

Mangalaparthy *et al.*, 2020. Mutational landscape of esophageal squamous cell carcinoma in an Indian cohort
 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>A4GNT</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>AACS</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>AADAC</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 3.5; 42474T: 3.5; 56957T: 4; 42497T: 5.5; 42496T: 4; 42500T: 3.5;
<i>AADACL2</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42474T: 3.5; 56957T: 4; 42484T: 3.5; 42500T: 3.5; 42497T: 5.5; 42496T: 4;
<i>AAK1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>AAR2</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AARD</i>	chr8	8q24.11	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>AASS</i>	chr7	7q31.32	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>ABAT</i>	chr16	16p13.2	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>ABCA13</i>	chr7	7p12.3	1	0	0	1	Amplification	2	0	42497T: 12,20.5;
<i>ABCA2</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>ABCA3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>ABCA7</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ABCB1</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42483T: 3.5; 42487T: 3.5;
<i>ABCB4</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
<i>ABCB5</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ABCB9</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ABCC1</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>ABCC3</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ABCC5</i>	chr3	3q27.1	11	1	3	7	Amplification	11	0	42497T: 4; 42474T: 3.5; 42494T: 3.5; 42495T: 4; 56957T: 5; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>ABCC6</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>ABCC6P1</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>ABCC9</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>ABCD2</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ABCD4</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>ABCF3</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 42495T: 4; 42494T: 3.5; 42474T: 3.5; 56957T: 5; 42484T: 4; 42498T: 3.5; 42497T: 4; 42473T: 3.5;
<i>ABCG1</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ABCG5</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>ABCG8</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>ABHD1</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ABHD10</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ABHD12B</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ABHD16A</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>ABHD4</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>ABII</i>	chr10	10p12.1	1	0	0	1	Amplification	1	0	56958T: 4.5;
<i>ABI3BP</i>	chr3	3q12.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>ABRA</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>ABTB1</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>ABTB2</i>	chr11	11p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ACAA1</i>	chr3	3p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ACACB</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>ACAD10</i>	chr12	12q24.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ACAD11</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>ACAD9</i>	chr3	3q21.3	3	0	1	2	Amplification	3	0	42496T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>ACADS</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ACAP2</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>ACBD6</i>	chr1	1q25.2-q25.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>ACER3</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42497T: 3.5; 42496T: 3.5;
<i>ACHE</i>	chr7	7q22.1	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>ACIN1</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>ACKR4</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42492T: 3.5; 42487T: 3.5;
<i>ACN9</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>ACOT1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>ACOT2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>ACOT4</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>ACOT6</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>ACOT8</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ACOX1</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>ACPI</i>	chr2	16p12.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ACP2</i>	chr11	11p11.2 11p	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ACP6</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ACPL2</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42496T: 4;
<i>ACPP</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42492T: 3.5; 42487T: 3.5;
<i>ACSBG1</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ACSF2</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ACSM1</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ACSM2A</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ACSM2B</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ACSM3</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ACSM4</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>ACSM5</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ACSS2</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;

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<i>ACTB</i>	chr7	2q21.1	2	1	0	1	Amplification	2	0	42497T: 8.5; 42473T: 4.5;
<i>ACTL10</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>ACTL6A</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42497T: 4; 42500T: 14; 42498T: 3.5; 42484T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5;
<i>ACTL8</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ACTN1</i>	chr14	14q24.1 14q	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ACTN4</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>ACTR10</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ACTR1B</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ACTR2</i>	chr2	2p14	2	0	0	2	Amplification	2	0	56957T: 3.5; 42500T: 3.5;
<i>ACTR5</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ACTRT3</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42500T: 8; 56957T: 4; 42495T: 4; 42474T: 3.5; 42484T: 4;
<i>ACY3</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>ACYP1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>ACYP2</i>	chr2	2p16.2	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>ADA</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ADAM15</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 6.5; 42496T: 3.5;
<i>ADAM17</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ADAM1A</i>	chr12	12q24.12-q2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ADAM20</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ADAM21</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ADAM21P1</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ADAM22</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
<i>ADAM33</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 6;
<i>ADAMTS12</i>	chr5	5p13.3-p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>ADAMTS16</i>	chr5	5p15.32	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 4;
<i>ADAMTS20</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ADAMTSL4</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 5;
<i>ADAP1</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ADAP2</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ADAR</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ADCK1</i>	chr14	14q24.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ADCK2</i>	chr7	7q34	2	1	1	0	Amplification	2	0	42473T: 3.5; 42487T: 3.5;
<i>ADCK4</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>ADCK5</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42496T: 4; 42483T: 3.5; 56957T: 3.5; 42495T: 4.5;
<i>ADCY1</i>	chr7	7p12.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ADCY2</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 4;
<i>ADCY3</i>	chr2	8q24.22	1	0	0	1	Amplification	1	0	42500T: 3.5;

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<i>ADCY5</i>	chr3	3q21.1	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 3.5;
<i>ADCY6</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ADCY8</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42496T: 3.5; 42484T: 3.5; 42495T: 3.5;
<i>ADCY9</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>ADCYAP1</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	56957T: 8; 42493T: 3.5; 42500T: 4.5;
<i>ADCYAP1R1</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ADD2</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ADHFE1</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42495T: 3.5; 42497T: 4; 42496T: 3.5;
<i>ADII</i>	chr2	2p25.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42500T: 3.5;
<i>ADIG</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ADIPOQ</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42497T: 4;
<i>ADIPOR1</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ADNP</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ADORA1</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ADPRH</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ADPRHL1</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>ADRA1D</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ADRB3</i>	chr8	8p11.23	2	0	1	1	Amplification	2	0	42493T: 3.5; 42482T: 3.5;
<i>ADRBK1</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>ADRM1</i>	chr20	20q13.33	2	1	1	0	Amplification	2	0	42473T: 6; 42486T: 3.5;
<i>ADSL</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AEBP1</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 4.5;
<i>AEBP2</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>AFF3</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>AFTPH</i>	chr2	2p14	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 3.5;
<i>AGBL2</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AGBL3</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>AGBL5</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>AGER</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AGK</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>AGMO</i>	chr7	7p21.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AGO2</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 3.5; 42483T: 3.5; 42495T: 3.5;
<i>AGPAT1</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AGPAT2</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>AGPS</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 4.5;
<i>AGR2</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 7.5;
<i>AGR3</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 7.5;
<i>AGTRI</i>	chr3	3q24	8	1	2	5	Amplification	8	0	42496T: 4; 42497T: 4.5; 42484T: 3.5; 42474T: 3.5; 56957T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>AGXT</i>	chr2	2q37.3	1	1	0	0	Deletion	0	1	42474T: 0.5;
<i>AGXT2</i>	chr5	5p13.2	4	1	1	1	2 Amplification	4	0	42486T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>AHCY</i>	chr20	20q11.22	3	1	0	0	2 Amplification	3	0	42473T: 3.5; 42496T: 5; 42493T: 3.5;
<i>AHCYL1</i>	chr1	1p13.3	1	1	0	0	0 Amplification	1	0	42473T: 4.5;
<i>AHCYL2</i>	chr7	7q32.1	1	0	1	0	0 Amplification	1	0	42487T: 3.5;
<i>AHDC1</i>	chr1	1p36.11-p35	1	1	0	0	0 Amplification	1	0	42473T: 3.5;
<i>AHR</i>	chr7	7p21.1	1	1	0	0	0 Amplification	1	0	42473T: 7.5;
<i>AHRR</i>	chr5	5p15.33	5	2	1	2	2 Amplification	5	0	42496T: 4; 42473T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>AHSA1</i>	chr14	14q24.3	2	0	0	2	2 Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>AHSA2</i>	chr2	2p15	3	0	1	2	2 Amplification	3	0	42500T: 3.5; 42484T: 4.5; 56957T: 3.5;
<i>AHSG</i>	chr3	3q27.3	10	1	3	6	6 Amplification	10	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42497T: 4; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5;
<i>AIF1</i>	chr6	6p21.33	1	1	0	0	0 Amplification	1	0	42473T: 3.5;
<i>AIF1L</i>	chr9	9q34.12-q34	1	0	1	0	0 Amplification	1	0	42484T: 4;
<i>AIFM3</i>	chr22	22q11.21	1	1	0	0	0 Amplification	1	0	42477T: 4;
<i>AIM1</i>	chr6	5p13.2	1	0	0	1	1 Amplification	1	0	42496T: 3.5;
<i>AIMP2</i>	chr7	7p22.1	1	1	0	0	0 Amplification	1	0	42473T: 4.5;
<i>AIP</i>	chr11	1p36.33	2	1	0	1	1 Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>AJUBA</i>	chr14	14q11.2	1	0	0	1	1 Amplification	1	0	42496T: 4;
<i>AK3</i>	chr9	9p24.1	1	0	0	1	1 Amplification	1	0	42496T: 3.5;
<i>AK9</i>	chr6	6q21	1	0	0	1	1 Amplification	1	0	42496T: 3.5;
<i>AKAP1</i>	chr17	17q22	1	0	0	1	1 Amplification	1	0	42497T: 4;
<i>AKAP2</i>	chr9	9q31.3	1	0	1	0	0 Amplification	1	0	42483T: 3.5;
<i>AKAP3</i>	chr12	12p13.32	1	0	0	1	1 Amplification	1	0	42494T: 3.5;
<i>AKAP5</i>	chr14	14q23.3	1	0	0	1	1 Amplification	1	0	42494T: 4;
<i>AKAP6</i>	chr14	14q12	1	0	0	1	1 Amplification	1	0	42500T: 4.5;
<i>AKAP9</i>	chr7	7q21.2	3	0	2	1	1 Amplification	3	0	42487T: 3.5; 42494T: 3.5; 42483T: 4;
<i>AKR1B1</i>	chr7	7q33	1	0	1	0	0 Amplification	1	0	42487T: 3.5;
<i>AKR1B10</i>	chr7	7q33	1	0	1	0	0 Amplification	1	0	42487T: 3.5;
<i>AKR1B15</i>	chr7	7q33	1	0	1	0	0 Amplification	1	0	42487T: 3.5;
<i>AKR1D1</i>	chr7	7q33	1	0	1	0	0 Amplification	1	0	42487T: 3.5;
<i>AKR7A2</i>	chr1	1p36.13	1	1	0	0	0 Amplification	1	0	42473T: 4;
<i>AKR7A3</i>	chr1	1p36.13	1	1	0	0	0 Amplification	1	0	42473T: 4;
<i>AKR7L</i>	chr1	1p36.13 1p3	1	1	0	0	0 Amplification	1	0	42473T: 4;
<i>AKT2</i>	chr19	19q13.2	1	0	0	1	1 Amplification	1	0	42500T: 7.5;
<i>ALDH1A1</i>	chr9	9q21.13	1	1	0	0	0 Amplification	1	0	42473T: 4;
<i>ALDH1L1</i>	chr3	3q21.3	1	0	0	1	1 Amplification	1	0	42496T: 3.5;
<i>ALDH2</i>	chr12	12q24.12	1	0	0	1	1 Amplification	1	0	42500T: 3.5;
<i>ALDH3B1</i>	chr11	11q13.2	1	0	0	1	1 Amplification	1	0	56957T: 5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>ALDH3B2</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5;
<i>ALDH4A1</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ALDH6A1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>ALG1</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42495T: 12; 42473T: 5.5;
<i>ALG10</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ALG10B</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ALG1L</i>	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ALG1L2</i>	chr3	3q22.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>ALG3</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42473T: 3.5; 42497T: 4; 56957T: 5; 42474T: 3.5; 42495T: 4; 42494T: 3.5; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>ALK</i>	chr2	2p23.2-p23.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ALKBH1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>ALKBH2</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>ALKBH4</i>	chr7	7q22.1	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>ALKBH6</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>ALLC</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ALMS1</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ALMS1P</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ALOX5AP</i>	chr13	13q12.3	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>ALPK3</i>	chr15	15q25.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ALPL</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ALX3</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>AMACR</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>AMBRA1</i>	chr11	11p11.2	2	1	0	1	Amplification/Deletion	1	1	42473T: 3.5; 42499T: 0.5;
<i>AMD1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>AMNI</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 12.5;
<i>AMOTL2</i>	chr3	3q22.2	4	0	1	3	Amplification	4	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>AMPD2</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>AMPH</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AMT</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>AMZ1</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ANAPC13</i>	chr3	3q22.2	4	0	1	3	Amplification	4	0	42496T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>ANAPC15</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	42475T: 5; 42501T: 6; 42498T: 5; 42478T: 4.5; 56957T: 3.5; 42476T: 4; 42492T: 4; 42493T: 3.5;
<i>ANAPC2</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>ANAPC5</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ANAPC7</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>ANGEL1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>ANGPT1</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>ANGPT4</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;

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<i>ANGPTL5</i>	chr11	11q22.1	1	0	0	1	Amplification	1	0	56958T: 5.5;
<i>ANKAR</i>	chr2	2q32.2	2	0	1	1	Amplification	2	0	42493T: 3.5; 42482T: 4;
<i>ANKEF1</i>	chr20	20p12.2	1	0	1	0	Amplification	1	0	42486T: 4;
<i>ANKFN1</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>ANKH</i>	chr5	5p15.2	5	1	2	2	Amplification	5	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 4; 42484T: 3.5;
<i>ANKIB1</i>	chr7	7q21.2	3	0	2	1	Amplification	3	0	42487T: 3.5; 42494T: 3.5; 42483T: 4;
<i>ANKLE2</i>	chr12	12q24.33	1	0	0	1	Amplification	1	0	56957T: 4;
<i>ANKMY2</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 7.5;
<i>ANKRD13A</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4.5;
<i>ANKRD13D</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>ANKRD23</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4.5;
<i>ANKRD27</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	56957T: 4; 42484T: 3.5; 42500T: 4.5; 42473T: 3.5;
<i>ANKRD29</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 6;
<i>ANKRD33B</i>	chr5	5p15.2	4	1	1	2	Amplification	4	0	42475T: 3.5; 42486T: 3.5; 42496T: 3.5; 42493T: 4;
<i>ANKRD34A</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ANKRD35</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ANKRD36</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 4.5;
<i>ANKRD36B</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ANKRD36BP2</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ANKRD36C</i>	chr2	2q11.1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4;
<i>ANKRD39</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4.5;
<i>ANKRD40</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ANKRD44</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>ANKRD46</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>ANKRD52</i>	chr12	12q13.3	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>ANKRD53</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ANKRD54</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ANKRD60</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ANKRD61</i>	chr7	7p22.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ANKRD62</i>	chr18	18p11.21	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ANKRD63</i>	chr15	15q15.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ANKRD7</i>	chr7	7q31.31	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>ANKS1B</i>	chr12	12q23.1	1	0	0	1	Deletion	0	1	42495T: 0.5;
<i>ANKS3</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42495T: 12; 42494T: 3.5;
<i>ANKS4B</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ANKUB1</i>	chr3	3q25.1	9	2	2	5	Amplification	9	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 3.5; 42474T: 3.5; 56957T: 4; 42496T: 4; 42473T: 4; 42497T: 4.5;
<i>ANLN</i>	chr7	7p14.2	1	1	0	0	Amplification	1	0	42473T: 4.5;

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<i>ANO1</i>	chr11	11q13.3	12	3	2	7	Amplification	14	0	42498T: 7; 42478T: 4.5; 56957T: 5; 42497T: 4.5,6.5; 42483T: 9; 42486T: 13.5; 42500T: 13; 56958T: 9; 42501T: 6; 42475T: 7.5; 42492T: 4; 42476T: 29.5,13.5;
<i>ANO6</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ANO7P1</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>ANP32D</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ANP32E</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ANPEP</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ANTXR1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ANXA1</i>	chr9	9q21.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ANXA13</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42495T: 3.5; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>ANXA2R</i>	chr5	5p12	5	1	2	2	Amplification	5	0	42493T: 3.5; 42496T: 3.5; 42483T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>ANXA4</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ANXA7</i>	chr10	10q22.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ANXA9</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>AOAH</i>	chr7	7p14.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>APIG2</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>AP1S1</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;
<i>AP2M1</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 56957T: 5; 42495T: 4; 42474T: 3.5; 42494T: 3.5; 42498T: 3.5; 42484T: 4; 42497T: 4; 42473T: 3.5;
<i>AP3S2</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AP4S1</i>	chr14	14q12	3	0	0	3	Amplification	3	0	42494T: 3.5; 56957T: 4; 42500T: 4.5;
<i>AP5M1</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>AP5S1</i>	chr20	20p13	2	1	1	0	Amplification	2	0	42473T: 4.5; 42487T: 4.5;
<i>AP5Z1</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 8.5;
<i>APBB1IP</i>	chr10	10p12.1	1	0	0	1	Amplification	1	0	56958T: 5;
<i>APCDD1L</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>APEH</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>APH1A</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>APIP</i>	chr11	11p13	2	1	0	1	Amplification	2	0	42493T: 4; 42473T: 4.5;
<i>APLF</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>APLP1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>APOA1BP</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 7;
<i>APOB</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>APOBEC3A</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOBEC3B</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOBEC3C</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOBEC3D</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>APOBEC3F</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOBEC3G</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOBEC3H</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOC1</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>APOC1P1</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
<i>APOC2</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>APOC4</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
<i>APOD</i>	chr3	3q29	9	1	3	5	Amplification	9	0	56957T: 6; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>APOE</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>APOL1</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOL2</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOL3</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOL4</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOL5</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOL6</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>APOLD1</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>APOM</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AQP1</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>AQP10</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>AQP12A</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>AQP12B</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>AQP2</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>AQP5</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>AQP6</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>AQP8</i>	chr16	16p12.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ARAP1</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	56957T: 3.5; 42492T: 4; 42498T: 5; 42478T: 4.5; 42475T: 8.5; 42476T: 4;
<i>ARC</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>AREL1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>ARF3</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ARF5</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>ARF6</i>	chr14	14q21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ARFGAP1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>ARFGAP2</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ARFGEF1</i>	chr8	8q13.2	3	0	0	3	Amplification	3	0	42497T: 4; 42496T: 3.5; 42495T: 3.5;
<i>ARFGEF2</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ARFRP1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>ARG2</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ARGFX</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>ARHGAP1</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ARHGAP17</i>	chr16	16p12.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ARHGAP23</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ARHGAP25</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ARHGAP28</i>	chr18	18p11.31	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ARHGAP31</i>	chr3	3q13.32-q13	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ARHGAP33</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>ARHGAP39</i>	chr8	8q24.3	5	0	1	4	Amplification	5	0	42496T: 4; 42483T: 3.5; 56957T: 3.5; 42495T: 4.5; 42494T: 3.5;
<i>ARHGAP40</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ARHGAP5</i>	chr14	14q12	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>ARHGDIB</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>ARHGDIG</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>ARHGEF1</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ARHGEF10</i>	chr8	8p23.3	1	0	0	1	Amplification	1	0	56957T: 4;
<i>ARHGEF10L</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ARHGEF11</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>ARHGEF17</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42478T: 4.5; 42492T: 4; 42498T: 6.5; 56957T: 3.5;
<i>ARHGEF19</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>ARHGEF2</i>	chr1	1q22	2	1	0	1	Amplification	2	0	42493T: 4; 42473T: 4.5;
<i>ARHGEF26</i>	chr3	3q25.2	9	1	2	6	Amplification	9	0	42484T: 3.5; 56957T: 4; 42474T: 3.5; 42496T: 4.5; 42497T: 5.5; 42500T: 3.5; 42492T: 3.5; 42487T: 3.5;
<i>ARHGEF33</i>	chr2	2p22.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ARHGEF35</i>	chr7	7q35	2	0	2	0	Amplification	2	0	42487T: 3.5; 42484T: 4.5;
<i>ARHGEF39</i>	chr9	9p13.3	3	1	0	2	Amplification	3	0	42501T: 3.5; 42473T: 3.5; 42496T: 4;
<i>ARHGEF5</i>	chr7	7q35	2	0	2	0	Amplification	2	0	42487T: 3.5; 42484T: 4.5;
<i>ARID2</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ARID3A</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ARID3B</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ARID4A</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ARID4B</i>	chr1	1q42.3	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>ARID5A</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>ARL13B</i>	chr3	3q11.1-q11.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>ARL14</i>	chr3	3q25.33	8	1	2	5	Amplification	8	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4; 42497T: 3.5;
<i>ARL4A</i>	chr7	7p21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ARL5C</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ARL6</i>	chr3	3q11.2	2	1	0	1	Amplification	2	0	42476T: 3.5; 42500T: 3.5;
<i>ARL6IP1</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;

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<i>ARL6IP4</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ARMC1</i>	chr8	8q13.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>ARMC10</i>	chr7	7q22.1	3	0	1	2	Amplification	3	0	42501T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>ARMC10P1</i>	chr3	3q11.2	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>ARMC2</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ARMC8</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>ARNT</i>	chr1	1q41	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ARNTL2</i>	chr12	12p11.23	1	0	0	1	Amplification	1	0	42500T: 6;
<i>ARPC3</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ARRB1</i>	chr11	11q13.4	2	0	0	2	Amplification	2	0	42498T: 8; 42492T: 4;
<i>ARRDC1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>ART4</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>ARVCF</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>ASAP1</i>	chr8	8q24.21-q24	3	0	1	2	Amplification	3	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5;
<i>ASAP2</i>	chr2	2p25.1 2p24	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ASAP3</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ASB15</i>	chr7	7q31.32	2	0	1	1	Amplification	2	0	42493T: 3.5; 42487T: 3.5;
<i>ASB3</i>	chr2	2p16.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>ASB4</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>ASB8</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ASCC2</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ASH1L</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>ASH2L</i>	chr8	8p11.23	2	0	1	1	Amplification	2	0	42482T: 3.5; 42493T: 3.5;
<i>ASIC1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ASIP</i>	chr20	10p11.22-p1	3	1	0	2	Amplification	3	0	42493T: 3.5; 42473T: 3.5; 42496T: 5;
<i>ASL</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>ASNSD1</i>	chr2	2q32.2	2	0	1	1	Amplification	2	0	42493T: 3.5; 42482T: 4;
<i>ASPH</i>	chr8	8q12.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>ASPRV1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ASPSCR1</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ASTE1</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>ASTL</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>ASUN</i>	chr12	12p11.23	1	0	0	1	Amplification	1	0	42500T: 6;
<i>ASXL1</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 4; 42496T: 5;
<i>ASXL2</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ASZ1</i>	chr7	7q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>ATAD2</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42495T: 3.5; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>ATAD2B</i>	chr2	2p24.1-p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ATAD5</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ATF1</i>	chr12	5p13.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 42494T: 3.5;
<i>ATF2</i>	chr2	5p13.2	1	0	0	1	Amplification	1	0	42493T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>ATF4</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ATF6B</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ATF7IP2</i>	chr16	16p13.2-p13	2	1	0	0	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>ATG13</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ATG14</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ATG16L1</i>	chr2	2q37.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ATG16L2</i>	chr11	11q13.4	5	3	0	2	Amplification	5	0	42476T: 4; 42475T: 8.5; 42492T: 4; 42478T: 4.5; 56957T: 3.5;
<i>ATG3</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ATG5</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ATL1</i>	chr14	14q32.2	2	0	0	2	Amplification	2	0	42494T: 4; 42496T: 3.5;
<i>ATL2</i>	chr2	2p22.2-p22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42500T: 3.5;
<i>ATN1</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>ATOH8</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ATP11A</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>ATP11B</i>	chr3	3q26.33	10	1	3	6	Amplification	10	0	42500T: 24; 42498T: 3.5; 42484T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5; 42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>ATP13A3</i>	chr3	3q29	9	1	3	5	Amplification	9	0	56957T: 4.5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>ATP13A4</i>	chr3	3q29	10	1	3	6	Amplification	10	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42501T: 3.5; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5;
<i>ATP13A5</i>	chr3	3q29	10	1	3	6	Amplification	10	0	56957T: 4.5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4; 42501T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>ATP1B3</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 4; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>ATP2A2</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4.5;
<i>ATP2C1</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42492T: 3.5; 42487T: 3.5;
<i>ATP4A</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>ATP4B</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>ATP5E</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ATP5G3</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ATP5S</i>	chr14	14q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ATP5SL</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ATP6V0A2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ATP6V0A4</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>ATP6V0D2</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>ATP6V1A</i>	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ATP6V1B1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>ATP6VIC1</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>ATP6VID</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ATP6VIE2</i>	chr2	2p21 2p16-p	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>ATP6VIF</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>ATP6VIG1</i>	chr9	9q32	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ATP6VIG2</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ATP6VIH</i>	chr8	8q11.23	3	0	0	3	Amplification	3	0	42496T: 3.5; 42494T: 4; 42495T: 3.5;
<i>ATP8B2</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ATP9A</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ATPIF1</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ATR</i>	chr3	14q32.13	5	0	1	4	Amplification	5	0	56957T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42496T: 4;
<i>ATRAID</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ATRN</i>	chr20	20p13	1	1	0	0	Amplification	2	0	42473T: 3.5,6;
<i>ATXN2</i>	chr12	12q24.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ATXN7L1</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42497T: 4; 42501T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>AUP1</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>AURKA</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>AVL9</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>AVP</i>	chr20	1q44	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>AVPR1B</i>	chr1	1q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>AXIN1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>AXL</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>AZIN1</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>AZU1</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>B3GALNT1</i>	chr3	3q26.1	8	1	2	5	Amplification	8	0	42497T: 3.5; 56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>B3GALT5</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>B3GALTL</i>	chr13	13q12.3	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>B3GAT1</i>	chr11	11q25	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>B3GNT2</i>	chr2	2p15	3	0	1	2	Amplification	3	0	42500T: 3.5; 56957T: 3.5; 42484T: 8.5;
<i>B3GNT4</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>B3GNT5</i>	chr3	3q27.1	9	1	3	5	Amplification	9	0	56957T: 5; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>B3GNT6</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42496T: 3.5; 42497T: 3.5;
<i>B4GALNT3</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>B4GALT4</i>	chr3	3q13.32	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>B4GALT5</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>B9D2</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>BAALC</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>BACE2</i>	chr21	21q22.2-q22	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>BAG2</i>	chr6	6p12.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>BAG4</i>	chr8	8p11.23	2	0	1	1	Amplification	2	0	42482T: 3.5; 42493T: 3.5;
<i>BAG6</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>BAI1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>BAI2</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>BALAP2L2</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>BALAP3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>BASP1</i>	chr5	5p15.1	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>BATF</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>BAZIA</i>	chr14	14q13.1-q13	2	1	0	1	Amplification	2	0	42500T: 4.5; 42476T: 5;
<i>BBS1</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5.5;
<i>BBS9</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>BCAM</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>BCAN</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>BCAP29</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42501T: 3.5; 42497T: 4;
<i>BCAR4</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42473T: 12.5; 42495T: 4;
<i>BCAS1</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>BCAS4</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>BCAT1</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>BCDIN3D</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>BCHE</i>	chr3	3q26.1	9	1	3	5	Amplification	9	0	42500T: 4; 56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>BCKDHA</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>BCL11A</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42500T: 3.5; 42484T: 4.5; 56957T: 3.5;
<i>BCL2L1</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>BCL2L14</i>	chr12	12p13.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>BCL2L2</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42496T: 4; 42500T: 4;
<i>BCL3</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
<i>BCL6</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42497T: 4; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42474T: 3.5; 42495T: 4;
<i>BCL7A</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>BCL9</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>BCL9L</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>BDHI</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42498T: 3.5; 42484T: 4; 56957T: 6; 42495T: 4; 42474T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 5; 42482T: 3.5;
<i>BEND3</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>BEND6</i>	chr6	6p12.1	1	0	0	1	Amplification	1	0	42497T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>BEST3</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 5.5;
<i>BET1</i>	chr7	7q21.3	2	0	0	2	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>BFAR</i>	chr16	16p13.12	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>BFSP2</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42487T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>BGLAP</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>BHLHE22</i>	chr8	8q12.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>BHLHE23</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>BHLHE41</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>BICD1</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>BIN2</i>	chr12	12q13.13	2	0	0	2	Amplification	2	0	42500T: 3.5; 42494T: 5.5;
<i>BIRC2</i>	chr11	11q22.2	1	0	0	1	Amplification	1	0	56958T: 5.5;
<i>BIRC3</i>	chr11	11q22.2	1	0	0	1	Amplification	1	0	56958T: 5.5;
<i>BIRC6</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>BIRC7</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>BLCAP</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>BLK</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>BLOC1S1</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>BLVRA</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>BLVRB</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>BMP10</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>BMP3</i>	chr4	4q21.21	1	1	0	0	Amplification	1	0	42473T: 4;
<i>BMP4</i>	chr14	14q22.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>BMP7</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 7;
<i>BMPER</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>BNIP3P1</i>	chr14	14q12	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>BNIP1L</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>BOC</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>BOLA1</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>BOLA3</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>BOLL</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>BOP1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>BPGM</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>BPI</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>BPIFA1</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>BPIFA2</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>BPIFA3</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
<i>BPIFB1</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
<i>BPIFB2</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
<i>BPIFB3</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>BPIFB4</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
<i>BPIFB6</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>BRAF</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>BRAP</i>	chr12	6p21.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>BRAT1</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>BRCA2</i>	chr13	13q13.1	1	0	0	1	Amplification	1	0	42497T: 6;
<i>BRD9</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42475T: 3.5; 42473T: 3.5; 42496T: 4; 42486T: 3.5;
<i>BRE</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>BRF2</i>	chr8	8p11.23	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>BRI3BP</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>BRICD5</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>BRIX1</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>BRMS1L</i>	chr14	14q13.2	2	1	0	1	Amplification	2	0	42500T: 8.5; 42476T: 8;
<i>BRSK2</i>	chr11	11p15.5	1	1	0	0	Amplification	1	0	42473T: 4;
<i>BRWD1</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>BSN</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>BTBD18</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>BTLA</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>BTNL2</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>BTNL3</i>	chr5	5q35.3	2	1	0	1	Amplification/Deletion	1	1	42474T: 0.5; 42495T: 3.5;
<i>BTNL8</i>	chr5	5q35.3	2	1	0	1	Amplification/Deletion	1	1	42495T: 3.5; 42474T: 0.5;
<i>BTNL9</i>	chr5	5q35.3	2	1	0	1	Amplification/Deletion	1	1	42495T: 3.5; 42474T: 0.5;
<i>BZRAP1</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>BZW2</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 7.5;
<i>C11orf24</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5;
<i>C11orf30</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42497T: 3.5; 42496T: 3.5;
<i>C11orf31</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>C11orf49</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C11orf70</i>	chr11	11q22.1	1	0	0	1	Amplification	1	0	56958T: 5.5;
<i>C11orf72</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>C11orf80</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5.5; 42473T: 3.5;
<i>C11orf86</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5.5; 42473T: 3.5;
<i>C11orf94</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C12orf36</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>C12orf39</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>C12orf4</i>	chr12	12p13.32	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>C12orf40</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C12orf43</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C12orf49</i>	chr12	12q24.22	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C12orf5</i>	chr12	12p13.32	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>C12orf52</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C12orf54</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>C12orf57</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>C12orf60</i>	chr12	12p13.1-p12	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>C12orf65</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C12orf68</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C12orf71</i>	chr12	12p11.23	1	0	0	1	Amplification	1	0	42500T: 6;
<i>C12orf76</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4.5;
<i>C12orf77</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>C14orf1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>C14orf105</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>C14orf119</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42500T: 4; 42496T: 4;
<i>C14orf164</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42500T: 4; 42496T: 4;
<i>C14orf166</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>C14orf166B</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>C14orf169</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>C14orf178</i>	chr14	14q24.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>C14orf183</i>	chr14	14q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>C14orf23</i>	chr14	14q12	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>C14orf28</i>	chr14	14q21.2	1	0	0	1	Amplification	1	0	42500T: 5.5;
<i>C14orf37</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>C14orf39</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42483T: 3.5; 42494T: 4;
<i>C14orf93</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>C15orf38</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C15orf52</i>	chr15	15q15.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C15orf59</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C15orf62</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>C16orf11</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
<i>C16orf13</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>C16orf45</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>C16orf52</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>C16orf59</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>C16orf62</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>C16orf71</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42494T: 3.5; 42495T: 12;
<i>C16orf72</i>	chr16	16p13.2	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>C16orf89</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42495T: 12; 42473T: 5.5;
<i>C16orf90</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>C16orf91</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>C16orf96</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42495T: 12; 42494T: 3.5;
<i>C17orf47</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>C17orf67</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>C17orf96</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C17orf98</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>C18orf42</i>	chr18	18p11.31	1	0	0	1	Amplification	1	0	56957T: 8;
<i>C18orf56</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	42493T: 3.5; 56957T: 8; 42500T: 4.5;
<i>C18orf8</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 4;
<i>C19orf12</i>	chr19	19q12	5	1	1	3	Amplification	5	0	42473T: 2.5; 42500T: 4.5; 42484T: 6; 42494T: 4; 56957T: 4;
<i>C19orf33</i>	chr19	19q13.2	4	1	1	2	Amplification	4	0	42500T: 6.5; 42474T: 4; 56957T: 4; 42484T: 3.5;
<i>C19orf40</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	56957T: 4; 42484T: 3.5; 42500T: 4.5; 42473T: 7;
<i>C19orf47</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
<i>C19orf54</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 4;
<i>C19orf55</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>C19orf69</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>C1D</i>	chr2	2p14	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C1GALT1</i>	chr7	7p22.1-p21.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42497T: 7.5;
<i>C1orf134</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>C1orf138</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42473T: 5; 42493T: 3.5;
<i>C1orf186</i>	chr1	1q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>C1orf189</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>C1orf210</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>C1orf213</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C1orf234</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C1orf43</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>C1orf50</i>	chr1	1p34.2	2	0	0	2	Amplification	2	0	42496T: 5.5; 42493T: 3.5;
<i>C1orf51</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>C1orf54</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>C1orf56</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>C1orf61</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>C1orf63</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>C1orf64</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>C1orf85</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>C1orf86</i>	chr1	1p36.33	1	0	0	1	Deletion	0	1	42496T: 0;
<i>CIQA</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CIQB</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CIQC</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CIQL4</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CIQTNF3</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>CIQTNF4</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CIQTNF6</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CIQTNF8</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>CIR</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>CIRL</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>CIS</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>C2</i>	chr6	14q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C2orf112</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>C2orf141</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C2orf144</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
<i>C2orf166</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>C2orf173</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>C2orf194</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C2orf195</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>C2orf197</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>C2orf201</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>C2orf202</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C2orf203</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>C2orf24</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C2orf26</i>	chr20	20p11.23	1	0	1	0	Amplification	1	0	42483T: 4;
<i>C2orf27</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 6;
<i>C2orf62</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C2orf96</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C21orf128</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C21orf88</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C22orf23</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C22orf29</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>C22orf39</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>C2CD2</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C2CD3</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42478T: 6; 42492T: 4; 42498T: 8; 56957T: 3.5; 42476T: 4; 42475T: 7.5;
<i>C2CD5</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>C2orf16</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C2orf42</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C2orf43</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C2orf44</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C2orf48</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C2orf49</i>	chr2	2q12.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>C2orf50</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C2orf54</i>	chr2	2q37.3	1	1	0	0	Deletion	0	1	42474T: 0.5;
<i>C2orf61</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>C2orf66</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>C2orf68</i>	chr2	2p11.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42482T: 3.5;
<i>C2orf70</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C2orf71</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C2orf73</i>	chr2	2p16.2	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>C2orf78</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;

