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(54) **Title**: COMPOSITIONS AND METHODS FOR MULTIPLEX ANALYSIS OF NRAS AND BRAF NUCLEIC ACIDS

(57) **Abstract**: Described herein are methods and assays relating to the detection of NRAS and/or BRAF alterations (e.g. variations in copy number and expression level, and/or the presence of mutations, including point mutations). Existing methods are limited in their clinical usefulness by, e.g., limited sensitivity, inter-lab discordance, or inability to provide the necessary multiplex ability. The methods and assays provided herein permit multimodal, multiplex assaying for faster, more cost-effective testing and screening of patients, permitting improved healthcare.

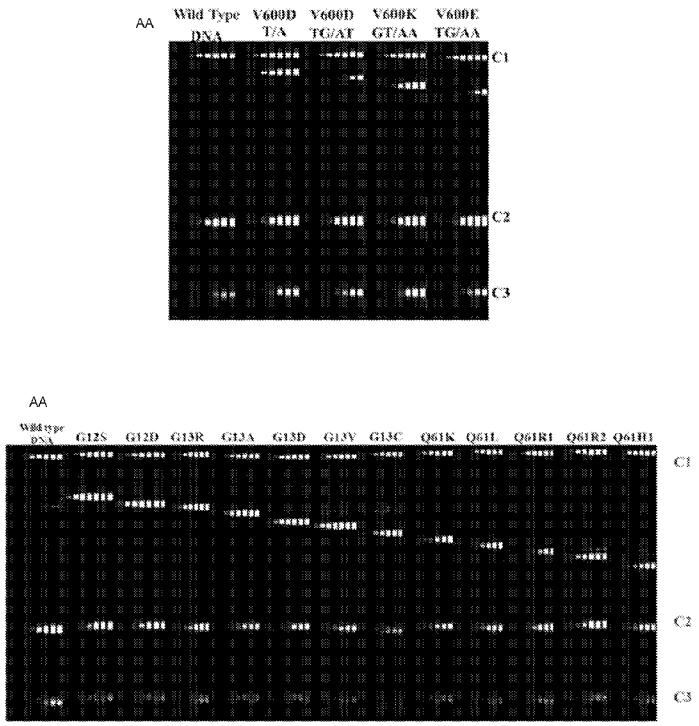

Fig. 1

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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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