 775 | COSV55873195 |

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