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<i>C2orf81</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>C2orf88</i>	chr2	2q32.2	3	0	1	2	Amplification	3	0	42493T: 3.5; 42494T: 3.5; 42482T: 4;
<i>C2orf91</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>C3orf17</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>C3orf22</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>C3orf27</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>C3orf30</i>	chr3	3q13.32	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>C3orf33</i>	chr3	3q25.31	8	1	2	5	Amplification	8	0	42497T: 5.5; 42496T: 4.5; 42484T: 3.5; 56957T: 4; 42474T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>C3orf36</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>C3orf37</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>C3orf52</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>C3orf55</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 3.5; 56957T: 4; 42495T: 4; 42474T: 3.5; 42497T: 5.5;
<i>C3orf56</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>C3orf58</i>	chr3	3q24	7	1	1	5	Amplification	7	0	42496T: 4; 42497T: 3.5; 42474T: 3.5; 56957T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>C3orf62</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>C3orf65</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42497T: 4; 42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>C3orf70</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42474T: 3.5; 42495T: 4; 56957T: 4.5; 42484T: 4; 42498T: 3.5; 42497T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>C3orf72</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42496T: 3.5;
<i>C3orf79</i>	chr3	3q25.2	9	1	2	6	Amplification	9	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42500T: 3.5; 42496T: 4; 42497T: 5.5; 42474T: 3.5; 56957T: 4; 42484T: 3.5;
<i>C3orf80</i>	chr3	3q25.33	8	1	2	5	Amplification	8	0	42497T: 3.5; 56957T: 4; 42495T: 4; 42474T: 3.5; 42484T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>C4A</i>	chr6	6p21.33	2	1	1	0	Amplification	2	0	42473T: 3.5; 42484T: 3.5;
<i>C4B</i>	chr6	6p21.33	2	1	1	0	Amplification	2	0	42484T: 3.5; 42473T: 3.5;
<i>C4orf19</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>C5orf17</i>	chr5	5p14.2	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>C5orf22</i>	chr5	5p13.3	4	1	1	2	Amplification	4	0	42486T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>C5orf24</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C5orf28</i>	chr5	5p12	4	1	1	2	Amplification	4	0	42493T: 3.5; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>C5orf34</i>	chr5	5p12	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>C5orf38</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42475T: 3.5; 42473T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>C5orf42</i>	chr5	5p13.2	5	1	2	2	Amplification	5	0	42496T: 3.5; 42486T: 3.5; 42483T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>C5orf49</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42493T: 4; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>C5orf51</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42496T: 3.5; 42486T: 3.5; 42483T: 3.5; 42475T: 3.5; 42484T: 3.5; 42493T: 3.5;
<i>C5orf55</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42475T: 3.5; 42486T: 3.5; 42473T: 3.5; 42496T: 4;
<i>C6</i>	chr5	20q13.33	6	1	3	2	Amplification	6	0	42484T: 3.5; 42493T: 3.5; 42496T: 3.5; 42483T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>C6orf10</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C6orf183</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>C6orf203</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>C6orf25</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C6orf47</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C6orf48</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C6orf99</i>	chr6	6q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C7</i>	chr5	22q11.22	6	1	3	2	Amplification	6	0	42484T: 3.5; 42493T: 3.5; 42496T: 3.5; 42486T: 3.5; 42483T: 3.5; 42475T: 3.5;
<i>C7orf10</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>C7orf26</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 5;
<i>C7orf31</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>C7orf33</i>	chr7	7q36.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42500T: 4;
<i>C7orf34</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>C7orf41</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>C7orf49</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>C7orf50</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>C7orf55</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>C7orf60</i>	chr7	7q31.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42501T: 3.5;
<i>C7orf62</i>	chr7	7q21.13	2	0	2	0	Amplification	2	0	42483T: 3.5; 42487T: 3.5;
<i>C7orf63</i>	chr7	7q21.13	2	0	2	0	Amplification	2	0	42483T: 3.5; 42487T: 3.5;
<i>C7orf66</i>	chr7	7q31.1	3	0	1	2	Amplification	3	0	42501T: 3.5; 42497T: 4; 42487T: 3.5;
<i>C7orf71</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>C7orf72</i>	chr7	7p12.2	1	0	0	1	Amplification	1	0	42497T: 20.5;
<i>C7orf73</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>C7orf76</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>C8G</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>C8orf12</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>C8orf17</i>	chr8	8q24.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>C8orf22</i>	chr8	8q11.21	5	0	2	3	Amplification	5	0	42484T: 3.5; 42494T: 3.5; 42495T: 3.5; 42482T: 3.5; 42496T: 3.5;
<i>C8orf31</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>C8orf33</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 3.5; 42483T: 3.5;
<i>C8orf34</i>	chr8	8q13.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>C8orf37</i>	chr8	8q22.1	3	1	0	2	Amplification	3	0	42496T: 3.5; 42473T: 4.5; 42495T: 3.5;
<i>C8orf44</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42497T: 4.5;
<i>C8orf46</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42495T: 3.5; 42497T: 4.5; 42496T: 3.5;
<i>C8orf47</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>C8orf49</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>C8orf56</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>C8orf59</i>	chr8	8q21.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>C8orf74</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>C8orf76</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42495T: 3.5; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>C8orf82</i>	chr8	8q24.3	5	0	1	4	Amplification	5	0	56957T: 3.5; 42494T: 3.5; 42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>C8orf86</i>	chr8	8p11.22	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>C8orf87</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>C9</i>	chr5	10p15.1	6	1	3	2	Amplification	6	0	42496T: 3.5; 42486T: 3.5; 42483T: 3.5; 42475T: 3.5; 42484T: 3.5; 42493T: 3.5;
<i>C9orf116</i>	chr9	9q34.3	1	0	1	0	Amplification	1	0	42484T: 4.5;
<i>C9orf123</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>C9orf131</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>C9orf139</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>C9orf141</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>C9orf142</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>C9orf163</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>C9orf169</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>C9orf172</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>C9orf173</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>C9orf37</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>C9orf53</i>	chr9	9p21.3	2	1	1	0	Deletion	0	2	42486T: 0.5; 42475T: 0.5;
<i>C9orf69</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>C9orf91</i>	chr9	9q32	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CA1</i>	chr8	8q21.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CA13</i>	chr8	8q21.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CA14</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CA2</i>	chr8	8q21.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CA3</i>	chr8	8q21.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CA8</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CA9</i>	chr9	9p13.3	3	1	0	2	Amplification	3	0	42496T: 4; 42473T: 3.5; 42501T: 3.5;
<i>CABLES1</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 4;
<i>CABLES2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>CABP1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CABP2</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>CABP4</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>CABP7</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CABYR</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 4;
<i>CACNA1G</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CACNA1H</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>CACNA1I</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CACNA2D1</i>	chr7	7q21.11	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CACNB1</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CACNB3</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CACNG2</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CACNG3</i>	chr16	16p12.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CAD</i>	chr2	13q22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CADPS2</i>	chr7	7q31.32	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CALB1</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CALCR</i>	chr7	7q21.3	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>CALCRL</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CALD1</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CALM1</i>	chr14	14q32.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CALM2</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>CALM3</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 7;
<i>CALU</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CAMK2B</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 4.5;
<i>CAMK2G</i>	chr10	10q22.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CAMK2N1</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CAMK2N2</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42484T: 4; 42498T: 3.5; 42495T: 4; 42494T: 3.5; 42474T: 3.5; 56957T: 5; 42497T: 4; 42473T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>CAMKK2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CAMKMT</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>CAMLG</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CAMSAP1</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>CAND1</i>	chr12	12q14.3-q15	2	0	0	2	Amplification	2	0	42501T: 6.5; 42500T: 4.5;
<i>CAPG</i>	chr2	4p15.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CAPN12</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>CAPN13</i>	chr2	2p23.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CAPN14</i>	chr2	2p23.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CAPN15</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>CAPNS1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>CAPRIN1</i>	chr11	11p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CAPRIN2</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 8;

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<i>CAPSL</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>CAPZA2</i>	chr7	7q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CAPZB</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CARD10</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CARD11</i>	chr7	7p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CARD14</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CARD6</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42484T: 3.5; 42493T: 3.5; 42496T: 3.5; 42486T: 3.5; 42483T: 3.5; 42475T: 3.5;
<i>CARD9</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>CARHSP1</i>	chr16	16p13.2	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 5.5;
<i>CARNS1</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>CASC1</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>CASC3</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 4;
<i>CASD1</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CASKIN1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>CASKIN2</i>	chr17	17q25.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CASP16</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>CASP2</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CASR</i>	chr3	3q13.33-q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CASS4</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CAT</i>	chr11	11q12.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>CATSPER3</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CATSPERG</i>	chr19	19q13.2	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>CAVI</i>	chr7	7q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CAV2</i>	chr7	7q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CBFA2T2</i>	chr20	20q11.21-q1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
<i>CBLC</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>CBLL1</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42501T: 3.5; 42497T: 4; 42487T: 3.5; 42493T: 3.5;
<i>CBLN4</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CBWD1</i>	chr9	9p24.3	2	0	1	1	Amplification/Deletion	1	1	42486T: 0.5; 42496T: 3.5;
<i>CBX2</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CBX3</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CBX4</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CBX5</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42494T: 3.5; 42473T: 3.5;
<i>CBX6</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CBX7</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CBX8</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CBY1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CCDC104</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42484T: 4.5; 56957T: 3.5; 42500T: 3.5;
<i>CCDC106</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>CCDC107</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CCDC108</i>	chr2	2q35	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CCDC116</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CCDC121</i>	chr2	2p23.3	1	0	0	0	Amplification	1	0	42500T: 3.5;
<i>CCDC126</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CCDC127</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42486T: 3.5; 42496T: 4; 42473T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>CCDC129</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CCDC132</i>	chr7	7q21.2-q21.3	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>CCDC136</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CCDC14</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CCDC141</i>	chr2	2q31.2	1	0	0	0	Amplification	1	0	42493T: 3.5;
<i>CCDC142</i>	chr2	2p13.1	1	0	0	0	Amplification	1	0	42500T: 3.5;
<i>CCDC146</i>	chr7	7q11.23	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CCDC148</i>	chr2	2q24.1	2	1	0	1	Amplification	2	0	42473T: 4; 42493T: 3.5;
<i>CCDC150</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>CCDC152</i>	chr5	5p12	5	1	2	2	Amplification	5	0	42493T: 3.5; 42475T: 3.5; 42496T: 3.5; 42483T: 3.5; 42486T: 3.5;
<i>CCDC154</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>CCDC157</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CCDC162P</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CCDC166</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>CCDC167</i>	chr6	6p21.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CCDC175</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42494T: 4; 42483T: 3.5;
<i>CCDC176</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>CCDC177</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>CCDC23</i>	chr1	1p34.2	2	0	0	2	Amplification	2	0	42493T: 3.5; 42496T: 5.5;
<i>CCDC26</i>	chr8	8q24.21	3	0	1	2	Amplification	3	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5;
<i>CCDC28B</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CCDC30</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CCDC33</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CCDC36</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CCDC37</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CCDC39</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42497T: 4; 42500T: 14; 42498T: 3.5; 42484T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5;
<i>CCDC40</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CCDC42B</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCDC50</i>	chr3	3q28	9	1	3	5	Amplification	9	0	42498T: 3.5; 42484T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>CCDC58</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CCDC60</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCDC61</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>CCDC62</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCDC63</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCDC64</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCDC65</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCDC71L</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42501T: 3.5; 42497T: 4; 42493T: 3.5; 42487T: 3.5;
<i>CCDC77</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCDC78</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>CCDC8</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>CCDC80</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CCDC84</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CCDC85A</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42500T: 3.5; 56957T: 3.5; 42484T: 4.5;
<i>CCDC87</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5.5;
<i>CCDC88A</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42484T: 4.5; 56957T: 3.5; 42500T: 3.5;
<i>CCDC91</i>	chr12	12p11.22	2	0	0	2	Amplification	2	0	42500T: 6; 42494T: 4;
<i>CCDC92</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCDC97</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CCIN</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>CCL19</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>CCL21</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>CCL28</i>	chr5	5p12	4	1	1	2	Amplification	4	0	42486T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>CCM2</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CCM2L</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>CCND1</i>	chr11	11q13.3	2	1	0	1	Amplification	2	0	42475T: 7.5; 42492T: 4;
<i>CCND2</i>	chr12	12p13.32	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>CCNE1</i>	chr19	19q12	5	1	1	3	Amplification	5	0	42494T: 4; 56957T: 4; 42484T: 6; 42500T: 4.5; 42473T: 2.5;
<i>CCNE2</i>	chr8	8q22.1	3	1	0	2	Amplification	3	0	42473T: 4.5; 42496T: 3.5; 42495T: 3.5;
<i>CCNF</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>CCNH</i>	chr5	5q14.3	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>CCNL1</i>	chr3	3q25.31	8	1	2	5	Amplification	8	0	42497T: 5.5; 56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>CCNT1</i>	chr12	12q13.11-q1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCP110</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CCS</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5.5; 42473T: 3.5;
<i>CCT2</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 5.5; 42500T: 5;
<i>CCT3</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CCT4</i>	chr2	2p15	3	0	1	2	Amplification	3	0	56957T: 3.5; 42484T: 8.5; 42500T: 3.5;
<i>CCT5</i>	chr5	5p15.2	4	1	1	2	Amplification	4	0	42475T: 3.5; 42486T: 3.5; 42496T: 3.5; 42493T: 4;
<i>CCT6A</i>	chr7	7p11.2	2	0	1	1	Amplification	2	0	56957T: 5; 42483T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CCT6P1</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>CCT6P3</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>CCT7</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CCZ1</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 8; 42473T: 4.5;
<i>CCZ1B</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 6.5;
<i>CD160</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CD163L1</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>CD164</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CD164L2</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CD177</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>CD200</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CD200R1</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CD200R1L</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CD207</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CD22</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>CD274</i>	chr9	9p24.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42498T: 14;
<i>CD36</i>	chr7	7q21.11	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CD3EAP</i>	chr19	19q13.32	2	1	1	0	Amplification	2	0	42484T: 4; 42473T: 3.5;
<i>CD4</i>	chr12	12p13.31	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>CD40</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CD44</i>	chr11	11p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CD5L</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CD63</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>CD72</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42501T: 3.5; 42473T: 3.5;
<i>CD79A</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CD80</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CD82</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CD86</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CD8A</i>	chr2	2p11.2	2	0	0	2	Amplification	2	0	42493T: 3.5; 42500T: 3.5;
<i>CD8B</i>	chr2	2p11.2	2	0	0	2	Amplification	2	0	42493T: 3.5; 42500T: 3.5;
<i>CDA</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CDC16</i>	chr13	13q34	2	0	0	2	Amplification	2	0	56957T: 3.5; 42496T: 4.5;
<i>CDC20</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CDC25B</i>	chr20	20p13	2	1	1	0	Amplification	2	0	42473T: 6; 42487T: 4.5;
<i>CDC37L1</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CDC40</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CDC42</i>	chr1	1p36.12	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 4;
<i>CDC42EP1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CDC42EP3</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CDC42SE1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CDC45</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;

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<i>CDC6</i>	chr17	17q21.2	1	0	0	1	Amplification	1	0	42497T: 4;
<i>CDCA3</i>	chr12	12p13.31	2	1	0	1	Amplification	2	0	42494T: 3.5; 42473T: 3.5;
<i>CDCA7</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 5;
<i>CDCA7L</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CDH10</i>	chr5	5p14.2-p14.1	4	1	1	2	Amplification	4	0	42493T: 4; 42496T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>CDH12</i>	chr5	5p14.3	4	1	1	2	Amplification	4	0	42493T: 4; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>CDH17</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CDH18</i>	chr5	5p14.3	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>CDH22</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CDH24</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>CDH26</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CDH4</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>CDH6</i>	chr5	5p13.3	4	1	1	2	Amplification	4	0	42493T: 3.5; 42475T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>CDH9</i>	chr5	5p14.1	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>CDHR3</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42497T: 4; 42501T: 3.5;
<i>CDIP1</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42495T: 8.5; 42494T: 3.5;
<i>CDK12</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42473T: 6; 42497T: 3.5;
<i>CDK13</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CDK14</i>	chr7	7q21.13	3	0	2	1	Amplification	3	0	42483T: 4; 42487T: 3.5; 42494T: 3.5;
<i>CDK19</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CDK2</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>CDK2AP1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CDK2AP2</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>CDK3</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>CDK5R2</i>	chr2	2q35	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CDK5RAP1</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
<i>CDK6</i>	chr7	7q21.2	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>CDKL1</i>	chr14	14q21.3	2	0	0	2	Amplification	2	0	42494T: 4; 42496T: 3.5;
<i>CDKL3</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CDKL4</i>	chr2	2p22.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CDKN1B</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>CDKN2A</i>	chr9	9p21.3	2	1	1	0	Deletion	0	2	42475T: 0.5; 42486T: 0.5;
<i>CDKN2AIPNL</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CDKN2B</i>	chr9	9p21.3	1	0	1	0	Deletion	0	1	42486T: 0.5;
<i>CDKN3</i>	chr14	14q22.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>CDR2</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CDS2</i>	chr20	20p12.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CDV3</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42492T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>CEA</i>	chr19	19q13.31	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CEACAM16</i>	chr19	19q13.31-q1	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>CEACAM19</i>	chr19	19q13.31	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CEACAM20</i>	chr19	19q13.31	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
<i>CEACAM21</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CEACAM3</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CEACAM4</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CEACAM5</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CEACAM6</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CEACAM7</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CEBPB</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>CEBPD</i>	chr8	8q11.21	2	0	0	2	Amplification	2	0	42494T: 3.5; 42496T: 3.5;
<i>CEBPE</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42500T: 4; 42496T: 4;
<i>CEBPG</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 56957T: 4; 42484T: 3.5;
<i>CEBPZ</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CELA1</i>	chr12	12q13.13	2	0	0	2	Amplification	2	0	42494T: 3.5; 42500T: 3.5;
<i>CELA3A</i>	chr1	1p36.12	2	1	0	1	Amplification	2	0	42473T: 4; 42493T: 3.5;
<i>CELA3B</i>	chr1	1p36.12	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 4;
<i>CELF1</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CELF3</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CELSR1</i>	chr22	22q13.31	1	0	0	1	Amplification	1	0	42495T: 4;
<i>CENPA</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CENPB</i>	chr20	20p13	2	1	1	0	Amplification	2	0	42473T: 6; 42487T: 4.5;
<i>CENPO</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CEP19</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42487T: 3.5; 42493T: 5; 42492T: 3.5; 42482T: 3.5; 56957T: 6; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4;
<i>CEP250</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>CEP41</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CEP57L1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CEP63</i>	chr3	3q22.2	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>CEP68</i>	chr2	2p14	2	0	0	2	Amplification	2	0	56957T: 3.5; 42500T: 3.5;
<i>CEP70</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>CEP72</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42475T: 3.5; 42486T: 3.5; 42473T: 3.5; 42496T: 4;
<i>CEP89</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	56957T: 4; 42484T: 3.5; 42500T: 4.5; 42473T: 7;
<i>CEP97</i>	chr3	3q12.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>CER1</i>	chr9	3p22-p21.2	1	0	0	1	Amplification	1	0	42498T: 14.5;
<i>CERK</i>	chr22	22q13.31	1	0	0	1	Amplification	1	0	42495T: 4;
<i>CERKL</i>	chr2	2q31.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>CERS2</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CERS5</i>	chr12	2q24.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CETN1</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	42493T: 3.5; 56957T: 8; 42500T: 4.5;
<i>CFB</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CFD</i>	chr19	2q34	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CFHR1</i>	chr1	1q31.3	1	0	0	1	Amplification	1	0	42493T: 4.5;
<i>CFHR3</i>	chr1	1q31.3	1	0	0	1	Amplification	1	0	42493T: 4.5;
<i>CFL2</i>	chr14	14q13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>CFTR</i>	chr7	7q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CGN</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CGREF1</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CGRRF1</i>	chr14	14q22.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>CHAC1</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CHAC2</i>	chr2	2p16.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>CHAD</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CHCHD1</i>	chr10	10q22.2	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 4.5;
<i>CHCHD2</i>	chr7	7p11.2	2	0	1	1	Amplification	2	0	42483T: 4; 56957T: 5;
<i>CHCHD3</i>	chr7	7q32.3-q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CHCHD6</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CHCHD7</i>	chr8	8q12.1	3	0	1	2	Amplification	3	0	42483T: 5; 42496T: 3.5; 42495T: 3.5;
<i>CHD1L</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CHD6</i>	chr20	20q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CHD8</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 5;
<i>CHEK2P2</i>	chr15	15q11.1	2	1	1	0	Amplification/Deletion	1	1	42484T: 7.5; 42476T: 0.5;
<i>CHKA</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5;
<i>CHMP1B</i>	chr18	18p11.21	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CHMP3</i>	chr2	2p11.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 42493T: 3.5;
<i>CHMP4B</i>	chr20	20q11.22	3	1	0	2	Amplification	3	0	42493T: 3.5; 42473T: 3.5; 42496T: 5;
<i>CHMP4C</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>CHN1</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CHN2</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CHP2</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CHRAC1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42483T: 3.5;
<i>CHRD</i>	chr3	3q27.1	11	1	3	7	Amplification	11	0	42484T: 4; 42498T: 3.5; 42494T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 5; 42497T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>CHRD2</i>	chr11	11q13.4	5	2	0	3	Amplification	5	0	56957T: 3.5; 42498T: 8; 42492T: 4; 42475T: 7.5; 42476T: 4;
<i>CHRM2</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CHRM4</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CHRNA1</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CHRNA3</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CHRNA4</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>CHRNA5</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CHRNA6</i>	chr8	8p11.21	1	0	1	0	Amplification	1	0	42483T: 4.5;

