95 Genes included in the custom melanoma gene panel

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| Genes for full coding sequence analysis (58 genes) |
|  *APC, ARID1A, ARID1B, ARID2, ATM, ATRX, BAP1, BRAF, BRCA1, BRCA2, CD274, CDK4, CDK6, CDKN2A, CWH43, CYLD, DDX3X, EGFR, EZH2, FGFR1, GAB2, GNA11, GNAQ, GNAS, GRIN2A, HDAC9, HGF, KDR, MAP2K2, MDM2, MEN1, MLH1, MSH2, MSH6, NF1, NOTCH1, NOTCH2, NTRK1, NTRK3, PDGFRA, PIK3CA, POLD1, POLE, PPP6C, PRSS1, PTEN, PTPN11, RAMP2, RASA2, RB1, SKP2, SPRED1, STK11, TERT* (including the promoter region)*, TP53, TSC1, TSC2, TYR* |
| Genes for hot spot analysis (23 genes) |
|  *AKT1, AKT3, CCND1, CTNNB1, CYSLTR2, EIF1AX, ERBB2, ERBB4, FGFR2, FGFR3, HRAS, IDH1, KIT, KRAS, MAP2K1, MET, MITF, MTOR, NRAS, PLCB4, RAC1, SF3B1, SRSF2* |
| Genes for promoter region analysis (9 genes) |
|  *BLCAP, DPH3, KBTBD8, NFKBIE, NSUN6, RALY, RNF185, RPL29, ZNF778* |
| Genes for 5’-untranslated region analysis (5 genes) |
|  *CHCHD2, MRPS31, PES1, RPS14, RPS27* |