

**Table S1 Characteristics of included OM patients and Case I**

Patient No.	Onset age (years)	Duration (months)	Sex	Site	Recur	Tissue type	Other disease	CNV-Chr
P1	31	6	Male	MB	Yes	Frozen	No	Chr 4, 5, 8, 10, 12, 16, 17, 20, 21
2	51	12	Male	MA	Yes	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
3	30	72	Female	MA	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
4	28	1	Female	MB	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
5	33	12	Female	MB	No	Frozen	No	4, 5, 7, 8, 10, 12, 16, 17, 20, 21
6	42	6	Male	MA	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
7	50	24	Male	MA	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
8	40	6	Female	MB	Yes	Frozen	No	4, 5, 8, 10, 12, 13, 16, 17, 20, 21
9	25	24	Female	MB	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
10	22	36	Female	MA	Yes	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
11	34	1	Male	MB	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
12	10	2	Male	MA	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
13	7	4	Male	MB	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
14	23	12	Male	MB	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
15	37	5	Male	MA	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 20, 21
16	73	1	Female	MB	No	Frozen	Hyper-tension	4, 5, 8, 10, 12, 16, 17, 19-21
17	26	2	Male	MB	No	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 20, 21

Patient No.	Onset age (years)	Duration (months)	Sex	Site	Recur	Tissue type	Other disease	CNV-Chr
18	25	24	Male	MA	No	Paraffin	No	4, 5, 8, 10, 12, 13, 16, 17, 19-21
19	38	8	Female	MB	No	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 20, 21
20	38	24	Female	MB	No	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 20, 21
21	25	3	Female	MB	No	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 20, 21
22	21	3	Male	MB	No	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 19-21
23	39	9	Female	MA	No	Paraffin	No	4, 5, 8, 10, 12, 17, 19-21
24	55	3	Female	MA	Yes	Paraffin	Hyper-tension	4, 5, 8, 10, 12, 16, 17, 20, 21
25	38	NA	Female	MB	No	Paraffin	Osteoporosis	4, 5, 8, 10, 12, 16, 17, 20, 21
26	28	12	Female	MA	Yes	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 20, 21
27	12	2	Female	MB	No	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 20, 21
28	44	6	Female	MB	No	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 20, 21
29	46	24	Female	MB	No	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 19-21
30	35	5	Male	MB	No	Paraffin	No	4, 5, 8, 10, 12, 16, 17, 20, 21
31	1	2	Female	MA	Yes	Frozen	No	CNV-free
32	50	0.5	Male	MB	No	Frozen	No	CNV-free

#### A Case Study (OF or OM?)

Case I	13	1	Male	MB	No	Frozen	No	4, 5, 8, 10, 12, 16, 17, 19-21
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Notes: P: patient; MA: maxillary; MB: mandible; CNV: copy number variation; OF: odontogenic fibromyxoma; OFM: fibromyxoma; OM: odontogenic myxoma, NA: not available. CNV-Chr: Specific chromosomes harbored CNV events. CNV-free: no significant CNV events occurred.

**Table S2 Characteristics of included OF patients**

No.	Onset age (years)	Duration (years)	Sex	Site	Recur	Tissue type	Other disease	CNV-Chr
P1	37	0.17	Male	MA	NO	Paraffin	No	CNV free
2	36	3	Male	MA	NO	Paraffin	No	Chr 5, 12, 15, 20
3	26	1	Male	MB	NO	Paraffin	No	5, 12, 20
4	24	NA	Male	MA	NO	Paraffin	No	CNV free
5	27	NA	Female	MB	NO	Paraffin	No	5, 15
6	30	6	Female	MA	NO	Paraffin	No	5, 12, 15
7	45	NA	Male	MB	NO	Paraffin	No	5, 8, 15
8	32	1.5	Male	MB	NO	Paraffin	No	5, 10, 12
9	62	3	Female	MB	NO	Paraffin	No	5, 7, 20
10	41	0.5	Male	MA	NO	Paraffin	No	15, 20

Notes: P: patient; MA: maxillary; MB: mandible; CNV: copy number variation; OF: odontogenic fibromyxoma; NA: not available. CNV-Chr: Specific chromosomes harbored CNV events.

**Table S3 Characteristics of included donors of DP and DF**

No.	Age (years)	Sex	Extraction Site	Treatment	Tissue type	CNV
P1	17	Female	48	Orthodontics	Frozen	CNV free
2	16	Female	48	Orthodontics	Frozen	CNV free
3	8	Male	38	Orthodontics	Frozen	CNV free
4	15	Male	38	Orthodontics	Frozen	CNV free

Notes: P: patient; CNV: copy number variation; The records of tooth extraction site were applied with FDI method, “48” means the right lower wisdom tooth and “38” means the left lower wisdom tooth.