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<i>CHRNA2</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CHRNA3</i>	chr8	8p11.21	1	0	1	0	Amplification	1	0	42483T: 4.5;
<i>CHRNA4</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CHST10</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CHST12</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CHST13</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CHST8</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 56957T: 4; 42484T: 3.5;
<i>CHTF18</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
<i>CHTOP</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CHURC1</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>CIAO1</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>CIB1</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CIB2</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CIB4</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CIC</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CIDEA</i>	chr18	18p11.21 18	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CIITA</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 5;
<i>CIR1</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CISD3</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CIT</i>	chr12	12p36.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CKAP5</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CKM</i>	chr19	19q13.32	3	1	1	1	Amplification	3	0	56957T: 4; 42484T: 4; 42473T: 3.5;
<i>CKS1B</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 6.5;
<i>CLASRP</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
<i>CLC</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
<i>CLCA1</i>	chr1	1p22.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CLCA2</i>	chr1	1p22.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CLCA3P</i>	chr1	1p22.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CLCA4</i>	chr1	1p22.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CLCF1</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>CLCN1</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CLCN2</i>	chr3	3q27.1	11	1	3	7	Amplification	11	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 42474T: 3.5; 42495T: 4; 42494T: 3.5; 56957T: 5; 42484T: 4; 42498T: 3.5; 42497T: 4;
<i>CLCN7</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>CLCNKA</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>CLCNKB</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>CLDN1</i>	chr3	3q28	9	1	3	5	Amplification	9	0	56957T: 4.5; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CLDN11</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	56957T: 4; 42495T: 4; 42474T: 3.5; 42484T: 4; 42500T: 8; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>CLDN12</i>	chr7	7q21.13	2	0	2	0	Amplification	2	0	42483T: 3.5; 42487T: 3.5;
<i>CLDN15</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;
<i>CLDN16</i>	chr3	3q28	9	1	3	5	Amplification	9	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5;
<i>CLDN18</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>CLDN19</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CLDN5</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>CLDND1</i>	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>CLEC14A</i>	chr14	14q21.1	2	1	0	1	Amplification	2	0	42476T: 4; 42500T: 6.5;
<i>CLEC16A</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42495T: 5; 42473T: 5.5;
<i>CLEC19A</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>CLEC2L</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CLEC4F</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CLEC5A</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CLHC1</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	56957T: 3.5; 42484T: 4.5; 42500T: 3.5;
<i>CLIC1</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CLIC3</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>CLIC4</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CLIP1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CLIP3</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>CLIP4</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CLK2</i>	chr1	16p13.3	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>CLK3</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CLN8</i>	chr8	8p23.3	1	0	0	1	Amplification	1	0	56957T: 4;
<i>CLP1</i>	chr11	18p11.32	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>CLPB</i>	chr11	11q13.4	7	3	0	4	Amplification	7	0	42475T: 5; 42476T: 4; 42493T: 3.5; 56957T: 3.5; 42498T: 5; 42492T: 4; 42478T: 4.5;
<i>CLPTM1</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>CLPTM1L</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42475T: 3.5; 42496T: 4; 42473T: 3.5; 42486T: 3.5; 42493T: 3.5;
<i>CLRN1</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42474T: 3.5; 56957T: 4; 42484T: 3.5; 42500T: 3.5; 42497T: 4.5; 42496T: 4;
<i>CLSTN2</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>CLSTN3</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>CLTA</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>CLTCL1</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 21;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CLUAP1</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>CLUL1</i>	chr18	18p11.32	3	0	0	0	Amplification	3	0	42493T: 3.5; 56957T: 8; 42500T: 4.5;
<i>CLVS1</i>	chr8	8q12.2-q12.3	2	0	0	0	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CMAS</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>CMBL</i>	chr5	5p15.2	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 4;
<i>CMPK2</i>	chr2	2p25.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CMSS1</i>	chr3	3q12.1	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>CMTM5</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42496T: 4; 42500T: 4;
<i>CNBD1</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CNBD2</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CNBP</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>CNFN</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CNGA3</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CNGB3</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>CNIH</i>	chr14	14q22.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>CNN2</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CNNM3</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4.5;
<i>CNNM4</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4.5;
<i>CNOT11</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CNOT2</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 5.5; 42500T: 5;
<i>CNOT4</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CNR2</i>	chr1	5q31.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CNRIP1</i>	chr2	2p14	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CNTD2</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
<i>CNTN1</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CNTNAP2</i>	chr7	7q35-q36.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42500T: 4;
<i>COA1</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>COA4</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42478T: 6; 42492T: 4; 42498T: 8; 56957T: 3.5; 42476T: 4; 42475T: 7.5;
<i>COA5</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>COBL</i>	chr7	7p12.1	1	0	0	1	Amplification	1	0	42497T: 20.5;
<i>COCH</i>	chr14	14q12	3	0	0	3	Amplification	3	0	42500T: 4.5; 56957T: 4; 42494T: 3.5;
<i>COG5</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42501T: 3.5; 42497T: 4; 42493T: 3.5; 42487T: 3.5;
<i>COG7</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>COIL</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>COL14A1</i>	chr8	8q24.12	3	1	0	2	Amplification	3	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5;
<i>COL16A1</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>COL1A2</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>COL20A1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>COL21A1</i>	chr6	6p12.1 6p12	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>COL22A1</i>	chr8	8q24.23-q24	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>COL26A1</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;
<i>COL28A1</i>	chr7	7p21.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42497T: 7.5;
<i>COL2A1</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>COL3A1</i>	chr2	2q32.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>COL5A2</i>	chr2	2q32.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>COL6A5</i>	chr3	3q22.1	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>COL6A6</i>	chr3	3q22.1	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>COL8A1</i>	chr3	3q12.1	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>COL9A3</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>COLEC10</i>	chr8	8q24.12	3	1	0	2	Amplification	3	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5;
<i>COLEC11</i>	chr2	2p25.3	2	0	0	2	Amplification	2	0	42500T: 3.5; 42495T: 3.5;
<i>COLEC12</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	56957T: 8; 42493T: 3.5; 42500T: 4.5;
<i>COMMD1</i>	chr2	2p15	3	0	1	2	Amplification	3	0	42500T: 3.5; 42484T: 8.5; 56957T: 3.5;
<i>COMMD2</i>	chr3	3q25.1	8	1	2	5	Amplification	8	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42496T: 4; 42497T: 4.5; 42484T: 3.5; 42474T: 3.5; 56957T: 4;
<i>COMMD5</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>COMMD7</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>COMT</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>COPB2</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>COPG1</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>COPG2</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>COPRS</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>COPSS5</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42495T: 3.5; 42497T: 4; 42496T: 3.5;
<i>COPZ1</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42494T: 3.5; 42473T: 3.5;
<i>COQ10A</i>	chr12	12q13.3	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>COQ10B</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>COQ5</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>COQ6</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>COQ7</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>CORO1B</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>CORO7</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42495T: 8.5; 42494T: 3.5; 42473T: 5.5;
<i>COX11</i>	chr17	6p22.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>COX14</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>COX16</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>COX17</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>COX19</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>COX4I2</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>COX5B</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>COX6A1</i>	chr12	12q24.31 12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>COX6B1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>COX6C</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>COX7A1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>COX7A2L</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>COX7C</i>	chr5	5q14.3	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>CP</i>	chr3	3q24-q25.1	8	1	2	5	Amplification	8	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 3.5; 42474T: 3.5; 56957T: 4; 42497T: 4.5; 42496T: 4;
<i>CPA1</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CPA2</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CPA3</i>	chr3	7q32.2	7	1	2	4	Amplification	7	0	42492T: 3.5; 42484T: 3.5; 42493T: 3.5; 56957T: 4; 42487T: 3.5; 42474T: 3.5; 42497T: 4.5;
<i>CPA4</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CPA5</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CPA6</i>	chr8	8q13.2	3	0	0	3	Amplification	3	0	42497T: 4; 42496T: 3.5; 42495T: 3.5;
<i>CPB1</i>	chr3	3q24	8	1	2	5	Amplification	8	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42484T: 3.5; 56957T: 4; 42474T: 3.5; 42497T: 4.5; 42496T: 4;
<i>CPED1</i>	chr7	7q31.31	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CPLX3</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CPM</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 6.5; 42500T: 5;
<i>CPN2</i>	chr3	16q13	9	1	3	5	Amplification	9	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4;
<i>CPNE1</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>CPNE3</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CPNE4</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42492T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>CPNE8</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CPOX</i>	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>CPPED1</i>	chr16	16p13.12	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 5.5;
<i>CPQ</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>CPSF1</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42483T: 3.5; 42496T: 4; 42495T: 4.5; 56957T: 3.5;
<i>CPSF3</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CPSF6</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 5.5;
<i>CPT1A</i>	chr11	11q13.3	5	1	0	4	Amplification	5	0	42492T: 4; 42498T: 9.5; 56957T: 5; 42497T: 4.5; 42476T: 29.5;
<i>CPVL</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CPXM1</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CRABP1</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CRABP2</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>CRAMP1L</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>CRCP</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>CREB3</i>	chr9	1q21.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>CREB3L1</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CREB3L2</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CREB3L4</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CREB5</i>	chr7	7p15.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CREBBP</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>CREBL2</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>CREG2</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CRH</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42496T: 3.5; 42497T: 4; 42495T: 3.5;
<i>CRHR2</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CRIM1</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CRIPT</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>CRISPLD1</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CRKL</i>	chr22	22q11.21	2	1	0	1	Amplification	2	0	42477T: 4; 42497T: 4;
<i>CRLF3</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CRNKL1</i>	chr20	20p11.23	1	0	1	0	Amplification	1	0	42483T: 4;
<i>CRNN</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CROCC</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CROCCP2</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CROCCP3</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CROT</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
<i>CRTC2</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CRY2</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CRYBA2</i>	chr2	2q35	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CRYBG3</i>	chr3	3q11.2	2	1	0	1	Amplification	2	0	42476T: 3.5; 42500T: 3.5;
<i>CRYGS</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42497T: 4; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>CRYM</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CSE1L</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CSF1</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CSF2RB</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CSF3</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>CSK</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CSMD1</i>	chr8	8p23.2	1	0	1	0	Deletion	0	1	42486T: 0.5;
<i>CSNK1E</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CSNK2A1</i>	chr20	16q21	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CSNK2B</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CSPPI</i>	chr8	8q13.1-q13.2	3	0	0	3	Amplification	3	0	42495T: 3.5; 42497T: 4; 42496T: 3.5;
<i>CSRNP2</i>	chr12	12q13.12	2	0	0	2	Amplification	2	0	42494T: 3.5; 42500T: 3.5;
<i>CSTA</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>CSTF1</i>	chr20	20q13.2-q13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CTAGE1</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 4;
<i>CTAGES</i>	chr14	14q21.1	1	0	0	1	Amplification	1	0	42500T: 6.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CTCF</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 7;
<i>CTDSPL</i>	chr3	3p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CTHRC1</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>CTNNA1</i>	chr5	5q31.2	1	0	0	1	Amplification	1	0	42495T: 3.5;
<i>CTNNA2</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CTNBL1</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CTNND1</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>CTNND2</i>	chr5	5p15.2	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 4;
<i>CTSA</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CTSB</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>CTSE</i>	chr1	1q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CTSF</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5.5;
<i>CTSK</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CTSS</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CTSZ</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CTTN</i>	chr11	11q13.3	12	3	2	7	Amplification	12	0	42498T: 7; 42478T: 4.5; 56957T: 5; 42497T: 6.5; 42486T: 20.5; 42483T: 9; 56958T: 5.5; 42500T: 13; 42501T: 6; 42475T: 7.5; 42492T: 4; 42476T: 13.5;
<i>CTTNBP2</i>	chr7	7q31.31	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>CTXN3</i>	chr5	5q23.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CUBN</i>	chr10	10p13	1	0	0	1	Amplification	1	0	56958T: 4;
<i>CUEDC1</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>CUL1</i>	chr7	7q36.1	2	0	1	1	Amplification	2	0	42500T: 4; 42487T: 3.5;
<i>CUL4A</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>CUX1</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42501T: 3.5; 42493T: 3.5;
<i>CUX2</i>	chr12	12q24.11-q2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CWC22</i>	chr2	2q31.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>CWC25</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CWH43</i>	chr4	4p11	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>CXCR5</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CYB5R1</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CYCI</i>	chr8	4q21.1	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>CYCS</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>CYHR1</i>	chr8	8q24.3	5	0	1	4	Amplification	5	0	42483T: 3.5; 42496T: 4; 42494T: 3.5; 42495T: 4.5; 56957T: 3.5;
<i>CYP11A1</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CYP11B1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>CYP11B2</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>CYP1A1</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CYP1A2</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CYP1B1</i>	chr2	2p22.2	2	0	0	2	Amplification	2	0	42493T: 3.5; 42500T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>CYP21A2</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>CYP24A1</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CYP26B1</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CYP2A13</i>	chr19	19q13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CYP2A6</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>CYP2A7</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>CYP2B6</i>	chr19	19q13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CYP2B7P1</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>CYP2G1P</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>CYP2W1</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>CYP51A1</i>	chr7	7q21.2	3	0	2	1	Amplification	3	0	42487T: 3.5; 42494T: 3.5; 42483T: 4;
<i>CYP7A1</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>CYP7B1</i>	chr8	8q12.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>CYS1</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>CYTH3</i>	chr7	7p22.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>CYTH4</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DAAMI</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>DAB2</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42483T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>DACT1</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42484T: 3.5; 42493T: 3.5;
<i>DACT3</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42494T: 4;
<i>DAD1</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42484T: 7;
<i>DAG1</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42496T: 4;
<i>DAGLB</i>	chr7	7p22.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DAO</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>DAP</i>	chr5	2q35	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 4;
<i>DAP3</i>	chr1	1p34.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>DAZAP2</i>	chr12	12q13.13	2	0	0	2	Amplification	2	0	42500T: 3.5; 42494T: 5.5;
<i>DBF4</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
<i>DBNDD2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>DBNL</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 4.5;
<i>DBR1</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>DBX2</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DCAF13</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>DCAF4</i>	chr14	14q24.2	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>DCAF4L2</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>DCAF5</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>DCBLD2</i>	chr3	3q12.1 3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>DCD</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>DCDC2B</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DCDC2C</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;

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<i>DCST1</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 6.5; 42496T: 3.5;
<i>DCST2</i>	chr1	1q21.3	2	1	0	0	Amplification	2	0	42496T: 3.5; 42473T: 6.5;
<i>DCSTAMP</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>DCTN1</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DCTN5</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DCTN6</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>DCUNID1</i>	chr3	3q26.33	10	1	3	6	Amplification	10	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42500T: 24; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4; 42498T: 3.5;
<i>DCUNID2</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>DCUNID3</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DCUNID5</i>	chr11	11q22.3	1	0	0	1	Amplification	1	0	56958T: 6;
<i>DCXR</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DDAH2</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DDB2</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DDC</i>	chr7	7p12.2-p12.1	1	0	0	1	Amplification	1	0	42497T: 20.5;
<i>DDHD1</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>DDHD2</i>	chr8	8p11.23	2	0	1	1	Amplification	2	0	42493T: 3.5; 42482T: 3.5;
<i>DDN</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DDO</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>DDOST</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DDRKG1</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DDT</i>	chr22	22q11.23	1	0	1	0	Amplification	1	0	42484T: 3.5;
<i>DDTL</i>	chr22	22q11.23	1	0	1	0	Amplification	1	0	42484T: 3.5;
<i>DDX1</i>	chr2	2p24.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DDX11</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 8;
<i>DDX17</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DDX23</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DDX27</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>DDX39B</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DDX46</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DDX47</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>DDX52</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DDX54</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DDX55</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DDX56</i>	chr7	7p13	2	1	0	0	Amplification	2	0	42473T: 4.5; 42497T: 7.5;
<i>DDX6</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DEC1</i>	chr9	9q33.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>DECRI</i>	chr8	8q21.3	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>DECRI2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>DEDD2</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>DEFA4</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFA5</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFA6</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB1</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB103A</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB103B</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB104A</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB104B</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB105A</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB105B</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB106A</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB106B</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB107A</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB107B</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB115</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>DEFB116</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>DEFB118</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>DEFB119</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>DEFB121</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>DEFB123</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>DEFB124</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>DEFB125</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DEFB126</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DEFB127</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DEFB128</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DEFB129</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DEFB132</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DEFB134</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB135</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB136</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB4A</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DEFB4B</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>DENND2A</i>	chr7	7q34	2	1	1	0	Amplification	2	0	42473T: 3.5; 42487T: 3.5;
<i>DENND3</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 3.5; 42496T: 4; 42483T: 3.5;
<i>DENND4B</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>DENND5B</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 8;
<i>DENR</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DEPTOR</i>	chr8	8q24.12	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>DERA</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>DERL1</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42496T: 3.5; 42475T: 3.5; 42484T: 3.5; 42495T: 3.5;
<i>DEXI</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42495T: 5; 42473T: 5.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>DFNA5</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DFNB59</i>	chr2	2q31.2	1	0	0	0	Amplification	1	0	42493T: 3.5;
<i>DGAT1</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42496T: 4; 42483T: 3.5; 56957T: 3.5; 42495T: 4.5;
<i>DGAT2</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42492T: 4; 42498T: 6.5;
<i>DGCR14</i>	chr22	22q11.21 22	1	0	0	1	Amplification	1	0	42497T: 21;
<i>DGCR2</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 21;
<i>DGCR6</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 21;
<i>DGCR6L</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42477T: 4;
<i>DGKA</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>DGKB</i>	chr7	7p21.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DGKD</i>	chr2	2q37.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>DGKE</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>DGKG</i>	chr3	3q27.2-q27.3	10	1	3	6	Amplification	10	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42497T: 4;
<i>DGKI</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>DGKZ</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DGUOK</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DHCR7</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	56957T: 5; 42498T: 5; 42478T: 4.5; 42475T: 5; 42501T: 6; 42497T: 6.5; 42492T: 4; 42476T: 4;
<i>DHFRL1</i>	chr3	3q11.2	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>DHH</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DHRS2</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>DHRS7</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42494T: 4; 42483T: 3.5;
<i>DHX35</i>	chr20	20q11.23-q1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DHX36</i>	chr3	3q25.2	9	1	2	6	Amplification	9	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42500T: 3.5; 42496T: 4.5; 42497T: 5.5; 42474T: 3.5; 56957T: 4; 42484T: 3.5;
<i>DHX37</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DHX57</i>	chr2	2p22.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DIABLO</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DIDO1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>DIO2</i>	chr14	14q31.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>DIP2B</i>	chr12	12q13.12	2	0	0	2	Amplification	2	0	42494T: 3.5; 42500T: 3.5;
<i>DIRC1</i>	chr2	2q32.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>DIRC2</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>DISP2</i>	chr15	15q15.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DLD</i>	chr7	16q23.1	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 5; 42497T: 4; 42501T: 3.5;
<i>DLEC1</i>	chr3	3p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>DLG1</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 5; 42492T: 3.5; 56957T: 6; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4;
<i>DLGAP1</i>	chr18	18p11.31	3	1	0	2	Amplification	3	0	42481T: 9.5; 56957T: 8; 42493T: 3.5;
<i>DLGAP2</i>	chr8	8p23.3	1	0	0	1	Amplification	1	0	56957T: 4;
<i>DLGAP4</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DLGAP5</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>DLL3</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
<i>DLL4</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>DLST</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>DLX1</i>	chr2	2q31.1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 5;
<i>DLX2</i>	chr2	2q31.1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 5;
<i>DLX5</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>DLX6</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>DMC1</i>	chr22	17q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DMKN</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>DMPK</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>DMRT1</i>	chr9	9p24.3	2	0	1	1	Amplification/Deletion	1	1	42496T: 3.5; 42486T: 0.5;
<i>DMRT2</i>	chr9	9p24.3	2	0	1	1	Amplification/Deletion	1	1	42486T: 0.5; 42496T: 3.5;
<i>DMRT3</i>	chr9	9p24.3	2	0	1	1	Amplification/Deletion	1	1	42486T: 0.5; 42496T: 3.5;
<i>DMRTC2</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>DMTF1</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
<i>DMWD</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>DNAAF2</i>	chr14	14q21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DNAH10</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DNAH11</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DNAH3</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DNAH5</i>	chr5	5p15.2	5	1	2	2	Amplification	5	0	42484T: 3.5; 42493T: 4; 42496T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>DNAH6</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DNAH7</i>	chr2	2q32.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42482T: 4;
<i>DNAJA3</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42494T: 3.5; 42495T: 8.5; 42473T: 5.5;
<i>DNAJA4</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DNAJB11</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42497T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4;
<i>DNAJB13</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42476T: 4; 42475T: 7.5; 42498T: 8; 42492T: 4; 42478T: 6; 56957T: 3.5;
<i>DNAJB5</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>DNAJB8</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>DNAJB9</i>	chr7	7q31.1 14q2	3	0	1	2	Amplification	3	0	42497T: 4; 42501T: 3.5; 42487T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>DNAJC10</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 4;
<i>DNAJC13</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42487T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>DNAJC17</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>DNAJC19</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	56957T: 4; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4; 42500T: 24; 42497T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>DNAJC2</i>	chr7	7q22.1	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42501T: 3.5; 42497T: 4;
<i>DNAJC21</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>DNAJC22</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DNAJC27</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DNAJC5</i>	chr20	20q13.33	2	1	1	0	Amplification	2	0	42473T: 6; 42483T: 3.5;
<i>DNAJC5B</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42495T: 3.5; 42497T: 4; 42496T: 3.5;
<i>DNAJC5G</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DNAJC8</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DNAL1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>DNAL4</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DNASE1</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>DNASE1L2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>DNLZ</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>DNM1L</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DNMT3A</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DNMT3B</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
<i>DNMT3P1</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>DOCK4</i>	chr7	7q31.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42501T: 3.5;
<i>DOCK8</i>	chr9	9p24.3	2	0	1	1	Amplification/Deletio	1	1	42486T: 0.5; 42496T: 3.5;
<i>DOK1</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DOK5</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>DOM3Z</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DPF1</i>	chr19	19q13.2	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>DPF3</i>	chr14	14q24.2	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>DPH7</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>DPM1</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>DPM3</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>DPP3</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5.5;
<i>DPP7</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>DPPA3P2</i>	chr14	14q13.3	2	1	0	1	Amplification	2	0	42500T: 8.5; 42476T: 8;
<i>DPY19L1</i>	chr7	7p14.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DPY19L2P1</i>	chr7	7p14.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>DPY19L2P2</i>	chr7	7q22.1	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42501T: 3.5; 42497T: 3.5;
<i>DPY19L3</i>	chr19	19q13.11	5	1	1	3	Amplification	5	0	42494T: 4; 56957T: 4; 42484T: 6; 42500T: 4.5; 42473T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>DPY19L4</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>DPY30</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DPYS</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>DPYSL5</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DQX1</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DRC1</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DRD3</i>	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>DROSHA</i>	chr5	5p13.3	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>DSCAM</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DSCC1</i>	chr8	8q24.12	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>DSNI</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DST</i>	chr6	6p12.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>DTD2</i>	chr14	14q12	3	0	0	3	Amplification	3	0	56957T: 4; 42494T: 3.5; 42500T: 4.5;
<i>DTNB</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DTX1</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DTX2</i>	chr7	7q11.23	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>DTX2P1</i>	chr7	7q11.23	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>DTX3L</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>DUSIL</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DUS4L</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42497T: 4; 42501T: 3.5;
<i>DUSP11</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DUSP14</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>DUSP15</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>DUSP19</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>DUSP2</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>DUSP26</i>	chr8	2q37.3	2	0	1	1	Amplification	2	0	42482T: 3.5; 42497T: 4.5;
<i>DUSP4</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>DVL3</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42473T: 3.5; 42497T: 4; 42484T: 4; 42498T: 3.5; 42495T: 4; 42494T: 3.5; 42474T: 3.5; 56957T: 5;
<i>DYNC1H1</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>DYNC2H1</i>	chr11	11q22.3	1	0	0	1	Amplification	2	0	56958T: 6.4;
<i>DYNC2L1</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>DYNLL1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DYNLL2</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>DYNLRB1</i>	chr20	20q11.22	3	1	0	2	Amplification	3	0	42493T: 3.5; 42473T: 3.5; 42496T: 5;
<i>DYRK1B</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
<i>DYRK2</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 6.5;
<i>DYSF</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>DZIP1L</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>E2F1</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>E2F2</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>E2F5</i>	chr8	8q21.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>E2F6</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>E4F1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>EAF2</i>	chr3	1p34.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>EAPP</i>	chr14	14q13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>EARS2</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>EBAG9</i>	chr8	8q23.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>EBF4</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EBNA1BP2</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 5.5;
<i>ECE1</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ECE2</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42497T: 4; 42473T: 3.5; 42474T: 3.5; 42495T: 4; 42494T: 3.5; 56957T: 5; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>ECH1</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>ECI1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>ECM1</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42473T: 5; 42493T: 3.5;
<i>ECT2</i>	chr3	3q26.31	9	1	3	5	Amplification	9	0	42484T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5; 42500T: 9; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5;
<i>EDC3</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EDEM2</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>EDF1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>EDN3</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>EEF1A2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>EEF1D</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>EEF2K</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>EEFSEC</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>EEPDI</i>	chr7	7p14.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>EFCAB1</i>	chr8	8q11.21	5	0	2	3	Amplification	5	0	42484T: 3.5; 42494T: 3.5; 42495T: 3.5; 42482T: 3.5; 42496T: 3.5;
<i>EFCAB10</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42497T: 4; 42501T: 3.5;
<i>EFCAB12</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>EFCAB4B</i>	chr12	12p13.32	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>EFCAB8</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>EFCC1</i>	chr3	3q21.3	3	0	1	2	Amplification	3	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>EFEMP1</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	56957T: 3.5; 42484T: 4.5; 42500T: 3.5;
<i>EFNA1</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>EFNA3</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 6.5; 42496T: 3.5;
<i>EFNA4</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 6.5;
<i>EFR3A</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>EFR3B</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EFS</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42496T: 4; 42500T: 4;
<i>EGFEM1P</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4; 42500T: 8;
<i>EGFL7</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>EGFL8</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EGFLAM</i>	chr5	5p13.2-p13.1	6	1	3	2	Amplification	6	0	42493T: 3.5; 42484T: 3.5; 42475T: 3.5; 42486T: 3.5; 42483T: 3.5; 42496T: 3.5;
<i>EGFR</i>	chr7	7p11.2	3	0	1	2	Amplification	3	0	56957T: 5; 42483T: 4; 42497T: 21.5;
<i>EGLN2</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>EGLN3</i>	chr14	14q13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>EGR1</i>	chr5	5q31.2	1	0	0	1	Amplification	1	0	42495T: 3.5;
<i>EGR4</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EHBP1</i>	chr2	2p15	3	0	1	2	Amplification	3	0	42500T: 3.5; 42484T: 3.5; 56957T: 3.5;
<i>EHD3</i>	chr2	2p23.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EHF</i>	chr11	11p13	2	1	0	1	Amplification	2	0	42493T: 4; 42473T: 4.5;
<i>EHHADH</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5; 42497T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>EHMT1</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>EHMT2</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EID2</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
<i>EID2B</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
<i>EIF2A</i>	chr3	3q25.1	9	2	2	5	Amplification	9	0	56957T: 4; 42474T: 3.5; 42484T: 3.5; 42496T: 4; 42473T: 4; 42497T: 4.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>EIF2AK1</i>	chr7	7p22.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>EIF2AK2</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EIF2AK3</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EIF2B1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EIF2B2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>EIF2B4</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EIF2B5</i>	chr3	3q27.1	11	1	3	7	Amplification	11	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42497T: 4; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42494T: 3.5; 42495T: 4; 56957T: 5;
<i>EIF2S1</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>EIF2S2</i>	chr20	20q11.22	3	1	0	2	Amplification	3	0	42496T: 5; 42473T: 3.5; 42493T: 3.5;
<i>EIF3B</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>EIF3D</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EIF3E</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>EIF3H</i>	chr8	8q23.3-q24.1	3	1	0	2	Amplification	3	0	42496T: 3.5; 42475T: 3.5; 42495T: 3.5;
<i>EIF3I</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>EIF3K</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>EIF3L</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EIF4A2</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42497T: 4; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>EIF4A3</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EIF4B</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>EIF4EBP1</i>	chr8	8p11.23	2	0	1	1	Amplification	2	0	42493T: 3.5; 42482T: 3.5;
<i>EIF4G1</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 42495T: 4; 42494T: 3.5; 42474T: 3.5; 56957T: 5; 42484T: 4; 42498T: 3.5; 42473T: 3.5; 42497T: 4;
<i>EIF4G3</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>EIF5A2</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42500T: 8; 42484T: 4; 42474T: 3.5; 42495T: 4; 56957T: 4;
<i>EIF5B</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>EIF6</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>ELAC1</i>	chr18	18q21.2	1	0	0	1	Deletion	0	1	56957T: 0;
<i>ELANE</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ELF5</i>	chr11	11p13	2	1	0	1	Amplification	2	0	42493T: 4; 42473T: 4.5;
<i>ELFN1</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ELFN2</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ELMO1</i>	chr7	7p14.2-p14.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ELMO2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ELMOD3</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ELMSAN1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>ELOVL1</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>EMB</i>	chr5	5q11.1	2	1	0	1	Amplification	2	0	42475T: 3.5; 42498T: 10.5;
<i>EMC1</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>EMC2</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>EME1</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EME2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>EMILIN1</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EMILIN2</i>	chr18	18p11.32-p11.31	2	0	0	2	Amplification	2	0	56957T: 8; 42500T: 4.5;
<i>EMILIN3</i>	chr20	20q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EML2</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>EML4</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>EMP1</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>EMP2</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42495T: 5; 42473T: 5.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>EMX1</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ENAH</i>	chr1	1q42.12	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ENO2</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>ENOSF1</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	42500T: 4.5; 56957T: 8; 42493T: 3.5;
<i>ENPP2</i>	chr8	8q24.12	3	1	0	2	Amplification	3	0	42496T: 3.5; 42475T: 3.5; 42495T: 3.5;
<i>ENPP7</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ENSA</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 4.5;
<i>ENTHD1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ENTPD2</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>ENTPD5</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>ENTPD8</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>ENY2</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>EPAS1</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>EPB41</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EPB41L1</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EPB41L3</i>	chr18	18p11.31	2	1	0	1	Amplification/Deletio	1	1	56957T: 8; 42481T: 0.5;
<i>EPB41L4B</i>	chr9	9q31.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>EPCAM</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>EPDR1</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>EPHA1</i>	chr7	7q34-q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>EPHA2</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>EPHA6</i>	chr3	3q11.2	2	1	0	1	Amplification	2	0	42476T: 3.5; 42500T: 3.5;
<i>EPHA8</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>EPHB1</i>	chr3	3q22.2	4	0	1	3	Amplification	4	0	42496T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>EPHB2</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EPHB3</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42473T: 4; 42497T: 4; 42474T: 3.5; 42495T: 4; 42494T: 3.5; 56957T: 5; 42484T: 4; 42498T: 3.5;
<i>EPHB6</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>EPHX1</i>	chr1	1q42.12	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>EPN1</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>EPN3</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>EPPIN</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>EPPK1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>EPS8</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>EPS8L3</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>EPT1</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EPX</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>ERBB2</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42473T: 6; 42497T: 3.5;
<i>ERBB3</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 9.5;
<i>ERCC1</i>	chr19	19q13.32	2	1	1	0	Amplification	2	0	42484T: 4; 42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>ERCC2</i>	chr19	19q13.32	3	1	1	1	Amplification	3	0	42484T: 4; 56957T: 4; 42473T: 3.5;
<i>ERCC4</i>	chr16	16p13.12	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>ERF</i>	chr19	5q31.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ERGIC2</i>	chr12	12p11.22	1	0	0	1	Amplification	1	0	42500T: 6;
<i>ERGIC3</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>ERH</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ERI1</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>ERI2</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ERLEC1</i>	chr2	2p16.2	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>ERLIN2</i>	chr8	8p11.23	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>ERMAP</i>	chr1	1p34.2	2	0	0	2	Amplification	2	0	42496T: 5.5; 42493T: 6;
<i>ERMP1</i>	chr9	9p24.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42498T: 14;
<i>ERN2</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ERO1L</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ERP27</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>ERP29</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ERV3</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>ESPNL</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ESPNP</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ESR2</i>	chr14	14q23.2-q23	1	0	0	1	Amplification	1	0	42494T: 4;
<i>ESRP1</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>ESRRB</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>ESYT1</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>ESYT3</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42496T: 3.5;
<i>ETF1</i>	chr5	5q31.2	1	0	0	1	Amplification	1	0	42495T: 3.5;
<i>ETHE1</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>ETNK1</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>ETS2</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ETV1</i>	chr7	7p21.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ETV2</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>ETV3</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>ETV3L</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>ETV5</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42497T: 4; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42482T: 3.5; 42492T: 3.5;
<i>ETV6</i>	chr12	12p13.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>EVA1A</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EVI2A</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EVI2B</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EVPL</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>EVX1</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>EVX2</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>EXD2</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>EXD3</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>EXOC3</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42486T: 3.5; 42473T: 3.5; 42496T: 4; 42475T: 3.5; 42493T: 3.5;
<i>EXOC3L2</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>EXOC4</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>EXOC5</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>EXOC6B</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>EXOSC4</i>	chr8	8q24.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>EXOSC5</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>EXT1</i>	chr8	8q24.11	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>EYA1</i>	chr8	8q13.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>EYA2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>EYA3</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>EZH2</i>	chr7	7q36.1	2	0	1	1	Amplification	2	0	42500T: 4; 42487T: 3.5;
<i>EZR</i>	chr6	6q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>F10</i>	chr13	20p13	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>F2</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>F7</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>FABP1</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FABP12</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>FABP3</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FABP4</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>FABP5</i>	chr8	13q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>FABP9</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>FADD</i>	chr11	11q13.3	12	3	2	7	Amplification	12	0	56957T: 5; 42478T: 4.5; 42498T: 7; 42475T: 7.5; 42501T: 6; 42500T: 13; 56958T: 9; 42483T: 9; 42486T: 13.5; 42497T: 6.5; 42492T: 4; 42476T: 13.5;
<i>FAHD1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>FAHD2A</i>	chr2	2q11.1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4;
<i>FAHD2B</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4.5;
<i>FAHD2CP</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4;
<i>FAIM</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>FAIM2</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM101A</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM105A</i>	chr5	5p15.2	5	1	2	2	Amplification	5	0	42475T: 3.5; 42486T: 3.5; 42496T: 3.5; 42493T: 4; 42484T: 3.5;
<i>FAM105B</i>	chr5	5p15.2	5	1	2	2	Amplification	5	0	42484T: 3.5; 42493T: 4; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>FAM109A</i>	chr12	12q24.12	1	0	0	1	Amplification	1	0	42500T: 3.5;

