

## KRAS

Total: 251

Exon 2: 204/251 (A11V; G12A/C/D/F/R/S/V; G13C/D; G13insG; L19F; Q22K)

Exon 3: 19/251 (A59E/T; Q61H/K/L/R)

Exon 4: 28/251 (K117N; A146P/T/V)

## NRAS

Total: 30

Exon 2: 12/30 (G12C/D/V; G13R/V)

Exon 3: 18/30 (Q61H/K/L/R)

## BRAF

Total: 63

Exon 11: 8/63 (G466E/V; G469A/E/R)

Exon 15: 55/63 (N581S; D594G/N; L597R; T599I; V600E)

## PIK3CA

Total: 99

Exon 9: 68/99 (E542K/Q; E545K/Q; Q546H/K/P/R)

Exon 20: 31/99 (Y1021C; T1025A; M1040I; M1043I; H1047L/R/Y; G1049R; polyT ex20)

## TP53

Total: 245

Exon 4: 16/245 (R65H; V80M; W91\*; S94\*; Q104\*; G105fs\*; R110C)

Exon 5: 83/245 (N131delN; K132N/Q/R; C135F; P152L/S; R156fs\*; A159D; S166\*; H168R; E171\*; R175H; C176F; P177R; H179N/Q; S183\*; p.?)

Exon 6: 57/245 (G187S; p190fs\*; p190L/T; H193Y; I195S/T; R196\*; E198K; G199V; N200fs\*; E204\*; Y205H; R209fs\*; F212fs\*; R213fs\*; S215G/R; P219S; Y220C; p.?)

Exon 7: 29/245 (C229fs\*; T231I; I232S; Y234H/N; Y236C/N; C238R/Y; N239S; S241fs\*; S241Y; C242F; C242fs\*; G245V; M246K; N247T; R249M/S; P250L; I251fs\*; T253P; I254S; I255S)

Exon 8: 50/245 (L265R; G266E; R267W; F270V; E271K; V272L; V274A/F; C275F; A276D; P278fs\*; P278R; R280G/K; R283C/H; E285K; E286fs\*; N288fs\*; E294fs\*; P295S; E298\*; R306\*)

Exon 10: 10/245 (E336\*; R342\*)