

### Supplemental Figure 1.

Oncoprint of the mutational status of odontogenic lesions. Distribution of mutated genes regarding to the diagnosis, gender, age, anatomical site, and tumoral status. (AC: conventional ameloblastoma; AU: unicystic ameloblastoma; AEP: extraosseous / peripheral ameloblastoma; CA: ameloblastic carcinoma; OKC: odontogenic keratocyst; CEOT: calcifying epithelial odontogenic tumor; F: female; M: male; MAND: mandible; MAX: maxilla; P: primitive; R: recurrence; WT: wild type).

### Supplemental Table 1

Main clinical-pathological data and mutational status of odontogenic lesions, and immunohistochemical expression of BRAF V600E.

### Supplemental Table 2

Diagnostic accuracy parameters in ameloblastoma lesions. Comparative analysis between Sequenom MassARRAY System and Sanger sequencing.

### Supplemental Table 3

Diagnostic accuracy parameters in odontogenic lesions. Comparative analysis between Sequenom MassARRAY System and Sanger sequencing.