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<i>FAM110B</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>FAM110C</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM114A1</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FAM115A</i>	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FAM115C</i>	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FAM126A</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FAM131A</i>	chr3	3q27.1	11	1	3	7	Amplification	11	0	42498T: 3.5; 42484T: 4; 56957T: 5; 42474T: 3.5; 42495T: 4; 42494T: 3.5; 42497T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>FAM131B</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FAM131C</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>FAM132B</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FAM133B</i>	chr7	7q21.2	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>FAM134B</i>	chr5	5p15.1	4	1	1	2	Amplification	4	0	42493T: 4; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>FAM135B</i>	chr8	8q24.23	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>FAM136A</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM150A</i>	chr8	8q11.23	4	0	1	3	Amplification	4	0	42496T: 3.5; 42495T: 3.5; 42494T: 3.5; 42484T: 5;
<i>FAM150B</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM161A</i>	chr2	2p15	3	0	1	2	Amplification	3	0	56957T: 3.5; 42484T: 8.5; 42500T: 3.5;
<i>FAM161B</i>	chr14	14q24.3	2	0	2	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>FAM162A</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>FAM166A</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>FAM166B</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42501T: 3.5; 42473T: 3.5;
<i>FAM167A</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>FAM167B</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FAM168A</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42475T: 8.5; 42476T: 4; 56957T: 3.5; 42478T: 4.5; 42492T: 4; 42498T: 6.5;
<i>FAM171B</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>FAM173B</i>	chr5	5p15.2	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>FAM177A1</i>	chr14	14q13.2	2	1	0	1	Amplification	2	0	42476T: 5; 42500T: 4.5;
<i>FAM178B</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4.5;
<i>FAM179A</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM179B</i>	chr14	14q21.2	1	0	0	1	Amplification	1	0	42500T: 5.5;
<i>FAM180A</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FAM180B</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FAM183A</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 6;
<i>FAM183B</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FAM185A</i>	chr7	7q22.1	3	0	1	2	Amplification	3	0	42493T: 3.5; 42487T: 3.5; 42501T: 3.5;
<i>FAM186A</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM186B</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM187B</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>FAM188B</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FAM188B2</i>	chr3	3q25.1	10	2	2	6	Amplification	10	0	42474T: 3.5; 56957T: 4; 42484T: 3.5; 42500T: 3.5; 42497T: 4.5; 42473T: 4; 42496T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>FAM189B</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>FAM194A</i>	chr3	3q25.1	10	2	2	6	Amplification	10	0	42500T: 3.5; 42473T: 4; 42497T: 4.5; 42496T: 4; 42474T: 3.5; 56957T: 4; 42484T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>FAM195A</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
<i>FAM203A</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>FAM203B</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>FAM205A</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>FAM205B</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>FAM209A</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FAM209B</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FAM20C</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FAM210B</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FAM214B</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>FAM216A</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM217B</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>FAM220A</i>	chr7	7p22.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>FAM221A</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FAM221B</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42501T: 3.5; 42473T: 3.5;
<i>FAM222A</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>FAM227A</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FAM228A</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM228B</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM229A</i>	chr1	1p35.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FAM229B</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>FAM3B</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FAM3C</i>	chr7	7q31.31	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FAM43B</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FAM49A</i>	chr2	2p24.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM49B</i>	chr8	8q24.21	3	0	1	2	Amplification	3	0	42495T: 3.5; 42484T: 3.5; 42496T: 3.5;
<i>FAM60A</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 8;
<i>FAM63A</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>FAM65C</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>FAM69B</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>FAM71C</i>	chr12	12q23.1	1	0	0	1	Deletion	0	1	42495T: 0.5;
<i>FAM71D</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>FAM71F1</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>FAM71F2</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FAM76A</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FAM78A</i>	chr9	9q34.13	1	0	1	0	Amplification	1	0	42484T: 4;
<i>FAM83A</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5; 42484T: 3.5;
<i>FAM83C</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>FAM83D</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FAM83F</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FAM83H</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>FAM84B</i>	chr8	8q24.21	4	1	1	2	Amplification	4	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>FAM86C2P</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5;
<i>FAM91A1</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>FAM92A1</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>FAM98A</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FAM98C</i>	chr19	19q13.2	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>FANCG</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>FANCI</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FANCL</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42484T: 4.5; 56957T: 3.5; 42500T: 3.5;
<i>FANCM</i>	chr14	14q21.2	1	0	0	1	Amplification	1	0	42500T: 5.5;
<i>FAR2</i>	chr12	12p11.22	1	0	0	1	Amplification	1	0	42500T: 6;
<i>FASN</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FASTKD3</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42486T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 4;
<i>FASTKD5</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FBF1</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>FBL</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
<i>FBRSL1</i>	chr12	12q24.33	1	0	0	1	Amplification	1	0	56957T: 4;
<i>FBXL13</i>	chr7	7q22.1	3	0	1	2	Amplification	3	0	42487T: 3.5; 42493T: 3.5; 42501T: 3.5;
<i>FBXL14</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FBXL16</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>FBXL18</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 8.5; 42473T: 4.5;
<i>FBXL20</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42497T: 3.5; 42473T: 4.5;
<i>FBXL6</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42495T: 4.5; 56957T: 3.5; 42483T: 3.5; 42496T: 4;
<i>FBXL7</i>	chr5	5p15.1	5	1	2	2	Amplification	5	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 4; 42484T: 3.5;
<i>FBXO11</i>	chr2	2p16.3	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>FBXO17</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>FBXO21</i>	chr12	12q24.22	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FBXO27</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>FBXO32</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42495T: 3.5; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>FBXO33</i>	chr14	14q21.1	1	0	0	1	Amplification	1	0	42500T: 6.5;
<i>FBXO34</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>FBXO4</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42493T: 3.5; 42484T: 3.5; 42475T: 3.5; 42486T: 3.5; 42483T: 3.5; 42496T: 3.5;
<i>FBXO40</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>FBXO41</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FBXO42</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>FBXO43</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>FBXO45</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 5; 42492T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 6; 42484T: 4; 42498T: 3.5;
<i>FBXO46</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>FBXO47</i>	chr17	17q12 17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FBXO48</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FBXW5</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>FBXW8</i>	chr12	12q24.22	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FCF1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>FCGBP</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
<i>FCGRI1A</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FCGRI1B</i>	chr1	1p11.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FCGRI1C</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FCHSD2</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42476T: 4; 42475T: 8.5; 42478T: 4.5; 42492T: 4; 42498T: 6.5; 56957T: 3.5;
<i>FCN3</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FCRL1</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FCRL2</i>	chr1	1q23.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FCRL3</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FCRL4</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FCRL5</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FDFT1</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>FDPS</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>FER1L4</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>FER1L6</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5; 42484T: 3.5;
<i>FERD3L</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FERMT2</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>FETUB</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42497T: 4; 56957T: 4.5; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4;
<i>FEV</i>	chr2	2q35	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FEZ2</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FEZF1</i>	chr7	7q31.32	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FFAR1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>FFAR2</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>FFAR3</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>FGD2</i>	chr6	8q11.2-q13.2	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>FGD4</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FGF10</i>	chr5	5p12	4	1	1	2	Amplification	4	0	42493T: 3.5; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>FGF12</i>	chr3	3q28-q29	10	1	3	6	Amplification	10	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42501T: 3.5; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5;
<i>FGF19</i>	chr11	11q13.3	11	3	2	6	Amplification	11	0	42476T: 29.5; 42492T: 4; 42501T: 6; 42475T: 7.5; 42500T: 13; 56958T: 5; 42486T: 13.5; 42483T: 14.5; 42497T: 4.5; 42478T: 4.5; 42498T: 9.5;
<i>FGF23</i>	chr12	12p13.32	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>FGF3</i>	chr11	11q13.3	12	3	2	7	Amplification	12	0	42476T: 29.5; 42492T: 4; 42501T: 6; 42475T: 7.5; 56958T: 5; 42500T: 13; 42486T: 13.5; 42483T: 14.5; 42497T: 4.5; 56957T: 5; 42478T: 4.5; 42498T: 9.5;
<i>FGF4</i>	chr11	11q13.3	8	2	1	5	Amplification	8	0	56957T: 5; 42478T: 4.5; 42498T: 9.5; 42501T: 6; 42475T: 7.5; 56958T: 5; 42483T: 14.5; 42497T: 4.5;
<i>FGFR1</i>	chr8	8p11.23	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>FGFR1OP2</i>	chr12	12p11.23	1	0	0	1	Amplification	1	0	42500T: 6;
<i>FGL2</i>	chr7	7q11.23	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FGR</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FHL2</i>	chr2	2q12.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>FIG4</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>FIGLA</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FILIP1L</i>	chr3	3q12.1	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>FIS1</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42501T: 3.5; 42493T: 3.5;
<i>FITM2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FIZ1</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>FKBP11</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FKBP14</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FKBP1A</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FKBP1B</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FKBP3</i>	chr14	14q21.2	1	0	0	1	Amplification	1	0	42500T: 5.5;
<i>FKBP7</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>FKBP8</i>	chr19	19p13.11	1	0	0	1	Amplification	1	0	42494T: 4;
<i>FKBP9</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FKBP9L</i>	chr7	7p11.2	3	0	1	2	Amplification	3	0	42483T: 4; 42497T: 6.5; 56957T: 5;
<i>FKBPL</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FLAD1</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 6.5; 42496T: 3.5;
<i>FLG</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>FLG2</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>FLNC</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>FLVCR2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>FMNL3</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FMO5</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FNBP4</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FNDC3B</i>	chr3	3q26.31	9	1	3	5	Amplification	9	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 56957T: 4; 42495T: 4; 42474T: 3.5; 42484T: 4; 42500T: 9;
<i>FNDC4</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FNTA</i>	chr8	8p11.21	1	0	1	0	Amplification	1	0	42483T: 4.5;
<i>FNTB</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>FOCAD</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>FOLH1</i>	chr11	11p11.12	1	0	0	1	Amplification	1	0	56957T: 8;
<i>FOLR1</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	42498T: 5; 42478T: 4.5; 56957T: 3.5; 42501T: 6; 42475T: 5; 42492T: 4; 42493T: 3.5; 42476T: 4;
<i>FOLR2</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	42476T: 4; 42492T: 4; 42493T: 3.5; 42475T: 5; 42501T: 6; 42498T: 5; 42478T: 4.5; 56957T: 3.5;
<i>FOLR3</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	42501T: 6; 42475T: 5; 42498T: 5; 42478T: 4.5; 56957T: 3.5; 42476T: 4; 42492T: 4; 42493T: 3.5;
<i>FOPNL</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>FOS</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>FOSB</i>	chr19	19q13.32	2	1	1	0	Amplification	2	0	42473T: 3.5; 42484T: 4;
<i>FOSL2</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FOXA1</i>	chr14	14q21.1	2	1	0	1	Amplification	2	0	42476T: 11; 42500T: 6.5;
<i>FOXA3</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>FOXG1</i>	chr14	14q12	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>FOXH1</i>	chr8	8q24.3	5	0	1	4	Amplification	5	0	42483T: 3.5; 42496T: 4; 42495T: 4.5; 42494T: 3.5; 56957T: 3.5;
<i>FOXI3</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FO XK1</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 8.5; 42473T: 4.5;
<i>FOXL2</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>FOXN2</i>	chr2	2p16.3	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>FOXN4</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4.5;
<i>FOXO3</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>FOXP2</i>	chr7	7q31.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FOXR1</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>FOXRED2</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FOXS1</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>FREM1</i>	chr9	9p22.3	1	0	0	1	Amplification	1	0	42498T: 14.5;
<i>FRMD6</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>FRRS1L</i>	chr9	9q31.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>FRS2</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 5.5; 42500T: 5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>FRY</i>	chr13	13q13.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>FRYL</i>	chr4	4p11	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>FRZB</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>FSBP</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>FSCB</i>	chr14	14q21.2	1	0	0	1	Amplification	1	0	42500T: 5.5;
<i>FSCN1</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 10.5; 42473T: 4.5;
<i>FSCN3</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>FSHR</i>	chr2	2p16.3	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>FSIP2</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>FSTL1</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>FTCDNL1</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 5;
<i>FTSJ2</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>FTSID2</i>	chr6	6p21.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>FUCA1</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>FUNDC2P2</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>FUT10</i>	chr8	8p12	2	0	1	1	Amplification	2	0	42497T: 4.5; 42482T: 3.5;
<i>FUT11</i>	chr10	10q22.2	2	1	0	1	Amplification	2	0	42473T: 4.5; 42496T: 3.5;
<i>FUT7</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>FUT8</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>FXR1</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5; 42498T: 3.5; 42484T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5; 42497T: 4; 42500T: 14;
<i>FXYD1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>FXYD3</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>FXYD5</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>FXYD7</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>FYN</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>FYTTD1</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42492T: 3.5; 42487T: 3.5; 42493T: 4; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 6;
<i>FZD1</i>	chr7	7q21.13	3	0	2	1	Amplification	3	0	42494T: 3.5; 42487T: 3.5; 42483T: 4;
<i>FZD6</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>G2E3</i>	chr14	14q12	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 4.5;
<i>GAA</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GABPB2</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GAL</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42476T: 29.5; 56957T: 5;
<i>GALE</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GALK1</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>GALM</i>	chr2	2p22.1	2	0	0	2	Amplification	2	0	42500T: 3.5; 42493T: 3.5;
<i>GALNT14</i>	chr2	2p23.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GALNT16</i>	chr14	7q11.22	1	0	0	1	Amplification	1	0	42494T: 4;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>GALNT6</i>	chr12	12q13.13	2	0	0	2	Amplification	2	0	42500T: 3.5; 42494T: 3.5;
<i>GALNT9</i>	chr12	12q24.33	1	0	0	1	Amplification	1	0	56957T: 4;
<i>GALR2</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>GALR3</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GAP43</i>	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GAPDHS</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>GAREML</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GARS</i>	chr7	21q22.11	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GAS6</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>GATA2</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>GATA4</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>GATA5</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>GATAD1</i>	chr7	7q21.2	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 4;
<i>GATAD2B</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GATC</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GATSL3</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GBA</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>GBA2</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42501T: 3.5; 42473T: 3.5;
<i>GBAP1</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>GBAS</i>	chr7	7p11.2	2	0	1	1	Amplification	2	0	42483T: 4; 56957T: 5;
<i>GCAT</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GCCI</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>GCFC2</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GCHI</i>	chr14	14q22.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>GCHFR</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>GCK</i>	chr7	11q13.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 7.5;
<i>GCKR</i>	chr2	14q22.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GCNIL1</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GCNT7</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 5;
<i>GCSAM</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GDAP1L1</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GDE1</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GDF11</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>GDF5</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>GDF5OS</i>	chr20	20q11.2	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>GDF6</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>GDF7</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GDNF</i>	chr5	5p13.2	6	1	3	2	Amplification	6	0	42493T: 3.5; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5; 42483T: 3.5; 42486T: 3.5;
<i>GDPD5</i>	chr11	11q13.4-q13	2	0	0	2	Amplification	2	0	42492T: 4; 42498T: 6.5;
<i>GDPGP1</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>GEM</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>GEMIN2</i>	chr14	14q21.1	2	1	0	1	Amplification	2	0	42500T: 6.5; 42473T: 3.5;
<i>GEMIN6</i>	chr2	2p22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42500T: 3.5;
<i>GEMIN7</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
<i>GEN1</i>	chr2	2p24.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GET4</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>GFER</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>GFM1</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	42497T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>GFPT1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GFRA4</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 6;
<i>GGAI</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GGA2</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GGA3</i>	chr17	17q25.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GGCT</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GGCX</i>	chr2	2p11.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42482T: 3.5;
<i>GGH</i>	chr8	8q12.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>GGN</i>	chr19	19q13.2	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>GGT7</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>GGTLC2</i>	chr22	22q11.22	1	1	0	0	Amplification	1	0	42477T: 4;
<i>GHR</i>	chr5	5p13.1-p12	5	1	2	2	Amplification	5	0	42493T: 3.5; 42496T: 3.5; 42483T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>GHRH</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GHRHR</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GHSR</i>	chr3	3q26.31	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42500T: 9; 42484T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4;
<i>GIPR</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>GIT2</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>GJA5</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GJA8</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GK5</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>GKN1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GKN2</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GLB1L2</i>	chr11	11q25	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>GLB1L3</i>	chr11	11q25	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>GLCC11</i>	chr7	7p21.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42497T: 7.5;
<i>GLDC</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GLI2</i>	chr2	2q14.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>GLI3</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GLI4</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>GLIPR2</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>GLIS2</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42494T: 3.5; 42495T: 8.5; 42473T: 5.5;
<i>GLIS3</i>	chr9	9p24.2	2	0	0	2	Amplification	2	0	42498T: 4; 42496T: 3.5;
<i>GLS</i>	chr2	12q13.3	3	0	1	2	Amplification	3	0	42494T: 3.5; 42493T: 3.5; 42482T: 4;
<i>GLT6D1</i>	chr9	9q34.3	2	0	1	1	Amplification	2	0	56957T: 3.5; 42484T: 4.5;
<i>GLTP</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>GLUDIP3</i>	chr10	10q22.2	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 4.5;
<i>GLYCAM1</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>GLYR1</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 12;
<i>GMCL1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GMEB1</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GMEB2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>GMFB</i>	chr14	14q22.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>GMFG</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>GML</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>GMNC</i>	chr3	3q28	9	1	3	5	Amplification	9	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5;
<i>GMPS</i>	chr3	3q25.31	7	1	2	4	Amplification	7	0	42497T: 5.5; 42474T: 3.5; 42493T: 3.5; 56957T: 4; 42487T: 3.5; 42484T: 3.5; 42492T: 3.5;
<i>GNAI2</i>	chr7	7p22.3-p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GNAI1</i>	chr7	7q21.11	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>GNAI3</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GNAL</i>	chr18	18p11.21	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>GNAS</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GNAT2</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GNAT3</i>	chr7	7q21.11	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>GNB1L</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>GNB2L1</i>	chr5	5q35.3	1	0	0	1	Amplification	1	0	42495T: 3.5;
<i>GNB4</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42500T: 14; 42497T: 4; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>GNE</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>GNG11</i>	chr7	7q21.3	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>GNG13</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>GNG2</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>GNG8</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 7;
<i>GNGT1</i>	chr7	7q21.3	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 4;
<i>GNLY</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GNPNAT1</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>GNPTG</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>GNRH2</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GNRHR2</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GOLGB1</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GOLIM4</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42500T: 8; 56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>GOLPH3</i>	chr5	5p13.3	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>GOLPH3L</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 3.5;
<i>GOLT1B</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>GON4L</i>	chr1	1q22	1	1	0	0	Amplification	2	0	42473T: 5.5,4.5;
<i>GOTIL1</i>	chr8	8p11.23	2	0	1	1	Amplification	2	0	42493T: 3.5; 42482T: 3.5;
<i>GPIBB</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>GP2</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GP5</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42474T: 3.5; 42495T: 4;
<i>GP9</i>	chr3	3q21.3	3	0	1	2	Amplification	3	0	42493T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>GPAA1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>GPANK1</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GPAT2</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4;
<i>GPATCH1</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	56957T: 4; 42484T: 3.5; 42500T: 4.5; 42473T: 7;
<i>GPATCH11</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GPATCH2L</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>GPATCH4</i>	chr1	1q22-q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>GPD1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GPER</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>GPHB5</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>GPHN</i>	chr14	14q23.3-q24	1	0	0	1	Amplification	1	0	42494T: 4;
<i>GPI</i>	chr19	5q31.3	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 4.5;
<i>GPIHBP1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>GPN1</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GPN3</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GPNMB</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GPR113</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GPR124</i>	chr8	8p11.23	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>GPR128</i>	chr3	3q12.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>GPR137C</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>GPR139</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GPR141</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GPR146</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>GPR149</i>	chr3	3q25.2	9	1	2	6	Amplification	9	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42500T: 3.5; 42497T: 5.5; 42496T: 4.5; 56957T: 4; 42474T: 3.5; 42484T: 3.5;
<i>GPR15</i>	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>GPR152</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>GPR155</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>GPR156</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GPR160</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4; 42500T: 8; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>GPR162</i>	chr12	12p13.31	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>GPR171</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42484T: 3.5; 42474T: 3.5; 56957T: 4; 42497T: 5.5; 42496T: 4; 42500T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>GPR179</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GPR19</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>GPR20</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 3.5;
<i>GPR3</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 5;
<i>GPR37</i>	chr7	7q31.33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>GPR4</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>GPR42</i>	chr19	19q13.12	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>GPR6</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GPR75</i>	chr2	2p16.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>GPR84</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42494T: 3.5; 42473T: 3.5;
<i>GPR85</i>	chr7	7q31.1	2	0	1	1	Amplification	2	0	42501T: 3.5; 42487T: 3.5;
<i>GPR87</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42500T: 3.5; 42496T: 4; 42497T: 5.5; 56957T: 4; 42474T: 3.5; 42484T: 3.5;
<i>GPR89A</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GPR89B</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GPR89C</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GPRC5A</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>GPRC5B</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GPRC5D</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>GPS1</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GPSM1</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>GPSM3</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GPT</i>	chr8	8q24.3	5	0	1	4	Amplification	5	0	42483T: 3.5; 42496T: 4; 42495T: 4.5; 42494T: 3.5; 56957T: 3.5;
<i>GPX1</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GPX2</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>GRAMD1A</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>GRAMD1C</i>	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GRAMD4</i>	chr22	22q13.31	1	0	0	1	Amplification	1	0	42495T: 4;
<i>GRAP2</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GRB10</i>	chr7	7p12.1	1	0	0	1	Amplification	1	0	42497T: 20.5;
<i>GRB2</i>	chr17	17q25.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>GRB7</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42497T: 3.5; 42473T: 6;
<i>GREB1</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GRHL1</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GRHL2</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>GRHL3</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GRID2IP</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 5;
<i>GRIFIN</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>GRIK5</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GRIN1</i>	chr9	5q35.2	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>GRIN2A</i>	chr16	16p13.2	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>GRIN2B</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>GRIN3B</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>GRINA</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>GRIP1</i>	chr12	11q12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>GRK1</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>GRK7</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>GRM3</i>	chr7	7q21.11-q21	2	0	2	0	Amplification	2	0	42483T: 6; 42487T: 3.5;
<i>GRM8</i>	chr7	7q31.33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>GRTP1</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>GSAP</i>	chr7	7q11.23	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>GSC2</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 21;
<i>GSDMA</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>GSDMB</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>GSDMC</i>	chr8	8q24.21	3	0	1	2	Amplification	3	0	42496T: 3.5; 42484T: 3.5; 42495T: 3.5;
<i>GSDMD</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>GSG1</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>GSK3A</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GSK3B</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GSPT1</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>GSR</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>GSS</i>	chr20	20p13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>GSTK1</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>GSTM1</i>	chr1	1p13.3	2	1	1	0	Amplification	2	0	42487T: 4; 42473T: 4.5;
<i>GSTM2</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GSTM3</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>GSTM4</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GSTM5</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>GSTP1</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>GSTT1</i>	chr22	22q11.23	1	0	1	0	Deletion	0	1	42484T: 0;
<i>GSTT2</i>	chr22	22q11.23	1	0	1	0	Amplification	1	0	42484T: 3.5;
<i>GSTT2B</i>	chr22	22q11.23	1	0	1	0	Amplification	1	0	42484T: 3.5;
<i>GSTZ1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>GTF2A1L</i>	chr2	2p16.3	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>GTF2E1</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GTF2E2</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>GTF2H3</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GTF3C2</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GTF3C3</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>GTF3C6</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GTPBP1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GTPBP10</i>	chr7	7q21.13	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
<i>GTPBP8</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>GTSF1</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>GTSF1L</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GUCY2C</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>GUCY2EP</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42496T: 3.5; 42497T: 3.5;
<i>GULP1</i>	chr2	2q32.1-q32.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>GUSB</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>GUSBP1</i>	chr5	5p14.3	4	1	1	2	Amplification	4	0	42486T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 4;
<i>GXYLT1</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>GYG1</i>	chr3	3q24	8	1	2	5	Amplification	8	0	42497T: 4.5; 42496T: 4; 42484T: 3.5; 42474T: 3.5; 56957T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>GYLTL1B</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>GYS2</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>H1F0</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>H1FNT</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>H1FOO</i>	chr3	3q22.1	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>H1EX</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>H2AFJ</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>H2AFV</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>H3F3B</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>H3F3C</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 12.5;
<i>HAAO</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>HADHA</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HADHB</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HAGH</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>HAGHL</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
<i>HAMP</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>HAPLN2</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>HARB1</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HAS2</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42496T: 3.5; 42475T: 3.5; 42484T: 3.5; 42495T: 3.5;
<i>HAT1</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 5;
<i>HAUS4</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>HAUS5</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>HAX1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>HBA1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>HBA2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>HBM</i>	chr16	11q13.2	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>HBP1</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42497T: 4; 42501T: 3.5;
<i>HBQ1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>HBZ</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>HCAR1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HCAR2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HCAR3</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HCK</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 4.5; 42496T: 5;
<i>HCLS1</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>HCN1</i>	chr5	5p12	4	1	1	2	Amplification	4	0	42475T: 3.5; 42486T: 3.5; 42496T: 3.5; 42493T: 3.5;
<i>HCN3</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>HCRTR1</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HCST</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>HDAC1</i>	chr1	1p35.2-p35.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HDAC7</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HDAC9</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HDGF</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>HEATR2</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>HEATR4</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>HEATR5A</i>	chr14	14q12	3	0	0	3	Amplification	3	0	56957T: 4; 42494T: 3.5; 42500T: 4.5;
<i>HEATR5B</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HEBP1</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>HEBP2</i>	chr6	6q24.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HECTD1</i>	chr14	14q12	3	0	0	3	Amplification	3	0	42494T: 3.5; 56957T: 4; 42500T: 4.5;
<i>HECTD4</i>	chr12	12q24.13	2	0	1	1	Amplification/Deletion	1	1	42482T: 0.5; 42500T: 3.5;
<i>HECW1</i>	chr7	7p14.1-p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HECW2</i>	chr2	2q32.3	2	0	1	1	Amplification	2	0	42482T: 4; 42493T: 3.5;
<i>HEG1</i>	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>HELB</i>	chr12	12q14.3 12q	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>HELZ2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>HEPACAM2</i>	chr7	7q21.2	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 4;
<i>HERC2P3</i>	chr15	15q11.1-q11	2	1	1	0	Amplification/Deletion	1	1	42476T: 0.5; 42484T: 7.5;
<i>HERPUD2</i>	chr7	7p14.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HES1</i>	chr3	21q22.3	9	1	3	5	Amplification	9	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5;
<i>HES6</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HEY1</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>HFE2</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HGD</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>HGF</i>	chr7	2p22.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>HGSNAT</i>	chr8	8p11.21-p11	1	0	1	0	Amplification	1	0	42483T: 4.5;
<i>HHLA1</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42495T: 3.5; 42484T: 3.5; 42496T: 3.5;
<i>HIBADH</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HIBCH</i>	chr2	2q32.2	3	0	1	2	Amplification	3	0	42493T: 3.5; 42494T: 3.5; 42482T: 4;
<i>HIF1A</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>HIF3A</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>HIGD1C</i>	chr12	12q13.12	2	0	0	2	Amplification	2	0	42494T: 3.5; 42500T: 3.5;
<i>HINT2</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>HIP1R</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HIPK2</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>HIPK4</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 4;
<i>HIRA</i>	chr22	22q11.21	1	0	0	1	Amplification	2	0	42497T: 21,17;
<i>HIST2H2AA3</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	56958T: 4; 42473T: 4;
<i>HIST2H2AA4</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	56958T: 4; 42473T: 4;
<i>HIST2H2AB</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42473T: 5; 56958T: 4;
<i>HIST2H2AC</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	56958T: 4; 42473T: 5;
<i>HIST2H2BE</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	56958T: 4; 42473T: 5;
<i>HIST2H2BF</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42473T: 4; 56958T: 4;
<i>HIST2H3A</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42473T: 4; 56958T: 4;
<i>HIST2H3C</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42473T: 4; 56958T: 4;
<i>HIST2H4A</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42473T: 4; 56958T: 4;
<i>HIST2H4B</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HIST4H4</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>HK2</i>	chr2	19p13.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HKR1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>HLF</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>HLTF</i>	chr3	3q24	8	1	2	5	Amplification	8	0	42474T: 3.5; 56957T: 4; 42484T: 3.5; 42497T: 4.5; 42496T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>HM13</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>HMGBl</i>	chr13	13q12.3	1	0	0	1	Amplification	1	0	42497T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>HMGCL</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HMGCS1</i>	chr5	5p12	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>HMGNI</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HMHA1</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HMOX2</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42494T: 3.5; 42495T: 8.5;
<i>HNIL</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>HNFI1A</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HNFI1B</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HNFA4</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HNFA4G</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>HNRNPA1</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>HNRNPA2B1</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HNRNPA3</i>	chr2	2q31.2	2	0	1	1	Amplification	2	0	42493T: 4.5; 42482T: 4;
<i>HNRNPCL1</i>	chr1	1p36.21	1	0	1	0	Amplification	1	0	42486T: 4.5;
<i>HNRNPL</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>HNRNPLL</i>	chr2	2p22.1	2	0	0	2	Amplification	2	0	42500T: 3.5; 42493T: 3.5;
<i>HNRNPR</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HNRNPUL1</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>HOMEZ</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42496T: 4; 42500T: 4;
<i>HOXK3</i>	chr8	8p11.21	1	0	1	0	Amplification	1	0	42483T: 4.5;
<i>HORMAD1</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 4.5;
<i>HORMAD2</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HOXA1</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA10</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA11</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA13</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA2</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA3</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA4</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA5</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA6</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA7</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXA9</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HOXC10</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>HOXC11</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HOXC12</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HOXC4</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>HOXC5</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>HOXC6</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42494T: 3.5; 42473T: 3.5;
<i>HOXC8</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>HOXC9</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>HOXD10</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HOXD11</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HOXD12</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HOXD13</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HOXD3</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HOXD4</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HOXD8</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HOXD9</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HP1BP3</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HPCAL1</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HPD</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HPN</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>HPS3</i>	chr3	3q24	8	1	2	5	Amplification	8	0	42474T: 3.5; 56957T: 4; 42484T: 3.5; 42496T: 4; 42497T: 4.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>HRASLS</i>	chr3	3q29	10	1	3	6	Amplification	10	0	42501T: 3.5; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42474T: 3.5; 42495T: 4; 42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>HRCT1</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>HRG</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42497T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5;
<i>HRH3</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>HRK</i>	chr12	12q24.22	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HRNR</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>HRSPI2</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>HS1BP3</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HS3ST2</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HS3ST4</i>	chr16	16p12.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HS3ST6</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>HSD17B7P2</i>	chr10	10p11.1	1	0	0	1	Amplification	1	0	56958T: 3.5;
<i>HSF1</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42495T: 4.5; 56957T: 3.5; 42483T: 3.5; 42496T: 4;
<i>HSF5</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>HSPA12B</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 6;
<i>HSPA1A</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HSPA1B</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HSPA1L</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HSPA2</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>HSPA9</i>	chr5	5q31.2	1	0	0	1	Amplification	1	0	42495T: 3.5;
<i>HSPB1</i>	chr7	7q11.23	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>HSPB6</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>HSPB7</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>HSPB8</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HSPBAP1</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>HSPD1</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>HSPE1</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>HSPG2</i>	chr1	1p36.12	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 4;
<i>HSPH1</i>	chr13	13q12.3	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>HTR1D</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HTR3C</i>	chr3	3q27.1	11	1	3	7	Amplification	11	0	42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42497T: 4; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42494T: 3.5; 42495T: 4; 56957T: 5;
<i>HTR3D</i>	chr3	3q27.1	11	1	3	7	Amplification	11	0	42497T: 4; 42474T: 3.5; 42494T: 3.5; 42495T: 4; 56957T: 5; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>HTR3E</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42497T: 4; 42473T: 3.5; 42494T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 5; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>HTR6</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HTR7P1</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>HTRA2</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HVCN1</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>HYAL4</i>	chr7	7q31.32	2	0	1	1	Amplification	2	0	42493T: 3.5; 42487T: 3.5;
<i>HYDIN2</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>HYKK</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>HYOU1</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>LAH1</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LAPP</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>ICA1</i>	chr7	7p21.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42497T: 7.5;
<i>ID1</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>ID2</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ID3</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IDH2</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IDH3A</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IDH3B</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IFFO2</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>IFI6</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IFLTD1</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>IFNA1</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNA13</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNA14</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNA16</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNA2</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>IFNA21</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNA5</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNA6</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNA7</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNA8</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNB1</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNE</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFNG</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 6.5; 42500T: 5;
<i>IFNL1</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>IFNL2</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>IFNL3</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>IFNLR1</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IFNW1</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>IFRD1</i>	chr7	7q31.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42501T: 3.5;
<i>IFT122</i>	chr3	3q21.3-q22.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>IFT140</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>IFT172</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>IFT27</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IFT43</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>IFT52</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IFT80</i>	chr3	3q25.33	8	1	2	5	Amplification	8	0	42484T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4; 42497T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>IFT81</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>IGF2BP2</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42497T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>IGF2BP3</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>IGFALS</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>IGFBP1</i>	chr7	7p12.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>IGFBP6</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>IGFL1</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>IGFL2</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>IGFL3</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>IGFL4</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>IGFLR1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>IGHMBP2</i>	chr11	11q13.3	7	1	1	5	Amplification	7	0	42492T: 4; 42498T: 9.5; 56957T: 5; 42497T: 4.5; 42476T: 29.5; 42483T: 14.5; 42501T: 3.5;
<i>IGLL5</i>	chr22	22q11.22	1	1	0	0	Amplification	1	0	42477T: 4;
<i>IGSF10</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42484T: 3.5; 42474T: 3.5; 56957T: 4; 42497T: 5.5; 42496T: 4; 42500T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>IGSF11</i>	chr3	3q13.32	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>IGSF21</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>IGSF23</i>	chr19	19q13.31	2	1	0	0	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>IGSF5</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IGSF6</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>IHH</i>	chr2	2q35	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IKZF1</i>	chr7	7p12.2	1	0	0	1	Amplification	1	0	42497T: 20.5;
<i>IKZF3</i>	chr17	17q12-q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>IKZF4</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>IL11</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>IL12A</i>	chr3	3q25.33	8	1	2	5	Amplification	8	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42497T: 3.5; 56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4;
<i>IL18BP</i>	chr11	11q13.4	7	3	0	4	Amplification	7	0	42475T: 5; 42501T: 6; 42476T: 4; 56957T: 3.5; 42492T: 4; 42498T: 5; 42478T: 4.5;
<i>IL18R1</i>	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>IL18RAP</i>	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>IL1R1</i>	chr2	2q11.2-q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>IL1R2</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>IL1RAP</i>	chr3	3q28	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5;
<i>IL1RL1</i>	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>IL1RL2</i>	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>IL20RB</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>IL22</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 6.5; 42500T: 5;
<i>IL22RA1</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IL25</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42496T: 4; 42500T: 4;
<i>IL26</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 6.5; 42500T: 5;
<i>IL2RB</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IL31</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>IL33</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>IL6</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>IL6R</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>IL7</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>IL7R</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>ILDR1</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ILF2</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>ILKAP</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IMMP2L</i>	chr7	7q31.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42501T: 3.5;
<i>IMMT</i>	chr2	2p11.2 2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>IMPA1</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>IMPA2</i>	chr18	18p11.21	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>IMPAD1</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>IMPDH1</i>	chr7	16p13.2	2	1	1	0	Amplification	2	0	42487T: 3.5; 42473T: 3.5;
<i>IMPG2</i>	chr3	3q12.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>ING3</i>	chr7	7q31.31	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>INHBA</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>INMT</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>INO80</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>INO80B</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>INPP1</i>	chr2	2q32.2	3	0	1	2	Amplification	3	0	42482T: 4; 42493T: 3.5; 42494T: 3.5;
<i>INPP4A</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>INPP5D</i>	chr2	2q37.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>INPP5E</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>INPPL1</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	42476T: 4; 42493T: 3.5; 42492T: 4; 42475T: 5; 42501T: 6; 56957T: 3.5; 42478T: 4.5; 42498T: 5;
<i>INSL4</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>INSL6</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>INSM1</i>	chr20	20p11.23	1	0	1	0	Amplification	1	0	42483T: 4;
<i>INSM2</i>	chr14	14q13.2	2	1	0	1	Amplification	2	0	42500T: 8.5; 42476T: 5;
<i>INSRR</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>INTS1</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>INTS3</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>INTS4L1</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>INTS4L2</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>INTS8</i>	chr8	8q22.1	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42473T: 4.5;
<i>IPO8</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 8;
<i>IQCB1</i>	chr3	3q13.33 3q2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>IQCC</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>IQCD</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>IQCE</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>IQCG</i>	chr3	3q29	9	1	3	5	Amplification	9	0	56957T: 6; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 3.5; 42482T: 3.5; 42493T: 4; 42487T: 3.5; 42492T: 3.5;
<i>IQCI</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42497T: 3.5; 42484T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4;
<i>IQCK</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>IQGAP3</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 7;
<i>IQSEC3</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>IQUB</i>	chr7	7q31.32	2	0	1	1	Amplification	2	0	42487T: 3.5; 42493T: 3.5;
<i>IRAK3</i>	chr12	12q14.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>IRAK4</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>IREB2</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>IRF2BP2</i>	chr1	1q42.3	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>IRF2BPL</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>IRF5</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>IRGQ</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>IRX1</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42486T: 3.5; 42496T: 3.5; 42473T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>IRX2</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42475T: 3.5; 42486T: 3.5; 42473T: 3.5; 42496T: 3.5; 42493T: 3.5;
<i>IRX4</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42475T: 3.5; 42473T: 3.5; 42496T: 4; 42486T: 3.5;
<i>ISCA2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>ISG20L2</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>ISL1</i>	chr5	5q11.1	2	1	0	1	Amplification	2	0	42475T: 3.5; 42498T: 16.5;
<i>ISLR</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ISLR2</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ISM2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>ISOC2</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>ISPD</i>	chr7	7p21.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ISY1</i>	chr3	3q21.3	3	0	1	2	Amplification	3	0	42493T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>ITCH</i>	chr20	20q11.22	3	1	0	2	Amplification	3	0	42473T: 3.5; 42496T: 5; 42493T: 3.5;
<i>ITFG3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>ITGA10</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ITGA4</i>	chr2	2q31.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>ITGA5</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42494T: 3.5; 42473T: 3.5;
<i>ITGA6</i>	chr2	2q31.1	2	1	0	1	Amplification	2	0	42493T: 5; 42473T: 3.5;
<i>ITGA7</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>ITGAV</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ITGB1BP1</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ITGB4</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>ITGB5</i>	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ITGB8</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ITPA</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>ITPKC</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>ITPR2</i>	chr12	12p11.23	1	0	0	1	Amplification	1	0	42500T: 6;
<i>ITPRIPL1</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>ITPRIPL2</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>ITSN2</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>JAK2</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>JAM3</i>	chr11	11q25	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>JAZF1</i>	chr7	7p15.2-p15.1	1	1	0	0	Amplification	1	0	42473T: 4;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>JDP2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>JHDM1D</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>JKAMP</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>JMJD8</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>JOSD1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>JPH1</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>JPH2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>JPH4</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>JRK</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>JTB</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>KALRN</i>	chr3	3q21.1-q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>KANK1</i>	chr9	9p24.3	2	0	1	1	Amplification/Deletion	1	1	42486T: 0.5; 42496T: 3.5;
<i>KANSL2</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KANSL3</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>KATNAL1</i>	chr13	13q12.3	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>KBTD12</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>KBTD2</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KBTD4</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KCMF1</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KCNAB1</i>	chr3	3q25.31	8	1	2	5	Amplification	8	0	56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 3.5; 42497T: 5.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>KCNB1</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>KCNB2</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>KCNE3</i>	chr11	11q13.4	5	2	0	3	Amplification	5	0	42475T: 7.5; 42476T: 4; 56957T: 3.5; 42498T: 8; 42492T: 4;
<i>KCNF1</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KCNG1</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>KCNG3</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>KCNH3</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KCNH5</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>KCNIP3</i>	chr2	2q11.1	2	1	0	1	Amplification	2	0	42493T: 4; 42473T: 3.5;
<i>KCNJ4</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KCNJ8</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>KCNK12</i>	chr2	2p16.3	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>KCNK13</i>	chr14	14q32.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KCNK15</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>KCNK3</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KCNK6</i>	chr19	19q13.2	4	1	1	2	Amplification	4	0	42474T: 4; 56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>KCNK9</i>	chr8	8q24.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>KCNMB2</i>	chr3	3q26.32	11	1	3	7	Amplification	11	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4; 42497T: 4; 42500T: 9.5;
<i>KCNMB3</i>	chr3	3q26.32	11	1	3	7	Amplification	11	0	42500T: 9.5; 42497T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>KCNMB4</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 5.5; 42500T: 5;
<i>KCNN3</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>KCNN4</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>KCNQ2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>KCNQ3</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42496T: 3.5; 42484T: 3.5; 42495T: 3.5;
<i>KCNS1</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>KCNS2</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>KCNS3</i>	chr2	2p24.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KCNT1</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>KCNU1</i>	chr8	8p11.23	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>KCNV1</i>	chr8	8q23.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>KCNV2</i>	chr9	9p24.2	2	0	1	1	Amplification/Deletion	1	1	42496T: 3.5; 42486T: 0.5;
<i>KCP</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>KCTD10</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4.5;
<i>KCTD15</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 4.5;
<i>KCTD17</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KCTD7</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>KDELR2</i>	chr7	7p22.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>KDELR3</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KDM1A</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KDM2A</i>	chr11	11q13.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KDM2B</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KDM3A</i>	chr2	2p11.2	2	0	0	2	Amplification	2	0	42493T: 3.5; 42500T: 3.5;
<i>KDM4C</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>KDM5A</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KDM5B</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KEL</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>KHDRBS1</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KHDRBS3</i>	chr8	8q24.23	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>KHK</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KIAA0020</i>	chr9	9p24.2	2	0	1	1	Amplification/Deletion	1	1	42496T: 3.5; 42486T: 0.5;
<i>KIAA0087</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KIAA0195</i>	chr17	17q25.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KIAA0196</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5; 42475T: 3.5;

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<i>KIAA0226</i>	chr3	3q29	9	1	3	5	Amplification	9	0	56957T: 6; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42493T: 5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>KIAA0247</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>KIAA0355</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 42484T: 3.5; 56957T: 4;
<i>KIAA0391</i>	chr14	14q13.2	2	1	0	1	Amplification	2	0	42500T: 4.5; 42476T: 5;
<i>KIAA0430</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>KIAA0586</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>KIAA0895</i>	chr7	7p14.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>KIAA0907</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>KIAA0947</i>	chr5	5p15.32	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>KIAA1147</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>KIAA1211L</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>KIAA1239</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>KIAA1244</i>	chr6	6q23.3-q24.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>KIAA1257</i>	chr3	3q21.3	3	0	1	2	Amplification	3	0	42487T: 3.5; 42493T: 3.5; 42496T: 3.5;
<i>KIAA1324L</i>	chr7	7q21.12	2	0	2	0	Amplification	3	0	42483T: 6.3.5; 42487T: 3.5;
<i>KIAA1377</i>	chr11	11q22.1	1	0	0	1	Amplification	1	0	56958T: 5.5;
<i>KIAA1407</i>	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>KIAA1429</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>KIAA1432</i>	chr9	9p24.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42498T: 14;
<i>KIAA1467</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>KIAA1549</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>KIAA1551</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 12.5;
<i>KIAA1586</i>	chr6	6p12.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>KIAA1614</i>	chr1	1q25.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>KIAA1715</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>KIAA1737</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>KIAA1755</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KIAA1841</i>	chr2	2p15	3	0	1	2	Amplification	3	0	56957T: 3.5; 42484T: 4.5; 42500T: 3.5;
<i>KIAA1875</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>KIAA1919</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>KIAA1984</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>KIAA2018</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>KIAA2026</i>	chr9	9p24.1	2	0	0	2	Amplification	2	0	42498T: 14; 42496T: 3.5;
<i>KIDINS220</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KIF13B</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>KIF17</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KIF1A</i>	chr2	2q37.3	2	2	0	0	Amplification/Deletion	1	1	42473T: 4; 42474T: 0.5;
<i>KIF21A</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KIF2B</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>KIF3B</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 4.5; 42496T: 5;
<i>KIF3C</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KIF7</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KIFC2</i>	chr8	8q24.3	5	0	1	4	Amplification	5	0	42494T: 3.5; 42495T: 4.5; 56957T: 3.5; 42483T: 3.5; 42496T: 4;
<i>KIRREL</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 5;
<i>KIRREL2</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>KISS1R</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>KL</i>	chr13	13q13.1	1	0	0	1	Amplification	1	0	42497T: 6;
<i>KLC3</i>	chr19	19q13.32	3	1	1	1	Amplification	3	0	56957T: 4; 42484T: 4; 42473T: 3.5;
<i>KLF10</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>KLF11</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KLF14</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>KLF15</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>KLF3</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KLHDC1</i>	chr14	14q21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KLHDC10</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>KLHDC2</i>	chr14	14q21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KLHDC7A</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KLHL22</i>	chr22	22q11.21	2	1	0	1	Amplification	2	0	42497T: 3.5; 42477T: 4;
<i>KLHL24</i>	chr3	3q27.1	10	1	3	6	Amplification	10	0	42497T: 4; 56957T: 5; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>KLHL28</i>	chr14	14q21.2	1	0	0	1	Amplification	1	0	42500T: 5.5;
<i>KLHL29</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KLHL30</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KLHL35</i>	chr11	11q13.4	2	0	0	2	Amplification	2	0	42492T: 4; 42498T: 6.5;
<i>KLHL38</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42495T: 3.5; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>KLHL42</i>	chr12	12p11.22	2	0	0	2	Amplification	2	0	42494T: 4; 42500T: 6;
<i>KLHL6</i>	chr3	3q27.1	10	1	3	6	Amplification	10	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42497T: 4; 56957T: 5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4;
<i>KLHL7</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KLHL9</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>KLRG2</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>KMT2D</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KMT2E</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42497T: 4; 42501T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>KNG1</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42497T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5;
<i>KNOP1</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>KNSTRN</i>	chr15	15q15.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KNTC1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KPNA1</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>KPNA4</i>	chr3	3q25.33	8	1	2	5	Amplification	8	0	42484T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4; 42497T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>KPNA6</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>KRAS</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>KRCC1</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KRIT1</i>	chr7	7q21.2	3	0	2	1	Amplification	3	0	42487T: 3.5; 42494T: 3.5; 42483T: 4;
<i>KRT121P</i>	chr12	12q13.13	1	0	0	1	Amplification	1	0	42493T: 4;
<i>KRT18</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KRT3</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KRT4</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KRT7</i>	chr12	12q13.13	1	0	0	1	Amplification	1	0	42493T: 4;
<i>KRT76</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KRT78</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KRT79</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KRT8</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>KRT81</i>	chr12	12q13.13	1	0	0	1	Amplification	1	0	42493T: 4;
<i>KRT83</i>	chr12	12q13.13	1	0	0	1	Amplification	1	0	42493T: 4;
<i>KRT86</i>	chr12	12q13.13	1	0	0	1	Amplification	1	0	42493T: 4;
<i>KRTCAP2</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>KRTCAP3</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KRTDAP</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>KSR2</i>	chr12	12q24.22-q2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>KTNI</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>KY</i>	chr3	3q22.2	4	0	1	3	Amplification	4	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42496T: 3.5;
<i>L2HGDH</i>	chr14	14q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>L3HYPDH</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>L3MBTL1</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>L3MBTL4</i>	chr18	18p11.31	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LACE1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>LACRT</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>LACTB2</i>	chr8	8q13.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>LACTBL1</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LAG3</i>	chr12	12p13.31	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>LALBA</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LAMA1</i>	chr18	18p11.31	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LAMA3</i>	chr18	6q21	1	1	0	0	Amplification	2	0	42481T: 6.4;
<i>LAMA4</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>LAMA5</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>LAMB1</i>	chr7	7q31.1	4	0	1	3	Amplification	4	0	42493T: 5; 42487T: 3.5; 42501T: 3.5; 42497T: 4;
<i>LAMB4</i>	chr7	7q31.1	4	0	1	3	Amplification	4	0	42497T: 4; 42501T: 3.5; 42487T: 3.5; 42493T: 5;
<i>LAMC3</i>	chr9	9q34.12	1	0	1	0	Amplification	1	0	42484T: 4;
<i>LAMP1</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>LAMP3</i>	chr3	3q27.1	9	1	3	5	Amplification	9	0	42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>LAMTOR1</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	56957T: 3.5; 42498T: 5; 42478T: 4.5; 42501T: 6; 42475T: 5; 42493T: 3.5; 42492T: 4; 42476T: 4;
<i>LAMTOR2</i>	chr1	1q22	2	1	0	1	Amplification	2	0	42493T: 4; 42473T: 4.5;
<i>LANCL2</i>	chr7	7p11.2	3	0	1	2	Amplification	3	0	56957T: 5; 42497T: 6.5; 42483T: 4;
<i>LAPTM4A</i>	chr2	2p24.1	2	1	0	1	Amplification	2	0	42473T: 4; 42500T: 3.5;
<i>LAPTM4B</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>LAPTM5</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LARP4</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LASP1</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LBH</i>	chr2	6p21.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LBP</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LBX2</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LCASL</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LCK</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>LCLAT1</i>	chr2	2p23.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LCMT1</i>	chr16	16p12.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>LCN1</i>	chr9	9q34.3	1	0	1	0	Amplification	1	0	42484T: 4.5;
<i>LCN10</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>LCN12</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>LCN15</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>LCN6</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>LCN8</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>LCN9</i>	chr9	9q34.3	2	0	1	1	Amplification	2	0	56957T: 3.5; 42484T: 4.5;
<i>LCNL1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>LDHB</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>LDLRAD2</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>LEFTY1</i>	chr1	1q42.12	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LEFTY2</i>	chr1	1q42.12	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LEKRI</i>	chr3	3q25.31	8	1	2	5	Amplification	8	0	42497T: 5.5; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>LELP1</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>LENEP</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 6.5; 42496T: 3.5;
<i>LEP</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>LEPRE1</i>	chr1	1p34.2	2	0	0	2	Amplification	2	0	42496T: 5.5; 42493T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>LEPREL1</i>	chr3	3q28	10	1	3	6	Amplification	10	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42497T: 5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5;
<i>LEPROTL1</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>LETM2</i>	chr8	8p11.23	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>LETMD1</i>	chr12	12q13.12	2	0	0	2	Amplification	2	0	42500T: 3.5; 42494T: 3.5;
<i>LEUTX</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
<i>LFNG</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>LGALS1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LGALS13</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
<i>LGALS14</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
<i>LGALS16</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
<i>LGALS17A</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
<i>LGALS2</i>	chr22	14q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LGALS3</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>LGALS4</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>LGALS7</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>LGALS7B</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>LGALSL</i>	chr2	2p14	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 3.5;
<i>LG14</i>	chr19	19q13.12 19q13.32	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>LGR5</i>	chr12	12q21.1	1	0	0	1	Amplification	1	0	42501T: 5.5;
<i>LHCGR</i>	chr2	2p16.3	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>LHFPL3</i>	chr7	7q22.2-q22.3	4	0	1	3	Amplification	4	0	42501T: 3.5; 42497T: 4; 42493T: 3.5; 42487T: 3.5;
<i>LHX3</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>LHX4</i>	chr1	1q25.2	1	0	0	1	Amplification	1	0	42493T: 4;
<i>LHX5</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LIF</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LIFR</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42484T: 3.5; 42493T: 3.5; 42496T: 3.5; 42486T: 3.5; 42483T: 3.5; 42475T: 3.5;
<i>LIMA1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LIME1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>LIN37</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>LIN52</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>LINC00173</i>	chr12	12q24.22	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LINC00174</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>LINC00176</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>LINC00293</i>	chr8	8q11.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42494T: 3.5; 42484T: 3.5;
<i>LINC00452</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>LINC00461</i>	chr5	5q14.3	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>LINC00470</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	56957T: 8; 42493T: 3.5; 42500T: 4.5;
<i>LINC00477</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>LINC00479</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LINC00483</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>LINC00529</i>	chr8	8p23-p22	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>LINC00552</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>LINC00583</i>	chr9	9p23	1	0	0	1	Amplification	1	0	42498T: 14.5;
<i>LINC00599</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>LINC00643</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>LINC00657</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LINC00667</i>	chr18	18p11.31	1	0	0	1	Amplification	1	0	56957T: 8;
<i>LINC00668</i>	chr18	18p11.31	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LINC00935</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LINC00941</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 8;
<i>LINC00961</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>LINC00964</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42496T: 3.5; 42475T: 3.5; 42484T: 3.5; 42495T: 3.5;
<i>LINC00966</i>	chr8	8q12.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>LINC00967</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42496T: 3.5; 42497T: 4; 42495T: 3.5;
<i>LINC00969</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42498T: 3.5; 42484T: 4; 56957T: 6; 42495T: 4; 42474T: 3.5; 42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>LIPH</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42498T: 3.5; 42484T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42497T: 4; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5;
<i>LIPT1</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LIPT2</i>	chr11	11q13.4	5	2	0	3	Amplification	5	0	42492T: 4; 42498T: 8; 56957T: 3.5; 42476T: 4; 42475T: 7.5;
<i>LITAF</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 9.5;
<i>LIX1L</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>LMAN1L</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LMAN2L</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42493T: 4.5; 42473T: 3.5;
<i>LMBR1L</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LMBRD2</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 3.5;
<i>LMF1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>LMLN</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42493T: 4; 42487T: 3.5; 42492T: 3.5; 56957T: 6; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 3.5;
<i>LMNA</i>	chr1	1q22	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>LMOD2</i>	chr7	7q31.32	2	0	1	1	Amplification	2	0	42487T: 3.5; 42493T: 3.5;
<i>LNP1</i>	chr3	3q12.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>LOH12CR1</i>	chr12	12p13.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>LOH12CR2</i>	chr12	12p13.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>LONRF2</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>LOR</i>	chr1	8p21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>LOXL1</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LOXL3</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LPCAT1</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42475T: 3.5; 42486T: 3.5; 42496T: 4; 42473T: 3.5; 42493T: 3.5;
<i>LPIN1</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LPIN2</i>	chr18	18p11.31	2	0	0	2	Amplification	2	0	42500T: 4.5; 56957T: 8;
<i>LPIN3</i>	chr20	20q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LPO</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>LPP</i>	chr3	3q27.3-q28	10	1	3	6	Amplification	10	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42497T: 5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5;
<i>LPPR3</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LRCH3</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42495T: 4; 42474T: 3.5; 56957T: 6; 42484T: 5.5; 42498T: 3.5; 42493T: 4; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>LRCOL1</i>	chr12	12q24.33	1	0	0	1	Amplification	1	0	56957T: 4;
<i>LRFN1</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>LRFN3</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>LRFN4</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5.5; 42473T: 3.5;
<i>LRFN5</i>	chr14	14q21.1	1	0	0	1	Amplification	1	0	42500T: 5.5;
<i>LRGUK</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>LRMP</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>LRP10</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>LRP12</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>LRP1B</i>	chr2	2q22.1-q22.2	1	1	0	0	Deletion	0	1	42476T: 0;
<i>LRP3</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 4.5;
<i>LRP4</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LRP5</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42476T: 29.5; 56957T: 5;
<i>LRP6</i>	chr12	12p13.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>LRPPRC</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>LRR1</i>	chr14	14q21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LRRC10</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 5.5; 42500T: 5;
<i>LRRC14</i>	chr8	8q24.3	5	0	1	4	Amplification	5	0	42496T: 4; 42483T: 3.5; 56957T: 3.5; 42494T: 3.5; 42495T: 4.5;
<i>LRRC14B</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42475T: 3.5; 42486T: 3.5; 42496T: 4; 42473T: 3.5; 42493T: 3.5;
<i>LRRC15</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42474T: 3.5; 42495T: 4;
<i>LRRC17</i>	chr7	7q22.1	3	0	1	2	Amplification	3	0	42487T: 3.5; 42493T: 3.5; 42501T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>LRRC23</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>LRRC30</i>	chr18	18p11.23	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LRRC31</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42500T: 8; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4;
<i>LRRC32</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42497T: 3.5; 42496T: 3.5;
<i>LRRC34</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4; 42500T: 8;
<i>LRRC37B</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LRRC3C</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>LRRC4</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>LRRC43</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LRRC45</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LRRC58</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>LRRC59</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LRRC6</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42495T: 3.5; 42484T: 3.5; 42496T: 3.5;
<i>LRRC69</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>LRRC71</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>LRRC72</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>LRRC9</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42494T: 4; 42483T: 3.5;
<i>LRRC1</i>	chr8	8q21.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>LRRD1</i>	chr7	7q21.2	3	0	2	1	Amplification	3	0	42487T: 3.5; 42494T: 3.5; 42483T: 4;
<i>LRR1Q4</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42500T: 8; 56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>LRRK2</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LRRN3</i>	chr7	7q31.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42501T: 3.5;
<i>LRRTM1</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LRRTM4</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LRTOMT</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	42493T: 3.5; 42492T: 4; 42476T: 4; 56957T: 3.5; 42478T: 4.5; 42498T: 5; 42475T: 5; 42501T: 6;
<i>LRWD1</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;
<i>LSAMP</i>	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>LSG1</i>	chr3	3q29	9	1	3	5	Amplification	9	0	56957T: 4.5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>LSM1</i>	chr8	8p11.23	2	0	1	1	Amplification	2	0	42482T: 3.5; 42493T: 3.5;
<i>LSM14A</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 56957T: 4; 42484T: 3.5;
<i>LSM14B</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>LSM2</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>LSM5</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>LSMEM1</i>	chr7	7q31.1	2	0	1	1	Amplification	2	0	42501T: 3.5; 42487T: 3.5;
<i>LSR</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>LST1</i>	chr6	12p12.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LTA</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LTB</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LTBP1</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>LTBP2</i>	chr14	11q13.1	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>LTBP4</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>LUC7L</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>LUC7L2</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>LUC7L3</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>LUZP1</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LUZP6</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>LXN</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42497T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 3.5;
<i>LY6D</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>LY6E</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>LY6G5C</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LY6G6C</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LY6G6D</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LY6G6E</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LY6G6F</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LY6H</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>LY6K</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>LY96</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>LYG1</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LYG2</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>LYN</i>	chr8	8q12.1	3	0	1	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42483T: 5;
<i>LYNX1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>LYPD2</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>LYPD3</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>LYPD4</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>LYPD5</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>LYPLA1</i>	chr8	8q11.23	3	0	0	3	Amplification	3	0	42495T: 3.5; 42494T: 4; 42496T: 3.5;
<i>LYPLA2</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>LYRM1</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>LYRM5</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>LYSMD1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>LYZ</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 5.5;
<i>LZTR1</i>	chr22	22q11.21 22	1	1	0	0	Amplification	1	0	42477T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>LZTS3</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MIAP</i>	chr2	2p13.1	1	0	0	0	Amplification	1	0	42500T: 3.5;
<i>MAATS1</i>	chr3	3q13.33	1	0	0	0	Amplification	1	0	42496T: 3.5;
<i>MACC1</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MAD1L1</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MADD</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MAF1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>MAFA</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>MAFB</i>	chr20	20q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MAFF</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MAFK</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MAG</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>MAGEF1</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42497T: 4; 42473T: 4; 42498T: 3.5; 42484T: 4; 56957T: 5; 42495T: 4; 42474T: 3.5; 42494T: 3.5; 42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>MAGI2</i>	chr7	7q21.11	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>MAK16</i>	chr8	8p12	2	0	1	1	Amplification	2	0	42482T: 3.5; 42497T: 4.5;
<i>MAL</i>	chr2	22q13.1-q13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MAL2</i>	chr8	8q24.12	3	1	0	2	Amplification	3	0	42495T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>MALSU1</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MAMDC4</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>MAN1B1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>MAN1C1</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>MANBAL</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MANSC1</i>	chr12	12p13.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>MANSC4</i>	chr12	12p11.22	2	0	0	2	Amplification	2	0	42500T: 6; 42494T: 4;
<i>MAP1LC3A</i>	chr20	20q11.22	3	1	0	2	Amplification	3	0	42493T: 3.5; 42496T: 5; 42473T: 3.5;
<i>MAP1LC3B2</i>	chr12	12q24.22	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MAP3K10</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
<i>MAP3K13</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	56957T: 4.5; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42497T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>MAP3K6</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MAP3K9</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>MAP4K1</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>MAP4K3</i>	chr2	2p22.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MAP4K4</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MAP4K5</i>	chr14	14q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42494T: 4;
<i>MAP6</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42498T: 6.5; 42492T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>MAP6D1</i>	chr3	3q27.1	10	1	3	6	Amplification	10	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42497T: 4; 42474T: 3.5; 42495T: 4; 56957T: 5; 42484T: 4; 42498T: 3.5;
<i>MAPK1</i>	chr22	22q11.22	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MAPK11P1L</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>MAPK8IP1</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MAPK8IP3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>MAPKAPK5</i>	chr12	12q24.12-q24.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MAPRE1</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>MAPRE3</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MARCH11</i>	chr5	5p15.1	5	1	2	2	Amplification	5	0	42475T: 3.5; 42486T: 3.5; 42496T: 3.5; 42493T: 4; 42484T: 3.5;
<i>MARCH6</i>	chr5	5p15.2	4	1	1	2	Amplification	4	0	42486T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 4;
<i>MARCKSL1</i>	chr1	1p35.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MARK4</i>	chr19	19q13.32	3	1	1	1	Amplification	3	0	42484T: 4; 56957T: 4; 42473T: 3.5;
<i>MARS2</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>MASPI</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42497T: 4; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42474T: 3.5; 42495T: 4; 42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>MAT2A</i>	chr2	2p11.2	2	0	1	1	Amplification	2	0	42482T: 3.5; 42500T: 3.5;
<i>MATN1</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MATN2</i>	chr8	8q22.1-q22.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>MATN3</i>	chr2	2p24.1	2	1	0	1	Amplification	2	0	42473T: 4; 42500T: 3.5;
<i>MATN4</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MAVS</i>	chr20	20p13	2	1	1	0	Amplification	2	0	42473T: 4.5; 42487T: 4;
<i>MAX</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>MB</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MB21D2</i>	chr3	3q29	10	1	3	6	Amplification	10	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42501T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5;
<i>MBD4</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>MBIP</i>	chr14	14q13.3	2	1	0	1	Amplification	2	0	42500T: 8.5; 42476T: 8;
<i>MBNL1</i>	chr3	3q25.1-q25.2	9	1	2	6	Amplification	9	0	42484T: 3.5; 56957T: 4; 42474T: 3.5; 42496T: 4; 42497T: 5.5; 42500T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>MBOAT2</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MBOAT4</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>MCCC1</i>	chr3	3q27.1	10	1	3	6	Amplification	10	0	42495T: 4; 42474T: 3.5; 56957T: 5; 42484T: 4; 42498T: 3.5; 42500T: 24; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>MCCD1</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>MCEE</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MCF2L</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>MCF2L2</i>	chr3	3q27.1	9	1	3	5	Amplification	9	0	42495T: 4; 42474T: 3.5; 56957T: 5; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>MCFD2</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>MCL1</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 5;
<i>MCM2</i>	chr3	7q22.1	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>MCM4</i>	chr8	8q11.21	5	0	2	3	Amplification	5	0	42496T: 3.5; 42482T: 5; 42494T: 3.5; 42495T: 3.5; 42484T: 3.5;
<i>MCM5</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MCMD2</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42497T: 4.5;
<i>MCRS1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MDFIC</i>	chr7	7q31.1-q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>MDGA1</i>	chr6	6p21.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>MDH1</i>	chr2	2p15	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 3.5; 42500T: 3.5;
<i>MDK</i>	chr11	2q24-q32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MDM1</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 6.5;
<i>MDM2</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 6.5; 42500T: 5;
<i>MECOM</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42500T: 8; 42484T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4;
<i>MECR</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MED1</i>	chr17	3q21.3	2	1	0	1	Amplification	2	0	42473T: 6; 42497T: 3.5;
<i>MED10</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42493T: 4; 42496T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>MED12L</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42484T: 3.5; 42474T: 3.5; 56957T: 4; 42496T: 4; 42497T: 5.5; 42500T: 3.5; 42492T: 3.5; 42487T: 3.5;
<i>MED13L</i>	chr12	12q24.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MED15</i>	chr22	22q11.21	2	1	0	1	Amplification	3	0	42477T: 4; 42497T: 3.5,13.5;
<i>MED16</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MED18</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MED19</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>MED21</i>	chr12	12p11.23	1	0	0	1	Amplification	1	0	42500T: 6;
<i>MED24</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>MED29</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>MED30</i>	chr8	8q24.11	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>MED6</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>MED8</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MEDAG</i>	chr13	13q12.3	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>MEF2C</i>	chr5	5q14.3	1	1	0	0	Deletion	0	1	42476T: 0.5;

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<i>MEF2D</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MEFV</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>MEGF8</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>MEIOB</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>MEIS1</i>	chr2	2p14	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MEMO1</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MEOX2</i>	chr7	7p21.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MESPI</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MESP2</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MEST</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>MET</i>	chr7	18p11.21	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>METAP1D</i>	chr2	2q31.1	2	1	0	1	Amplification	2	0	42493T: 5; 42473T: 3.5;
<i>METRN</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>METTL20</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 12.5;
<i>METTL21D</i>	chr14	14q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>METTL22</i>	chr16	16p13.2	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 5.5;
<i>METTL24</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>METTL2B</i>	chr7	7q32.1	2	1	1	0	Amplification	2	0	42487T: 3.5; 42473T: 3.5;
<i>METTL3</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>METTL4</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	42493T: 3.5; 56957T: 8; 42500T: 4.5;
<i>METTL7A</i>	chr12	12q13.12	2	0	0	2	Amplification	2	0	42500T: 3.5; 42494T: 3.5;
<i>METTL7B</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>METTL9</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MEX3A</i>	chr1	1q22	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>MFHAS1</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>MF12</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 6; 42482T: 3.5; 42492T: 3.5; 42493T: 5; 42487T: 3.5;
<i>MFN1</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4; 42498T: 3.5; 42500T: 14; 42497T: 4;
<i>MFNG</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MFSD1</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	42497T: 3.5; 42484T: 3.5; 56957T: 4; 42495T: 4; 42474T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>MFSD2B</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MFSD3</i>	chr8	8q24.3	5	0	1	4	Amplification	5	0	42483T: 3.5; 42496T: 4; 42494T: 3.5; 42495T: 4.5; 56957T: 3.5;
<i>MFSD6</i>	chr2	2q32.2	3	0	1	2	Amplification	3	0	42493T: 3.5; 42494T: 3.5; 42482T: 4;
<i>MFSD9</i>	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MGAM</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>MGAT2</i>	chr14	11q13.5	1	1	0	0	Amplification	1	0	42473T: 3.5;

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<i>MGAT3</i>	chr22	7q22.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MGAT4A</i>	chr2	2q11.2	1	0	0	0	Amplification	1	0	42493T: 3.5;
<i>MGLL</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>MGP</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>MGRN1</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42495T: 12; 42494T: 3.5; 42473T: 5.5;
<i>MGST1</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>MIA</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 4;
<i>MICAL1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>MICALL1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MICALL2</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MICB</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MIEN1</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42473T: 6; 42497T: 3.5;
<i>MIF4GD</i>	chr17	17q25.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MINA</i>	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>MINOS1</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MIOS</i>	chr7	7p21.3	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 3.5;
<i>MIPOL1</i>	chr14	14q13.3-q21	2	1	0	1	Amplification	2	0	42500T: 6.5; 42476T: 11;
<i>MIR296</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>MIR4458</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>MIR940</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>MIS18BP1</i>	chr14	14q21.2	1	0	0	1	Amplification	1	0	42500T: 5.5;
<i>MISP</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MITD1</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MKKS</i>	chr20	20p12.2	1	0	1	0	Amplification	1	0	42486T: 4;
<i>MKL1</i>	chr22	22q13.1-q13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MKL2</i>	chr16	16p13.12	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>MKLN1</i>	chr7	7q32.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>MKRN1</i>	chr7	7q34	2	1	1	0	Amplification	2	0	42487T: 3.5; 42473T: 3.5;
<i>MKSI</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>MLANA</i>	chr9	9p24.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42498T: 14;
<i>MLEC</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MLF1</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42497T: 3.5; 42484T: 3.5; 56957T: 4; 42495T: 4; 42474T: 3.5;
<i>MLF2</i>	chr12	12p13.31	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MLH3</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>MLLT3</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>MLLT6</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MLST8</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>MLTK</i>	chr2	2q31.1	2	1	0	1	Amplification	2	0	42473T: 6; 42493T: 5;
<i>MLXIP</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MMAB</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>MMD</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>MMD2</i>	chr7	10p	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 8.5;
<i>MME</i>	chr3	11q22.2	7	1	2	4	Amplification	7	0	42497T: 5.5; 42492T: 3.5; 42484T: 3.5; 42493T: 3.5; 56957T: 4; 42487T: 3.5; 42474T: 3.5;
<i>MMP12</i>	chr11	11q22.2	1	0	0	1	Amplification	1	0	56958T: 6;
<i>MMP13</i>	chr11	11q22.2	1	0	0	1	Amplification	1	0	56958T: 6;
<i>MMP14</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>MMP16</i>	chr8	8q21.3	3	1	0	2	Amplification	3	0	42496T: 3.5; 42475T: 3.5; 42495T: 3.5;
<i>MMP19</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>MMP24</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>MMP7</i>	chr11	11q22.2	1	0	0	1	Amplification	1	0	56958T: 5.5;
<i>MMP9</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MNAT1</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>MOB1A</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MOB2</i>	chr11	11p15.5	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MOB4</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>MOCS3</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MOGAT2</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42498T: 6.5; 42492T: 4;
<i>MOGAT3</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42501T: 3.5; 42493T: 3.5;
<i>MOGS</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MORN2</i>	chr2	2p22.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MORN3</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MOS</i>	chr8	18q12.2	3	0	1	2	Amplification	3	0	42496T: 3.5; 42483T: 5; 42495T: 3.5;
<i>MPG</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>MPHOSPH10</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MPHOSPH9</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MPI</i>	chr15	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MPL</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MPLKIP</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MPO</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>MPP5</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>MPP6</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MPPE1</i>	chr18	18p11.21	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MPST</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MPV17</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MPV17L</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>MRAS</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>MRGBP</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>MGRPRD</i>	chr11	11q13.3	7	1	1	5	Amplification	7	0	42498T: 9.5; 42492T: 4; 56957T: 5; 42497T: 4.5; 42476T: 29.5; 42483T: 14.5; 42501T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>MRGPRF</i>	chr11	11q13.3	7	1	1	5	Amplification	7	0	42501T: 3.5; 42483T: 14.5; 42476T: 29.5; 42497T: 4.5; 56957T: 5; 42492T: 4; 42498T: 9.5;
<i>MROH1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>MROH2B</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42493T: 3.5; 42484T: 3.5; 42475T: 3.5; 42483T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>MROH5</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>MROH6</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>MROH8</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MRPL11</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5.5;
<i>MRPL13</i>	chr8	8q24.12	3	1	0	2	Amplification	3	0	42496T: 3.5; 42475T: 3.5; 42495T: 3.5;
<i>MRPL15</i>	chr8	8q11.23	3	0	0	3	Amplification	3	0	42496T: 3.5; 42494T: 4; 42495T: 3.5;
<i>MRPL19</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MRPL21</i>	chr11	11q13.3	6	1	0	5	Amplification	6	0	42492T: 4; 42498T: 9.5; 56957T: 5; 42476T: 29.5; 42497T: 4.5; 42501T: 3.5;
<i>MRPL24</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>MRPL27</i>	chr17	9q34.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MRPL28</i>	chr16	2q11.2	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>MRPL3</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42492T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>MRPL30</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MRPL32</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MRPL33</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MRPL35</i>	chr2	2p11.2	2	0	0	2	Amplification	2	0	42493T: 3.5; 42500T: 3.5;
<i>MRPL36</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42475T: 3.5; 42473T: 3.5; 42496T: 4; 42486T: 3.5; 42493T: 3.5;
<i>MRPL38</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>MRPL40</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>MRPL41</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>MRPL45</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MRPL47</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5; 42498T: 3.5; 42484T: 4; 56957T: 4; 42474T: 3.5; 42495T: 4; 42497T: 4; 42500T: 14;
<i>MRPL48</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42476T: 4; 42475T: 8.5; 42478T: 6; 42492T: 4; 42498T: 8; 56957T: 3.5;
<i>MRPL52</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>MRPL53</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MRPL9</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>MRPS12</i>	chr19	16p13.3	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>MRPS17</i>	chr7	7p11.2	3	0	1	2	Amplification	3	0	56957T: 5; 42497T: 6.5; 42483T: 4;
<i>MRPS2</i>	chr9	9q34.3	1	0	1	0	Amplification	1	0	42484T: 4.5;
<i>MRPS21</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MRPS22</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42496T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
MRPS23	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
MRPS24	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
MRPS26	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
MRPS28	chr8	12p11.22	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
MRPS30	chr5	5p12	4	1	1	2	Amplification	4	0	42486T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 3.5;
MRPS33	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
MRPS34	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
MRPS35	chr12	12p11.22	2	0	0	2	Amplification	2	0	42500T: 6; 42494T: 4;
MRPS5	chr2	2q11.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
MRPS7	chr17	17q25.1	1	1	0	0	Amplification	1	0	42473T: 4;
MRPS9	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
MSC	chr8	8p21.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
MSGN1	chr2	2p24.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
MSH2	chr2	2p21-p16.3	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
MSH5	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
MSH6	chr2	2p16.3	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
MSI1	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
MSI2	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
MSL1	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 4;
MSL2	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
MSLN	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
MSLNL	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
MSRA	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
MSRB1	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
MSS51	chr10	10q22.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
MST1	chr3	20q13.12	1	1	0	0	Amplification	1	0	42473T: 4;
MST1L	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4.5;
MSTN	chr2	2q32.2	3	0	1	2	Amplification	3	0	42494T: 3.5; 42493T: 3.5; 42482T: 4;
MSTO1	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 5.5;
MTA3	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
MTAP	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
MTBP	chr8	8q24.12	3	1	0	2	Amplification	3	0	42496T: 3.5; 42475T: 3.5; 42495T: 3.5;
MTCH1	chr6	6p21.2	1	0	1	0	Amplification	1	0	42486T: 3.5;
MTCH2	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
MTDH	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
MTERF	chr7	7q21.2	3	0	2	1	Amplification	3	0	42483T: 4; 42487T: 3.5; 42494T: 3.5;
MTERFD1	chr8	8q22.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
MTFP1	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
MTFR1	chr8	8q13.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
MTFR1L	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
MTG2	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>MTHFD1</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>MTHFD2</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MTIF2</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42500T: 3.5; 42484T: 4.5; 56957T: 3.5;
<i>MTL5</i>	chr11	11q13.3	2	1	0	1	Amplification	2	0	56957T: 5; 42476T: 29.5;
<i>MTMR11</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>MTMR12</i>	chr5	5p13.3	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 3.5;
<i>MTMR3</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MTMR4</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>MTMR9</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>MTPN</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>MTRR</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 4;
<i>MTSS1</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5; 42484T: 3.5;
<i>MTX1</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>MTX2</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>MUC1</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>MUC12</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42501T: 3.5; 42493T: 3.5;
<i>MUC13</i>	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>MUC17</i>	chr7	7q22.1	4	1	0	3	Amplification	4	0	42493T: 3.5; 56957T: 4; 42501T: 3.5; 42473T: 3.5;
<i>MUC19</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MUC20</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 6; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>MUC3A</i>	chr7	7q22	2	0	0	2	Amplification	2	0	42501T: 3.5; 42493T: 3.5;
<i>MUC4</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 6; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5;
<i>MUCL1</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>MUL1</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MVK</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>MX1</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MX2</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MXD1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MYADML</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MYBL1</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42497T: 4.5; 42496T: 3.5; 42495T: 3.5;
<i>MYBL2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MYBPC3</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MYBPH</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MYC</i>	chr8	8q24.21	5	1	1	3	Amplification	5	0	42496T: 3.5; 42475T: 3.5; 42484T: 3.5; 42495T: 3.5; 42493T: 10;
<i>MYCBPAP</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>MYCN</i>	chr2	2p24.3	1	0	0	1	Amplification	1	0	42500T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>MYD88</i>	chr3	3p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>MYEOV</i>	chr11	11q13.3	9	2	1	6	Amplification	9	0	42497T: 4.5; 42483T: 14.5; 56958T: 5; 42501T: 6; 42475T: 7.5; 42498T: 9.5; 56957T: 5; 42476T: 29.5; 42492T: 4;
<i>MYH11</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>MYH6</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42496T: 4; 42500T: 4;
<i>MYH7</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>MYH7B</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>MYH9</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MYL10</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42501T: 3.5; 42493T: 3.5;
<i>MYL12A</i>	chr18	18p11.31	3	1	0	2	Amplification	3	0	56957T: 8; 42481T: 9.5; 42500T: 3.5;
<i>MYL12B</i>	chr18	18p11.31	3	1	0	2	Amplification	3	0	42500T: 3.5; 56957T: 8; 42481T: 9.5;
<i>MYL2</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>MYL6</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>MYL6B</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>MYL7</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 4.5;
<i>MYL9</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MYLK</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>MYLK2</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>MYNN</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42500T: 8; 42484T: 4; 56957T: 4; 42474T: 3.5; 42495T: 4;
<i>MYO10</i>	chr5	5p15.1	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 4;
<i>MYO1B</i>	chr2	2q32.3	3	0	1	2	Amplification	3	0	42482T: 4; 42493T: 3.5; 42494T: 3.5;
<i>MYO1G</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>MYO1H</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4.5;
<i>MYOG</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>MYOM1</i>	chr18	18p11.31	2	0	0	2	Amplification	2	0	56957T: 8; 42500T: 3.5;
<i>MYOM2</i>	chr8	8p23.3	1	0	0	1	Amplification	1	0	56957T: 4;
<i>MYOM3</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>MYOZ1</i>	chr10	10q22.2	2	1	0	1	Amplification	2	0	42473T: 4.5; 42496T: 3.5;
<i>MYPOP</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>MYRFL</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 5.5;
<i>MYT1</i>	chr20	16p13.3	1	1	0	0	Amplification	1	0	42473T: 6;
<i>MYT1L</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>N4BP2L1</i>	chr13	13q13.1	1	0	0	1	Amplification	1	0	42497T: 6;
<i>N4BP2L2</i>	chr13	13q13.1	1	0	0	1	Amplification	1	0	42497T: 6;
<i>NAA20</i>	chr20	20p11.23	1	0	1	0	Amplification	1	0	42483T: 4;
<i>NAA25</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NAA30</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>NAA38</i>	chr7	17p13.1	1	0	1	0	Amplification	1	0	42487T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>NAA50</i>	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>NAA60</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>NAALADL2</i>	chr3	3q26.31	9	1	3	5	Amplification	9	0	42484T: 4; 42474T: 3.5; 42495T: 4; 56957T: 4; 42500T: 12.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>NAB1</i>	chr2	2q32.2	3	0	1	2	Amplification	3	0	42494T: 3.5; 42493T: 3.5; 42482T: 4;
<i>NABP1</i>	chr2	2q32.3	3	0	1	2	Amplification	3	0	42482T: 4; 42494T: 3.5; 42493T: 3.5;
<i>NABP2</i>	chr12	12q13.3	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>NACAD</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NACAP1</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>NACC2</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>NADK2</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42496T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>NADSYN1</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	42476T: 4; 42492T: 4; 42497T: 6.5; 42475T: 5; 42501T: 6; 42498T: 5; 42478T: 4.5; 56957T: 5;
<i>NAGK</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NAGPA</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 12;
<i>NAMPT</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42497T: 4; 42501T: 3.5;
<i>NANOS2</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>NAPEPLD</i>	chr7	7q22.1	3	0	1	2	Amplification	3	0	42501T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>NAPRT1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>NARFL</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>NAT10</i>	chr11	11p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NAT14</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>NAT16</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42501T: 3.5; 42493T: 3.5;
<i>NAT8</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NBAS</i>	chr2	2p24.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NBL1</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NBN</i>	chr8	1p34.1	3	1	0	2	Amplification	3	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5;
<i>NBPF22P</i>	chr5	5q14.3	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>NCALD</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>NCAPD3</i>	chr11	11q25	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>NCAPH</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>NCBP2</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42493T: 5; 42487T: 3.5; 42492T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 6; 42484T: 4; 42498T: 3.5;
<i>NCCRPI</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>NCEH1</i>	chr3	3q26.31	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42500T: 9; 56957T: 4; 42495T: 4; 42474T: 3.5; 42484T: 4;
<i>NCF4</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NCK1</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42496T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>NCKAP1</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>NCKAP1L</i>	chr12	12q13.13-q1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>NCKAP5L</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NCMAP</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NCOA1</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NCOA2</i>	chr8	8q13.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>NCOA3</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>NCOA5</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>NCOA6</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>NCOR2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NCR3</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NDC80</i>	chr18	18p11.32	2	0	0	2	Amplification	2	0	56957T: 8; 42500T: 4.5;
<i>NDE1</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>NDOR1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>NDRG1</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42496T: 3.5; 42484T: 3.5; 42495T: 3.5;
<i>NDRG3</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NDST2</i>	chr10	10q22.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>NDUFA4</i>	chr7	1p13.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NDUFA5</i>	chr7	7q31.32	2	0	1	1	Amplification	2	0	42487T: 3.5; 42493T: 3.5;
<i>NDUFAB1</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NDUFAF6</i>	chr8	8q22.1	3	1	0	2	Amplification	3	0	42473T: 4.5; 42496T: 3.5; 42495T: 3.5;
<i>NDUFAF7</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NDUFB10</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>NDUFB2</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>NDUFB4</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>NDUFB5</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4; 42497T: 4; 42500T: 14;
<i>NDUFB9</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>NDUFS3</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NDUFS6</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42486T: 3.5; 42473T: 3.5; 42496T: 4; 42475T: 3.5;
<i>NDUFS8</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5;
<i>NDUFV1</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>NECAB1</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>NECAB3</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>NECAP2</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NEIL2</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>NEK11</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>NEK9</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>NELFB</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>NELFCD</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NELFE</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NELL2</i>	chr12	12q12	1	0	0	0	Amplification	1	0	42500T: 3.5;
<i>NEMF</i>	chr14	14q21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NES</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>NEU1</i>	chr6	9q34.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NEU2</i>	chr2	2q37.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NEU3</i>	chr11	11q13.4	2	0	0	2	Amplification	2	0	42492T: 4; 42498T: 8;
<i>NEURL2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>NEURL3</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>NEUROD1</i>	chr2	2q31.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>NEUROD2</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42473T: 6; 42497T: 3.5;
<i>NEUROD4</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>NEUROD6</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NF1</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NF2</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NFATC2</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>NFE2</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42494T: 3.5; 42473T: 3.5;
<i>NFE2L2</i>	chr2	2q31.2	2	0	1	1	Amplification	2	0	42482T: 4; 42493T: 4.5;
<i>NFE2L3</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NFIB</i>	chr9	9p23-p22.3	1	0	0	1	Amplification	1	0	42498T: 14.5;
<i>NFKBIA</i>	chr14	14q13.2	2	1	0	1	Amplification	2	0	42500T: 8.5; 42476T: 5;
<i>NFKBIB</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>NFKBID</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>NFKBIL1</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NFKBIZ</i>	chr3	3q12.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>NFS1</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>NFU1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NGB</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>NGDN</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>NHLRC4</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
<i>NICN1</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NID2</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>NIM1</i>	chr5	5p12	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>NIN</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>NINJ2</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NIPAL2</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>NIPAL3</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NIPBL</i>	chr5	5p13.2	5	1	2	2	Amplification	5	0	42486T: 3.5; 42483T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>NIPSNAP1</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>NIT2</i>	chr3	3q12.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>NKAIN1</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NKAIN3</i>	chr8	8q12.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>NKAIN4</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>NKD2</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42486T: 3.5; 42473T: 3.5; 42496T: 4; 42475T: 3.5;
<i>NKPD1</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>NLGN1</i>	chr3	3q26.31	9	1	3	5	Amplification	9	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5; 42484T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5; 42500T: 9;
<i>NLRC3</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>NLRC4</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NLRP11</i>	chr19	19q13.42-q1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>NLRP13</i>	chr19	19q13.43	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>NLRP4</i>	chr19	19q13.43	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>NLRP9</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>NMB</i>	chr15	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NMD3</i>	chr3	3q26.1	8	1	2	5	Amplification	8	0	42497T: 3.5; 42484T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>NME1</i>	chr17	9p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NME2</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NME3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>NME4</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>NME8</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NME9</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>NMNAT3</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>NMRAL1</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42495T: 8.5; 42494T: 3.5;
<i>NMS</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>NNAT</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NNT</i>	chr5	5p12	4	1	1	2	Amplification	4	0	42493T: 3.5; 42496T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>NOBOX</i>	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>NOD1</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NOG</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>NOL10</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NOMO1</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>NOMO2</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>NOMO3</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>NOS1</i>	chr12	10q26.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NOTCH1</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>NOTCH2NL</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NOTCH4</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>NOTO</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NOV</i>	chr8	Xq28	3	1	0	2	Amplification	3	0	42495T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>NOVA2</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>NOXA1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>NOXRED1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>NPAS2</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>NPAS3</i>	chr14	14q13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>NPAS4</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5.5;
<i>NPBWR1</i>	chr8	8q11.23	4	0	1	3	Amplification	4	0	42496T: 3.5; 42482T: 3.5; 42494T: 3.5; 42495T: 3.5;
<i>NPBWR2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>NPC1</i>	chr18	4p15.1-q12	1	1	0	0	Amplification	1	0	42481T: 4;
<i>NPC1L1</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 7.5;
<i>NPC2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>NPDC1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>NPEPL1</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NPHP1</i>	chr2	2q13	1	0	1	0	Deletion	0	1	42486T: 0.5;
<i>NPHP3</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>NPHS1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>NPR1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NPR2</i>	chr9	3p21.31	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>NPR3</i>	chr5	16p13.3	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>NPRL3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>NPSR1</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NPTXR</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NPVF</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NPW</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>NPY</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NR1D1</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>NR1H3</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NR1I2</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>NR2E1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>NRARP</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>NRBP1</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NRBP2</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>NRCAM</i>	chr7	7q31.1	4	0	1	3	Amplification	4	0	42493T: 5; 42487T: 3.5; 42497T: 4; 42501T: 3.5;
<i>NRDE2</i>	chr14	14q32.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NRF1</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>NRG1</i>	chr8	8p12	2	0	1	1	Amplification	2	0	42482T: 3.5; 42497T: 4.5;
<i>NRROS</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42493T: 5; 42487T: 3.5; 42498T: 3.5; 42484T: 4; 56957T: 6; 42474T: 3.5; 42495T: 4;

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Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients**

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>NRSN2</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NRXN1</i>	chr2	2p16.3	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>NRXN3</i>	chr14	14q24.3-q31	1	0	0	0	Amplification	1	0	42494T: 4;
<i>NSFL1C</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NSMAF</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>NSMCE2</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42496T: 3.5; 42475T: 3.5; 42484T: 3.5; 42495T: 3.5;
<i>NSMF</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>NSUN2</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42475T: 3.5; 42486T: 3.5; 42496T: 3.5; 42493T: 4;
<i>NSUN3</i>	chr3	3q11.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>NT5C1B</i>	chr2	2p24.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NT5C3A</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NTAN1</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>NTHL1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>NTN3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>NTRK1</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>NTSR1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>NTSR2</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>NUBP1</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 5;
<i>NUBP2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>NUBPL</i>	chr14	14q12	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>NUDCD1</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>NUDCD3</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 4.5;
<i>NUDT1</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>NUDT16</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42487T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>NUDT16L1</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42495T: 12; 42494T: 3.5; 42473T: 5.5;
<i>NUDT17</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NUDT19</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	42484T: 3.5; 56957T: 4; 42473T: 3.5; 42500T: 4.5;
<i>NUDT4P1</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NUDT8</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>NUMA1</i>	chr11	11q13.4	8	3	0	5	Amplification	8	0	42498T: 5; 42478T: 4.5; 56957T: 3.5; 42501T: 6; 42475T: 5; 42492T: 4; 42493T: 3.5; 42476T: 4;
<i>NUMB</i>	chr14	14q24.2-q24	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>NUMBL</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>NUP107</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 6.5;
<i>NUP155</i>	chr5	5p13.2	5	1	2	2	Amplification	5	0	42493T: 3.5; 42475T: 3.5; 42483T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>NUP160</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>NUP205</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>NUP210L</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>NUP210P1</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>NUP214</i>	chr9	9q34.13	1	0	1	0	Amplification	1	0	42484T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>NUP35</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>NUPL2</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>NUPR1L</i>	chr7	7p11.2	2	0	1	1	Amplification	2	0	56957T: 5; 42483T: 4;
<i>NXPE3</i>	chr3	3q12.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>NXPH1</i>	chr7	7p21.3	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 3.5;
<i>OAS1</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OAS2</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OAS3</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OASL</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OAZ3</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>OBP2A</i>	chr9	9q34.3	1	0	1	0	Amplification	1	0	42484T: 4.5;
<i>OC90</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42495T: 3.5; 42484T: 3.5; 42496T: 3.5;
<i>OCIAD1</i>	chr4	4p11	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>OCIAD2</i>	chr4	4p11	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>OCM</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 10.5;
<i>OCSTAMP</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ODF1</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>ODF2L</i>	chr1	1p22.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>OGDH</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 4.5;
<i>OGFOD2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OGFR</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>OLA1</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>OMP</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42497T: 3.5; 42496T: 3.5;
<i>OPA1</i>	chr3	Xq13.1	10	1	3	6	Amplification	10	0	42501T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>OPA3</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>OPLAH</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>OPN1SW</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>OPRD1</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>OPRK1</i>	chr8	8q11.23	3	0	0	3	Amplification	3	0	42495T: 3.5; 42494T: 3.5; 42496T: 3.5;
<i>OPRL1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>OR10AD1</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OR10G2</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>OR10G3</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>OR13J1</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42501T: 3.5; 42473T: 3.5;
<i>OR1F1</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>OR1F2P</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>OR2A1</i>	chr7	7q35	2	0	2	0	Amplification	2	0	42484T: 4.5; 42487T: 3.5;
<i>OR2A12</i>	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>OR2A14</i>	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
OR2A2	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
OR2A20P	chr7	7q35	2	0	2	0	Amplification	2	0	42487T: 3.5; 42484T: 4.5;
OR2A25	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
OR2A42	chr7	7q35	2	0	2	0	Amplification	2	0	42484T: 4.5; 42487T: 3.5;
OR2A5	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
OR2A7	chr7	7q35	2	0	2	0	Amplification	2	0	42487T: 3.5; 42484T: 4.5;
OR2A9P	chr7	7q35	2	0	2	0	Amplification	2	0	42484T: 4.5; 42487T: 3.5;
OR2AP1	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR2AT4	chr11	11q13.4	2	0	0	2	Amplification	2	0	42498T: 8; 42492T: 4;
OR2C1	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
OR2F1	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
OR2F2	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
OR2S2	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
OR2V1	chr5	5q35.3	1	0	0	1	Amplification	1	0	42495T: 3.5;
OR2V2	chr5	5q35.3	1	0	0	1	Amplification	1	0	42495T: 3.5;
OR2Y1	chr5	5q35.3	1	0	0	1	Amplification	1	0	42495T: 3.5;
OR4A15	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR4A16	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR4A47	chr11	11p11.2	1	0	0	1	Amplification	1	0	56957T: 8;
OR4A5	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 9.5;
OR4B1	chr11	11p11.2	1	0	0	1	Amplification	1	0	56957T: 16.5;
OR4C11	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR4C12	chr11	11p11.12	1	0	0	1	Amplification	1	0	56957T: 8;
OR4C13	chr11	11p11.12	1	0	0	1	Amplification	1	0	56957T: 8;
OR4C15	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR4C3	chr11	11p11.2	1	0	0	1	Amplification	1	0	56957T: 16.5;
OR4C46	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 9.5;
OR4C5	chr11	11p11.2	1	0	0	1	Amplification	1	0	56957T: 16.5;
OR4C6	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR4D1	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
OR4D2	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
OR4M2	chr15	15q11.2	1	0	1	0	Amplification	1	0	42484T: 7.5;
OR4N4	chr15	15q11.2	1	0	1	0	Amplification	1	0	42484T: 7.5;
OR4P4	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR4S1	chr11	11p11.2	1	0	0	1	Amplification	1	0	56957T: 16.5;
OR4S2	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR4X1	chr11	11p11.2	1	0	0	1	Amplification	1	0	56957T: 16.5;
OR4X2	chr11	11p11.2	1	0	0	1	Amplification	1	0	56957T: 16.5;
OR5AC2	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5AK2	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5AP2	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
OR5AR1	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5AS1	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5D13	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR5D14	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR5D16	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR5D18	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR5F1	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5F2P	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5G5P	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5H1	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5H14	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5H15	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5H2	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5H6	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5J2	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5K1	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5K2	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5K3	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5K4	chr3	3q11.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
OR5L1	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR5L2	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 8.5;
OR5M1	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5T1	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5T2	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR5T3	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
OR6B1	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
OR6C1	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C2	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C3	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C4	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C6	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C65	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C68	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C70	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C74	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C75	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6C76	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
OR6J1	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
OR6V1	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
OR6W1P	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
OR8H2	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;

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<i>OR8H3</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>OR8I2</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>OR8J3</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>OR8K5</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>OR8S1</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OR9A2</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>OR9A4</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>OR9G1</i>	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>OR9K2</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>ORAI1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ORAI2</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;
<i>ORAOV1</i>	chr11	11q13.3	12	3	2	7	Amplification	12	0	42476T: 29.5; 42492T: 4; 42497T: 4.5; 42486T: 13.5; 42483T: 14.5; 42500T: 13; 56958T: 5; 42475T: 7.5; 42501T: 6; 42498T: 9.5; 42478T: 4.5; 56957T: 5;
<i>ORC5</i>	chr7	7q22.1-q22.2	4	0	1	3	Amplification	4	0	42501T: 3.5; 42497T: 4; 42493T: 3.5; 42487T: 3.5;
<i>ORMDL1</i>	chr2	2q32.2	2	0	1	1	Amplification	2	0	42482T: 4; 42493T: 3.5;
<i>ORMDL2</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>ORMDL3</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>OSBPL11</i>	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>OSBPL1A</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 3.5;
<i>OSBPL2</i>	chr20	20q13.33	2	1	1	0	Amplification	2	0	42486T: 3.5; 42473T: 6;
<i>OSBPL3</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>OSBPL6</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>OSER1</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>OSGEPL1</i>	chr2	2q32.2	2	0	1	1	Amplification	2	0	42482T: 4; 42493T: 3.5;
<i>OSGIN2</i>	chr8	8q21.3	3	1	0	2	Amplification	3	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5;
<i>OSM</i>	chr22	7p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>OSMR</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42484T: 3.5; 42493T: 3.5; 42496T: 3.5; 42483T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>OSR1</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OSR2</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>OST4</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OSTCP1</i>	chr6	6q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>OSTM1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>OSTN</i>	chr3	3q28	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4;
<i>OTOA</i>	chr16	16p12.2 16p	1	1	0	0	Amplification	1	0	42473T: 4;
<i>OTOF</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>OTOL1</i>	chr3	3q26.1	8	1	2	5	Amplification	8	0	42497T: 3.5; 42484T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>OTUD3</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>OTUD6B</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>OTUD7B</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>OTX1</i>	chr2	2p15	3	0	1	2	Amplification	3	0	42500T: 3.5; 42484T: 3.5; 56957T: 3.5;
<i>OTX2</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>OVCH1</i>	chr12	12p11.22	1	0	0	1	Amplification	1	0	42500T: 6;
<i>OVOL3</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>OXAIL</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>OXCT1</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42484T: 3.5; 42493T: 3.5; 42496T: 3.5; 42483T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>OXER1</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>OXR1</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>OXSRI</i>	chr3	3p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>OXT</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>P2RX2</i>	chr12	12q24.33	1	0	0	1	Amplification	1	0	56957T: 4;
<i>P2RX4</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>P2RX6</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42477T: 4;
<i>P2RX7</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>P2RY1</i>	chr3	3q25.2	9	1	2	6	Amplification	9	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42500T: 3.5; 42497T: 5.5; 42496T: 4; 42474T: 3.5; 56957T: 4; 42484T: 3.5;
<i>P2RY12</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42484T: 3.5; 42474T: 3.5; 56957T: 4; 42497T: 5.5; 42496T: 4; 42500T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>P2RY13</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42497T: 5.5; 42496T: 4; 42500T: 3.5; 42484T: 3.5; 42474T: 3.5; 56957T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>P2RY2</i>	chr11	11q13.4	5	2	0	3	Amplification	5	0	56957T: 3.5; 42492T: 4; 42498T: 6.5; 42475T: 8.5; 42476T: 4;
<i>P2RY6</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	56957T: 3.5; 42498T: 6.5; 42492T: 4; 42478T: 4.5; 42475T: 8.5; 42476T: 4;
<i>P4HA3</i>	chr11	11q13.4	5	2	0	3	Amplification	5	0	42476T: 4; 42475T: 7.5; 42492T: 4; 42498T: 8; 56957T: 3.5;
<i>PA2G4</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 9.5;
<i>PAAF1</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42476T: 4; 42475T: 7.5; 42498T: 8; 42492T: 4; 42478T: 6; 56957T: 3.5;
<i>PABPC1</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>PABPC1L</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PABPN1</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42500T: 4; 42496T: 4;
<i>PACSN3</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PAEP</i>	chr9	9q34.3	2	0	1	1	Amplification	2	0	42484T: 4.5; 56957T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PAF1</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>PAFAH1B3</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PAG1</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>PAIP1</i>	chr5	5p12	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 3.5;
<i>PAIP2B</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PAK2</i>	chr3	1p22.2	9	1	3	5	Amplification	9	0	42498T: 3.5; 42484T: 4; 56957T: 6; 42474T: 3.5; 42495T: 4; 42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 5;
<i>PAK4</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>PAK6</i>	chr15	15q15.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PALB2</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PALM</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PALM2</i>	chr9	9q31.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>PAM16</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42495T: 8.5; 42494T: 3.5; 42473T: 5.5;
<i>PANK2</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PAPD7</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>PAPL</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>PAPLN</i>	chr14	14q24.2	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>PAPOLB</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 8.5;
<i>PAPOLG</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42500T: 3.5; 56957T: 3.5; 42484T: 4.5;
<i>PAQR6</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PAQR9</i>	chr3	3q23	5	0	1	4	Amplification	5	0	42496T: 4; 42492T: 3.5; 56957T: 4; 42493T: 3.5; 42487T: 3.5;
<i>PARD6B</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PARL</i>	chr3	3q27.1	10	1	3	6	Amplification	10	0	42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42497T: 4; 42498T: 3.5; 42484T: 4; 56957T: 5; 42495T: 4; 42474T: 3.5;
<i>PARN</i>	chr16	16p13.12	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>PARP10</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>PARP11</i>	chr12	12p13.32	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>PARP12</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PARP14</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>PARP15</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>PARP8</i>	chr5	5q11.1	2	1	0	1	Amplification	2	0	42475T: 3.5; 42498T: 10.5;
<i>PARP9</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>PAX1</i>	chr20	20p11.22	1	0	1	0	Amplification	1	0	42483T: 4;
<i>PAX4</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PAX7</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PAX9</i>	chr14	14q13.3	2	1	0	1	Amplification	2	0	42500T: 8.5; 42476T: 8;
<i>PBOV1</i>	chr6	6q23.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PBRM1</i>	chr3	3p21.1	1	0	0	1	Deletion	0	1	42497T: 0.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PBX2</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PBX2P1</i>	chr3	3q24	5	0	1	4	Amplification	5	0	42492T: 3.5; 56957T: 4; 42487T: 3.5; 42493T: 3.5; 42496T: 4;
<i>PBXIP1</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 6.5;
<i>PC</i>	chr11	2q14.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5.5;
<i>PCBD2</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PCBP1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PCCB</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42496T: 3.5;
<i>PCED1A</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PCED1B</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PCGF1</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PCGF2</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PCID2</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>PCIF1</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PCK1</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 7;
<i>PCLO</i>	chr7	7q21.11	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PCMTD1</i>	chr8	8q11.23	5	0	2	3	Amplification	5	0	42482T: 3.5; 42496T: 3.5; 42484T: 5; 42495T: 3.5; 42494T: 3.5;
<i>PCMTD2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>PCNA</i>	chr20	20p12.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PCNP</i>	chr3	3q12.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>PCNX</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PCNXL4</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42494T: 4; 42483T: 3.5;
<i>PCOLCE2</i>	chr3	3q23	5	0	1	4	Amplification	5	0	42487T: 3.5; 56957T: 4; 42493T: 3.5; 42492T: 3.5; 42496T: 4;
<i>PCP4</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PCTP</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>PCYOX1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PCYT1A</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 5; 42492T: 3.5; 56957T: 6; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4;
<i>PDCD10</i>	chr3	3q26.1	9	1	3	5	Amplification	9	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42500T: 8; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4;
<i>PDCD1LG2</i>	chr9	9p24.1	2	0	0	2	Amplification	2	0	42498T: 14; 42496T: 3.5;
<i>PDCD2L</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 42484T: 3.5; 56957T: 4;
<i>PDCD5</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	42473T: 3.5; 42500T: 4.5; 42484T: 3.5; 56957T: 4;
<i>PDCD6</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42475T: 3.5; 42473T: 3.5; 42496T: 4; 42486T: 3.5; 42493T: 3.5;
<i>PDCL3</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PDE11A</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 4.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PDE1A</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 4;
<i>PDE1B</i>	chr12	12q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>PDE1C</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PDE2A</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	56957T: 3.5; 42492T: 4; 42498T: 5; 42478T: 4.5; 42475T: 5; 42476T: 4;
<i>PDE3A</i>	chr12	12p12.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>PDE4D</i>	chr5	5q11.2-q12.1	1	1	0	0	Deletion	0	1	42473T: 0.5;
<i>PDE4DIP</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PDE6H</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>PDE7A</i>	chr8	8q13.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>PDE8A</i>	chr15	15q25.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PDE9A</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PDGFA</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PDGFB</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PDHX</i>	chr11	11p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PDIA2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>PDIA3P</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PDIA4</i>	chr7	7q36.1	2	0	1	1	Amplification	2	0	42500T: 4; 42487T: 3.5;
<i>PDIA5</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>PDIA6</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PDILT</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PDK1</i>	chr2	16p13.3	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 5;
<i>PDK4</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PDP1</i>	chr8	9p24.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>PDRG1</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>PDSS5B</i>	chr13	13q13.1	1	0	0	1	Amplification	1	0	42497T: 6;
<i>PDSS1</i>	chr10	10p12.1	1	0	0	1	Amplification	1	0	56958T: 5;
<i>PDSS2</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>PDXDC1</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>PDXP</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PDYN</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PDZD2</i>	chr5	5p13.3	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>PDZD9</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PDZK1</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PDZRN4</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PEAR1</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>PEBP1</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PEF1</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PEG10</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PELI1</i>	chr2	2p14	2	0	0	2	Amplification	2	0	56957T: 3.5; 42500T: 3.5;
<i>PELI2</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PELI3</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5.5;
<i>PELO</i>	chr5	5q11.2	1	0	0	1	Amplification	1	0	42498T: 16.5;
<i>PENK</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>PEPD</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 4.5;
<i>PER2</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PERP</i>	chr6	6q23.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PEX1</i>	chr7	19q13.12	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>PEX11A</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PEX11B</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PEX13</i>	chr2	2p15	3	0	1	2	Amplification	3	0	42484T: 4.5; 56957T: 3.5; 42500T: 3.5;
<i>PEX16</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PEX2</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>PEX26</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 24.5;
<i>PEX5</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>PEX5L</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4; 42497T: 4; 42500T: 14;
<i>PFDN4</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PFKM</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PFN2</i>	chr3	3q25.1	9	2	2	5	Amplification	9	0	42474T: 3.5; 56957T: 4; 42484T: 3.5; 42496T: 4; 42497T: 4.5; 42473T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>PFN4</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PGAM5</i>	chr12	12q24.33	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PGAP1</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>PGAP3</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42497T: 3.5; 42473T: 6;
<i>PGF</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>PGLYRP1</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>PGLYRP3</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>PGLYRP4</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>PGM2</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PGM2L1</i>	chr11	11q13.4	5	2	0	3	Amplification	5	0	56957T: 3.5; 42498T: 8; 42492T: 4; 42475T: 7.5; 42476T: 4;
<i>PGP</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>PHACTR3</i>	chr20	20q13.32-q1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PHACTR4</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PHB2</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>PHC3</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42500T: 8; 42484T: 4; 42474T: 3.5; 42495T: 4; 56957T: 4;
<i>PHF14</i>	chr7	7p21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PHF15</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PHF20</i>	chr20	20q11.22-q1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PHF20L1</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42496T: 3.5; 42495T: 3.5; 42484T: 3.5;
<i>PHF21A</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PHGR1</i>	chr15	15q15.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PHKG1</i>	chr7	7p11.2	2	0	1	1	Amplification	2	0	56957T: 5; 42483T: 4;
<i>PHLDB2</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>PHLDB3</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PHOX2A</i>	chr11	11q13.4	7	3	0	4	Amplification	7	0	42475T: 5; 42476T: 4; 56957T: 3.5; 42493T: 3.5; 42478T: 4.5; 42498T: 5; 42492T: 4;
<i>PHPT1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>PHTF2</i>	chr7	7q11.23-q21	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PII5</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>PII6</i>	chr6	6p21.2	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>PI3</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PI4KA</i>	chr22	22q11.21	2	1	0	1	Amplification	3	0	42497T: 13.5,4; 42477T: 4;
<i>PI4KAP1</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42477T: 4;
<i>PI4KAP2</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PI4KB</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PIAS3</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PICK1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PIGF</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>PIGH</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PIGO</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>PIGQ</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
<i>PIGT</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PIGU</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>PIGX</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42493T: 5; 42487T: 3.5; 42492T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 6; 42484T: 4; 42498T: 3.5;
<i>PIGZ</i>	chr3	3q29	9	1	3	5	Amplification	9	0	56957T: 6; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42493T: 5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>PIK3C2G</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>PIK3CA</i>	chr3	3q26.32	11	1	3	7	Amplification	11	0	42500T: 9.5; 42497T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>PIK3CB</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>PIK3CG</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42501T: 3.5; 42497T: 4; 42487T: 3.5; 42493T: 3.5;
<i>PIK3R4</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42487T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>PINK1</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PINLYP</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PINX1</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>PIP</i>	chr7	1q41	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PIP4K2B</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PIP5K1A</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PITHD1</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PITPNM1</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>PITPNM2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PITX1</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PKD1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>PKDIP5</i>	chr16	16p12.3	1	0	1	0	Deletion	0	1	42484T: 0;
<i>PKDCC</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>PKHD1L1</i>	chr8	8q23.1-q23.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>PKIA</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>PKIG</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PKLR</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>PKP2</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PKP4</i>	chr2	2q24.1	2	1	0	1	Amplification	2	0	42473T: 4; 42493T: 3.5;
<i>PLA1A</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>PLA2G10</i>	chr16	16p13.12	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>PLA2G1B</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PLA2G2A</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PLA2G2C</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PLA2G2D</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PLA2G2E</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PLA2G2F</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PLA2G5</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PLA2G6</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PLAG1</i>	chr8	8q12.1	3	0	1	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42483T: 5;
<i>PLAGL2</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 4.5; 42496T: 5;
<i>PLAUR</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PLB1</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PLBD1</i>	chr12	12p13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>PLBD2</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PLCB2</i>	chr15	15q15.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PLCD1</i>	chr3	3p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PLCG1</i>	chr20	20q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PLCH1</i>	chr3	3q25.31	8	1	2	5	Amplification	8	0	42496T: 4.5; 42497T: 5.5; 56957T: 4; 42474T: 3.5; 42484T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>PLCL1</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PLCXD3</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42484T: 3.5; 42493T: 3.5; 42486T: 3.5; 42483T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>PLCZ1</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>PLD1</i>	chr3	19p13.2	9	1	3	5	Amplification	9	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4; 42500T: 9;
<i>PLD3</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 4;
<i>PLEC</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>PLEK</i>	chr2	2p14	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PLEK2</i>	chr14	14q23.3-q24	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PLEKHA3</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PLEKHA5</i>	chr12	12p12.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42500T: 4.5;
<i>PLEKHA8</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PLEKHA8P1</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PLEKHB1</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42475T: 8.5; 42476T: 4; 56957T: 3.5; 42478T: 4.5; 42492T: 4; 42498T: 8;
<i>PLEKHD1</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PLEKHF1</i>	chr19	19q12	5	1	1	3	Amplification	5	0	42473T: 25; 42500T: 4.5; 42484T: 6; 42494T: 4; 56957T: 4;
<i>PLEKHF2</i>	chr8	8q22.1	3	1	0	2	Amplification	3	0	42495T: 3.5; 42473T: 4.5; 42496T: 3.5;
<i>PLEKHG2</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>PLEKHG3</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PLEKHG4B</i>	chr5	5p15.33	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 4; 42475T: 3.5;
<i>PLEKHH1</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PLEKHH2</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>PLEKHO1</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PLGRKT</i>	chr9	9p24.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42498T: 14;
<i>PLIN1</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PLK1</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PLK1S1</i>	chr20	20p11.23	1	0	1	0	Amplification	1	0	42483T: 4;
<i>PLOD2</i>	chr3	3q24	7	1	1	5	Amplification	7	0	42474T: 3.5; 42493T: 3.5; 56957T: 4; 42487T: 3.5; 42492T: 3.5; 42497T: 4.5; 42496T: 4;
<i>PLOD3</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42501T: 3.5; 42493T: 3.5;
<i>PLS1</i>	chr3	3q23	5	0	1	4	Amplification	5	0	42487T: 3.5; 56957T: 4; 42493T: 3.5; 42492T: 3.5; 42496T: 4;
<i>PLSCR1</i>	chr3	3q24	7	1	1	5	Amplification	7	0	42497T: 4.5; 42496T: 4; 42487T: 3.5; 56957T: 4; 42493T: 3.5; 42474T: 3.5; 42492T: 3.5;
<i>PLSCR2</i>	chr3	3q24	7	1	1	5	Amplification	7	0	42492T: 3.5; 42474T: 3.5; 42487T: 3.5; 56957T: 4; 42493T: 3.5; 42496T: 4; 42497T: 4.5;
<i>PLSCR4</i>	chr3	3q24	7	1	1	5	Amplification	7	0	42496T: 4; 42497T: 4.5; 42474T: 3.5; 56957T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PLSCR5</i>	chr3	3q24	7	1	1	5	Amplification	7	0	42496T: 4; 42497T: 4.5; 42492T: 3.5; 56957T: 4;
<i>PLTP</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42493T: 3.5; 42487T: 3.5; 42474T: 3.5;
<i>PLXDC1</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PLXNA1</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>PLXNA4</i>	chr7	7q32.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PLXND1</i>	chr3	3q22.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>PM20D1</i>	chr1	1q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PMEL</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>PMEP1</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 7;
<i>PMF1</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PML</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PMM2</i>	chr16	16p13.2	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 5.5;
<i>PMPCA</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>PMPCB</i>	chr7	7q22.1	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42501T: 3.5; 42497T: 4;
<i>PMS1</i>	chr2	2q32.2	2	0	1	1	Amplification	2	0	42482T: 4; 42493T: 3.5;
<i>PMS2</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 8; 42473T: 4.5;
<i>PMS2CL</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 5;
<i>PMS2P4</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>PMVK</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 6.5;
<i>PNMA1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>PNMAL1</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>PNMAL2</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>PNMT</i>	chr17	17p11.2	2	1	0	1	Amplification	2	0	42497T: 3.5; 42473T: 6;
<i>PNN</i>	chr14	14q21.1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42500T: 6.5;
<i>PNO1</i>	chr2	2p14	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PNPLA7</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>PNPLA8</i>	chr7	7q31.1	3	0	1	2	Amplification	3	0	42487T: 3.5; 42501T: 3.5; 42497T: 4;
<i>PNPT1</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42500T: 3.5; 56957T: 3.5; 42484T: 4.5;
<i>PNRC2</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PODXL</i>	chr7	7q32.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PODXL2</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>POFUT1</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 4.5;
<i>POGLUT1</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>POGZ</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>POLD2</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 7.5;
<i>POLD3</i>	chr11	11q13.4	5	2	0	3	Amplification	5	0	42476T: 4; 42475T: 7.5; 42498T: 8; 42492T: 4; 56957T: 3.5;
<i>POLD4</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>POLE</i>	chr12	12q24.33	1	0	0	1	Amplification	1	0	56957T: 4;
<i>POLE2</i>	chr14	14q21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>POLE4</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>POLG</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>POLM</i>	chr7	7p13	2	1	0	0	Amplification	2	0	42497T: 7.5; 42473T: 4.5;
<i>POLQ</i>	chr3	5q13.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>POLR1A</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>POLR2F</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>POLR2H</i>	chr3	3q27.1	11	1	3	7	Amplification	11	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42497T: 4; 56957T: 5; 42474T: 3.5; 42495T: 4; 42494T: 3.5; 42498T: 3.5; 42484T: 4;
<i>POLR2I</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>POLR2J</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;
<i>POLR2J2</i>	chr7	7q22.1	3	0	1	2	Amplification	3	0	42501T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>POLR2J3</i>	chr7	7q22.1	3	0	1	2	Amplification	3	0	42501T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>POLR2J4</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 3.5;
<i>POLR2K</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>POLR3C</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>POLR3E</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>POLR3GL</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>POLR3K</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>POM121L4P</i>	chr22	22q11.21	2	1	0	1	Amplification	2	0	42477T: 4; 42497T: 13.5;
<i>POMC</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>POMT1</i>	chr9	9q34.13	1	0	1	0	Amplification	1	0	42484T: 3.5;
<i>POMT2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>PON1</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PON2</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PON3</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>POPI</i>	chr8	16p11.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>POP4</i>	chr19	Xp11.21	5	1	1	3	Amplification	5	0	42484T: 6; 42494T: 4; 56957T: 4; 42473T: 25; 42500T: 4.5;
<i>POP5</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>POPDC2</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>POT1</i>	chr7	7q31.33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>POTEA</i>	chr8	8p11.1	1	0	1	0	Amplification	1	0	42483T: 4.5;
<i>POTEB</i>	chr15	15q11.2	1	0	1	0	Amplification	1	0	42484T: 7.5;
<i>POTEB2</i>	chr15	15q11.2	2	1	1	0	Amplification/Deletio	1	1	42476T: 0.5; 42484T: 7.5;
<i>POU2F2</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>POU3F3</i>	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>POU5F1B</i>	chr8	8q24.21	5	1	1	3	Amplification	5	0	42495T: 3.5; 42493T: 10; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>POU5F1P4</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>POU6F1</i>	chr12	12q13.13	2	0	0	2	Amplification	2	0	42494T: 3.5; 42500T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>POU6F2</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PPAPDC1B</i>	chr8	8p11.23	2	0	1	1	Amplification	2	0	42482T: 3.5; 42493T: 3.5;
<i>PPAPDC3</i>	chr9	9q34.13	1	0	1	0	Amplification	1	0	42484T: 3.5;
<i>PPDPF</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>PPFIA1</i>	chr11	11q13.3	12	3	2	7	Amplification	12	0	42501T: 6; 42475T: 7.5; 42500T: 13; 56958T: 5.5; 42483T: 9; 42486T: 20.5; 42497T: 6.5; 56957T: 5; 42478T: 4.5; 42498T: 7; 42476T: 13.5; 42492T: 4;
<i>PPFIA4</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PPFIBP1</i>	chr12	12p11.23-p1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>PPHLN1</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PPIA</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PPIH</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PPIL2</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PPIL6</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>PPL</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 12;
<i>PPM1A</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42483T: 3.5; 42494T: 4;
<i>PPM1B</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>PPM1G</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PPM1L</i>	chr3	3q25.33-q26	8	1	2	5	Amplification	8	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42497T: 3.5; 42484T: 4; 42474T: 3.5; 42495T: 4; 56957T: 4;
<i>PPMIN</i>	chr19	19q13.32	2	1	1	0	Amplification	2	0	42484T: 4; 42473T: 3.5;
<i>PPME1</i>	chr11	11q13.4	5	2	0	3	Amplification	5	0	42475T: 7.5; 42476T: 4; 56957T: 3.5; 42492T: 4; 42498T: 8;
<i>PPP1CA</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>PPP1CB</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PPP1CC</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PPP1R12B</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PPP1R13L</i>	chr19	19q13.32	3	1	1	1	Amplification	3	0	42473T: 3.5; 42484T: 4; 56957T: 4;
<i>PPP1R14A</i>	chr19	19q13.2	4	1	1	2	Amplification	4	0	42484T: 3.5; 56957T: 4; 42474T: 4; 42500T: 6.5;
<i>PPP1R14D</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 6.5;
<i>PPP1R16A</i>	chr8	8q24.3	5	0	1	4	Amplification	5	0	42483T: 3.5; 42496T: 4; 42494T: 3.5; 42495T: 4.5; 56957T: 3.5;
<i>PPP1R16B</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PPP1R17</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PPP1R1A</i>	chr12	12q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
<i>PPP1R1B</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42473T: 6; 42497T: 3.5;
<i>PPP1R1C</i>	chr2	2q31.3-q32.1	1	0	0	1	Amplification	1	0	42493T: 4;
<i>PPP1R2</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42474T: 3.5; 42495T: 4;
<i>PPP1R21</i>	chr2	2p16.3	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
PPP1R26	chr9	9q34.3	1	0	1	0	Amplification	1	0	42484T: 4.5;
PPP1R36	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
PPP1R37	chr19	19q13.32	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
PPP1R3A	chr7	7q31.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
PPP1R3B	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
PPP1R3D	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
PPP1R3E	chr14	14q11.2	2	0	0	2	Amplification	2	0	42500T: 4; 42496T: 4;
PPP1R42	chr8	8q13.1	3	0	0	3	Amplification	3	0	42496T: 3.5; 42497T: 4.5; 42495T: 3.5;
PPP1R8	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
PPP1R9A	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
PPP2CA	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
PPP2CB	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
PPP2R3A	chr3	3q22.2-q22.3	4	0	1	3	Amplification	4	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
PPP2R3C	chr14	14q13.2	2	1	0	1	Amplification	2	0	42476T: 5; 42500T: 4.5;
PPP2R5E	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
PPP3CB	chr10	10q22.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
PPP3R1	chr2	2p14	1	0	0	1	Amplification	1	0	42500T: 3.5;
PPP4R1L	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
PPP5C	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
PPP5D1	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
PPP6R3	chr11	11q13.2	2	1	0	1	Amplification	2	0	42476T: 29.5; 56957T: 5;
PPT2	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
PPTC7	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
PQLC2	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
PQLC3	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
PRADC1	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
PRAME	chr22	22q11.22	1	1	0	0	Amplification	1	0	42477T: 4;
PRAMEF2	chr1	1p36.21	1	0	1	0	Amplification	1	0	42486T: 4.5;
PRAMEF22	chr1	1p36.21	1	0	1	0	Amplification	1	0	42486T: 4.5;
PRB2	chr12	12p13.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
PRB4	chr12	12p13.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
PRCC	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
PRDM11	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
PRDM14	chr8	8q13.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
PRDM15	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
PRDM9	chr5	5p14.2	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42493T: 4;
PREB	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
PREPL	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
PREX1	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
PREX2	chr8	8q13.2	3	0	0	3	Amplification	3	0	42495T: 3.5; 42497T: 4; 42496T: 3.5;
PRICKLE1	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PRIM2</i>	chr6	6p11.2	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>PRKAA1</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42486T: 3.5; 42483T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>PRKAB1</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42484T: 3.5; 42493T: 3.5;
<i>PRKAB2</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42500T: 3.5;
<i>PRKAG1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42473T: 4;
<i>PRKAR1B</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42500T: 3.5;
<i>PRKAR2B</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42473T: 5;
<i>PRKCB</i>	chr16	16p12.2-p12	1	1	0	0	Amplification	1	0	42487T: 3.5; 42493T: 3.5; 42501T: 3.5; 42497T: 4;
<i>PRKCE</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42473T: 4;
<i>PRKCH</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42484T: 4.5; 42500T: 3.5;
<i>PRKCI</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42494T: 4;
<i>PRKDI</i>	chr14	14q12	2	0	0	2	Amplification	2	0	42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>PRKD1</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42500T: 8; 42484T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4;
<i>PRKD2</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42484T: 7;
<i>PRKD3</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PRKDC</i>	chr8	8q11.21	5	0	2	3	Amplification	5	0	42484T: 3.5; 42495T: 3.5; 42494T: 3.5; 42482T: 5;
<i>PRKG2</i>	chr4	4q21.21	1	1	0	0	Amplification	1	0	42496T: 3.5;
<i>PRKRA</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42473T: 4;
<i>PRKRIP1</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5;
<i>PRKRIR</i>	chr11	11q13.5	1	0	0	1	Amplification	1	0	42493T: 3.5; 42501T: 3.5;
<i>PRLR</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42497T: 3.5;
<i>PRM1</i>	chr16	8q11.22-q11	2	1	0	1	Amplification	2	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>PRM2</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42495T: 5; 42473T: 5.5;
<i>PRM3</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 5;
<i>PRMT5</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>PRMT8</i>	chr12	12p13.32	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>PRND</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PRNP</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PRNT</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PROCR</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>PRODH</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 21;
<i>PRODH2</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>PROKRI</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PROM2</i>	chr2	2q11.1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4;
<i>PROS1</i>	chr3	3q11.1	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>PROSC</i>	chr8	8p11.23	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>PROX2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>PROZ</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PRPF3</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PRPF39</i>	chr14	14q21.2	1	0	0	0	Amplification	1	0	42500T: 5.5;
<i>PRPF40B</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PRPF6</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>PRPH</i>	chr12	6p21.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PRPS1L1</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PRR15</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>PRR19</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PRR23A</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>PRR23B</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>PRR23C</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>PRR25</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>PRR9</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>PRRC1</i>	chr5	5q23.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PRRC2A</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PRRC2B</i>	chr9	9q34.13	1	0	1	0	Amplification	1	0	42484T: 3.5;
<i>PRRT1</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PRRT4</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PRSSI</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PRSS29P</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>PRSS3</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42496T: 4;
<i>PRSS37</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PRSS3P2</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PRSS55</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>PRSS58</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PRTN3</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PRUNE</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PRX</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 4;
<i>PSCA</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>PSEN1</i>	chr14	14q24.2	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>PSENNEN</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>PSG1</i>	chr19	19q13.2	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PSG10P</i>	chr19	19q13.2	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PSG11</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PSG2</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PSG5</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PSG6</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PSG9</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PSKH2</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>PSMA2</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PSMA3</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>PSMA4</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PSMA6</i>	chr14	14q13.2	2	1	0	1	Amplification	2	0	42500T: 4.5; 42476T: 5;
<i>PSMA7</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>PSMB11</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>PSMB3</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PSMB4</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PSMB5</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>PSMC1</i>	chr14	14q32.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PSMC2</i>	chr7	7q22.1	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42497T: 4; 42501T: 3.5;
<i>PSMC3</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PSMC4</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
<i>PSMC6</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PSMD2</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42495T: 4; 42494T: 3.5; 42474T: 3.5; 56957T: 5; 42473T: 3.5; 42497T: 4;
<i>PSMD3</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>PSMD4</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PSMD8</i>	chr19	19q13.2	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>PSMD9</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PSME4</i>	chr2	2p16.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>PSMF1</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PSMG1</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PSMG3</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PSPH</i>	chr7	7p11.2	2	0	1	1	Amplification	2	0	56957T: 5; 42483T: 4;
<i>PTAFR</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PTBP1</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PTCD3</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PTDSS1</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>PTENP1</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42496T: 4;
<i>PTGDR</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PTGDS</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>PTGER2</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PTGER4</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42475T: 3.5; 42486T: 3.5; 42483T: 3.5; 42496T: 3.5; 42493T: 3.5; 42484T: 3.5;
<i>PTGIR</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 7;
<i>PTGIS</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>PTGR2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>PTHLH</i>	chr12	12p11.22	2	0	0	2	Amplification	2	0	42500T: 6; 42494T: 4;
<i>PTK2</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42483T: 3.5;
<i>PTK6</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>PTMS</i>	chr12	12p13.31	1	1	0	0	Amplification	1	0	42473T: 3.5;

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<i>PTN</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PTP4A2</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PTP4A3</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 3.5;
<i>PTPLAD2</i>	chr9	9p21.3	1	1	0	0	Deletion	0	1	42475T: 0.5;
<i>PTPLB</i>	chr3	3q21.1	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 3.5;
<i>PTPMT1</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PTPN1</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>PTPN11</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PTPN12</i>	chr7	7q11.23	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PTPN3</i>	chr9	9q31.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>PTPN6</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>PTPRA</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PTPRB</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 5.5;
<i>PTPRCAP</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>PTPRD</i>	chr9	9p24.1-p23	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>PTPRJ</i>	chr11	11p11.2	2	1	0	1	Amplification	2	0	56957T: 16.5; 42473T: 3.5;
<i>PTPRO</i>	chr12	1p35.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>PTPRR</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 5.5;
<i>PTPRT</i>	chr20	20q12-q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PTPRU</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PTPRZ1</i>	chr7	7q31.32	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>PTRHD1</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PTTG2</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 7.5;
<i>PTX3</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 3.5; 42497T: 5.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>PTX4</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>PUF60</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>PUM1</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PUM2</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PURB</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>PURG</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>PUS10</i>	chr2	2p16.1-p15	3	0	1	2	Amplification	3	0	42500T: 3.5; 56957T: 3.5; 42484T: 4.5;
<i>PUS7</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42497T: 4; 42501T: 3.5;
<i>PUS7L</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PVALB</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>PVR</i>	chr19	19q13.31	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
<i>PVRL2</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
<i>PVT1</i>	chr8	8q24.21	5	1	1	3	Amplification	5	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5; 42493T: 10; 42484T: 3.5;
<i>PXDN</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;

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<i>PXDNL</i>	chr8	8q11.22-q11	5	0	2	3	Amplification	5	0	42484T: 4; 42495T: 3.5; 42494T: 3.5; 42496T: 3.5; 42482T: 3.5;
<i>PXMP2</i>	chr12	12q24.33	1	0	0	1	Amplification	1	0	56957T: 4;
<i>PXMP4</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
<i>PXN</i>	chr12	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>PYCR2</i>	chr1	1q42.12	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>PYCRL</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>PYDC2</i>	chr3	3q28	9	1	3	5	Amplification	9	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5;
<i>PYGL</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>PYGO2</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 6.5; 42496T: 3.5;
<i>PYROXD1</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>QPCT</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>QPCTL</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>QSL1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>QSOX1</i>	chr1	1q25.2	1	0	0	1	Amplification	1	0	42493T: 4;
<i>QSOX2</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>QTRTD1</i>	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>R3HDM4</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>R3HDML</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RAB10</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RAB11FIP1</i>	chr8	8p11.23	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>RAB11FIP3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>RAB11FIP4</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RAB13</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RAB15</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>RAB19</i>	chr7	7q34	2	1	1	0	Amplification	2	0	42487T: 3.5; 42473T: 3.5;
<i>RAB1A</i>	chr2	2p14	2	0	0	2	Amplification	2	0	56957T: 3.5; 42500T: 3.5;
<i>RAB21</i>	chr12	12q21.1	1	0	0	1	Amplification	1	0	42501T: 6.5;
<i>RAB22A</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RAB23</i>	chr6	6p12.1-p11.2	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>RAB25</i>	chr1	1q22	2	1	0	1	Amplification	2	0	42493T: 4; 42473T: 4.5;
<i>RAB26</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>RAB2A</i>	chr8	8q12.1-q12.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>RAB2B</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 5;
<i>RAB35</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RAB3IP</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42501T: 5.5; 42500T: 5;
<i>RAB40C</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>RAB42</i>	chr1	14q32.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RAB43</i>	chr3	3q21.3	3	0	1	2	Amplification	3	0	42496T: 3.5; 42487T: 3.5; 42493T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>RAB4B</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>RAB5B</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>RAB6A</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	56957T: 3.5; 42478T: 6; 42492T: 4; 42498T: 8; 42475T: 8.5; 42476T: 4;
<i>RAB6B</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42487T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>RAB7A</i>	chr3	3q21.3	3	0	1	2	Amplification	3	0	42493T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>RAB7L1</i>	chr1	1q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>RABAC1</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RABIF</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RABL3</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>RABL5</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;
<i>RABL6</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>RAC1</i>	chr7	14q11.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RAC2</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RAC3</i>	chr17	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RACGAP1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RAD1</i>	chr5	16q22.1	4	1	1	2	Amplification	4	0	42493T: 3.5; 42496T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>RAD21</i>	chr8	8q24.11	3	1	0	2	Amplification	3	0	42495T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>RAD21L1</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RAD51AP1</i>	chr12	12p13.32	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>RAD51AP2</i>	chr2	2p24.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RAD51B</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>RAD51C</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>RAD52</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RAD54B</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>RAD9A</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>RAD9B</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RADIL</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 8.5; 42473T: 4.5;
<i>RAE1</i>	chr20	14q11.2	1	1	0	0	Amplification	1	0	42473T: 7;
<i>RAI14</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>RALA</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RALGAP1</i>	chr14	14q13.2	2	1	0	1	Amplification	2	0	42500T: 8.5; 42476T: 5;
<i>RALGAP2</i>	chr20	20p11.23	1	0	1	0	Amplification	1	0	42483T: 4;
<i>RALGAPB</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RALY</i>	chr20	20q11.22	3	1	0	2	Amplification	3	0	42493T: 3.5; 42473T: 3.5; 42496T: 5;
<i>RALYL</i>	chr8	8q21.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>RAMP3</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RANBP3L</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>RANBP6</i>	chr9	9p24.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42498T: 14;
<i>RAP1B</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 6.5;
<i>RAP1GAP</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>RAP2B</i>	chr3	3q25.2	9	1	2	6	Amplification	9	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42497T: 5.5; 42496T: 4; 42500T: 3.5; 42484T: 3.5; 42474T: 3.5; 56957T: 4;
<i>RAPGEF1</i>	chr9	9q34.13	1	0	1	0	Amplification	1	0	42484T: 3.5;
<i>RAPGEF3</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RAPGEF4</i>	chr2	2q31.1	2	1	0	1	Amplification	2	0	42493T: 5; 42473T: 6;
<i>RAPGEF5</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RAPGEFL1</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 4;
<i>RAPSN</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RARRES1</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	42497T: 3.5; 42484T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>RASA1</i>	chr5	6p21.32	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>RASA2</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>RASA3</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>RASA4</i>	chr7	7q22.1	3	0	1	2	Amplification	3	0	42493T: 3.5; 42487T: 3.5; 42501T: 3.5;
<i>RASA4B</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;
<i>RASA4CP</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 7.5;
<i>RASAL1</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RASD2</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RASGEF1B</i>	chr4	4q21.21	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RASGRP3</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RASSF2</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RASSF8</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>RB1</i>	chr13	13q14.2	1	0	0	1	Deletion	0	1	42495T: 0.5;
<i>RBAK</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 8.5; 42473T: 4.5;
<i>RBBP6</i>	chr16	16p12.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RBBP8</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 4;
<i>RBBP8NL</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>RBCK1</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RBFOX1</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>RBFOX2</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RBKS</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RBL1</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RBM12</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>RBM12B</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>RBM14</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5.5; 42473T: 3.5;
<i>RBM19</i>	chr12	12q24.13-q2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RBM23</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>RBM25</i>	chr14	14q24.2	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>RBM28</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>RBM34</i>	chr1	1q42.3	1	1	0	0	Amplification	1	0	42473T: 6.5;

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<i>RBM38</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 7;
<i>RBM39</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>RBM4</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5.5; 42473T: 3.5;
<i>RBM42</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>RBM45</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>RBM48</i>	chr7	7q21.2	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>RBM4B</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5.5; 42473T: 3.5;
<i>RBM8A</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RBP1</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>RBP2</i>	chr3	12q24.33	4	0	1	3	Amplification	4	0	42496T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>RBP5</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>RBPJL</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>RBPMS</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>RCAN3</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RCBTB2</i>	chr13	13q14.2	1	0	0	1	Deletion	0	1	42495T: 0.5;
<i>RCC1</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RCE1</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5.5; 42473T: 3.5;
<i>RCL1</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>RDH10</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>RDH11</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>RDH12</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>RDH14</i>	chr2	2p24.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RDH5</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>RECK</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>RECQL</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>REEP1</i>	chr2	2p11.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 42493T: 3.5;
<i>REG1A</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>REG1B</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>REG3A</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>REG3G</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>REL</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42500T: 3.5; 42484T: 4.5; 56957T: 3.5;
<i>RELB</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 4;
<i>RELL1</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RELN</i>	chr7	7q22.1	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42501T: 3.5; 42497T: 4;
<i>RELT</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	56957T: 3.5; 42498T: 6.5; 42492T: 4; 42478T: 4.5;
<i>REM1</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>REM2</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>REP15</i>	chr12	12p11.22	1	0	0	1	Amplification	1	0	42500T: 6;
<i>RERG</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>RETSAT</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;

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<i>REV1</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>REV3L</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>RFC4</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42497T: 4; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>RFC5</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RFNG</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RFPL4A</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>RFPL4AL1</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>RFPL4B</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>RFTN2</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>RFX3</i>	chr9	9p24.2	3	0	1	2	Amplification/Deletion	2	1	42486T: 0.5; 42496T: 3.5; 42498T: 4;
<i>RFX5</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RFX8</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>RGPI</i>	chr9	2p11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>RGPD2</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RGS11</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>RGS19</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>RGS20</i>	chr8	8q11.23	3	0	0	3	Amplification	3	0	42494T: 4; 42495T: 3.5; 42496T: 3.5;
<i>RGS22</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>RGS6</i>	chr14	14q24.2	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>RGS9BP</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	56957T: 4; 42484T: 3.5; 42500T: 4.5; 42473T: 3.5;
<i>RHBDF1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>RHBDL1</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>RHBG</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RHCE</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RHCG</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RHD</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RHEBL1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RHO</i>	chr3	3q22.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>RHOA</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RHOB</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RHOD</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5.5;
<i>RHOF</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RHOJ</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>RHOQ</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>RHOT2</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>RHOV</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 6.5;
<i>RHPN1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>RHPN2</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	42500T: 4.5; 42473T: 7; 56957T: 4; 42484T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>RICTOR</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42484T: 3.5; 42493T: 3.5; 42486T: 3.5; 42483T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>RILAD1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RILPL1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RILPL2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RIMS2</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>RIMS4</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>RIN2</i>	chr20	20p11.23	1	0	1	0	Amplification	1	0	42483T: 4;
<i>RINL</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>RINT1</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42501T: 3.5; 42497T: 4; 42487T: 3.5; 42493T: 3.5;
<i>RIOK3</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 4;
<i>RIPK2</i>	chr8	8q21.3	3	1	0	2	Amplification	3	0	42495T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>RIPK4</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RIT1</i>	chr1	14q32.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RLN1</i>	chr9	9p24.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42498T: 14;
<i>RLN2</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>RMDN1</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>RMDN2</i>	chr2	2p22.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 42493T: 3.5;
<i>RMI2</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42495T: 5; 42473T: 5.5;
<i>RMND5A</i>	chr2	2p11.2	2	0	0	2	Amplification	2	0	42493T: 3.5; 42500T: 3.5;
<i>RNA5SP96</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RNASEH1</i>	chr2	17p11.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42500T: 3.5;
<i>RND1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RNF10</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RNF103</i>	chr2	2p11.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 42493T: 3.5;
<i>RNF114</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>RNF115</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RNF121</i>	chr11	11q13.4	7	3	0	4	Amplification	7	0	42501T: 6; 42475T: 5; 42476T: 4; 56957T: 3.5; 42498T: 5; 42492T: 4; 42478T: 4.5;
<i>RNF122</i>	chr8	8p12	2	0	1	1	Amplification	2	0	42497T: 4.5; 42482T: 3.5;
<i>RNF123</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RNF126P1</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>RNF13</i>	chr3	3q25.1	9	2	2	5	Amplification	9	0	56957T: 4; 42474T: 3.5; 42484T: 3.5; 42496T: 4; 42497T: 4.5; 42473T: 4; 42493T: 3.5; 42487T: 3.5;
<i>RNF135</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RNF139</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>RNF144A</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RNF149</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>RNF151</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>RNF168</i>	chr3	3q29	9	1	3	5	Amplification	9	0	56957T: 6; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42487T: 3.5; 42493T: 5; 42492T: 3.5;
<i>RNF169</i>	chr11	11q13.4	4	1	0	3	Amplification	4	0	42492T: 4; 42498T: 8; 56957T: 3.5; 42475T: 7.5;
<i>RNF170</i>	chr8	8p11.21	1	0	1	0	Amplification	1	0	42483T: 4.5;
<i>RNF181</i>	chr2	2p11.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42482T: 3.5;
<i>RNF186</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RNF19A</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>RNF208</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>RNF213</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RNF215</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RNF216</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 10.5; 42473T: 4.5;
<i>RNF216P1</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 8.5; 42473T: 4.5;
<i>RNF224</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>RNF24</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RNF34</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RNF38</i>	chr9	9p13.2	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>RNF41</i>	chr12	12q13.3	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>RNF43</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>RNF5</i>	chr6	6p21.32	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RNF7</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>RNF8</i>	chr6	6p21.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RNFT2</i>	chr12	12q24.22	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RNPS1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>ROCK1P1</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	42500T: 4.5; 42493T: 3.5; 56957T: 8;
<i>ROCK2</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ROGDI</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42495T: 12; 42473T: 5.5;
<i>ROMO1</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>ROPN1</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ROPN1B</i>	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ROPN1L</i>	chr5	5p15.2	4	1	1	2	Amplification	4	0	42486T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 4;
<i>RORC</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RP11</i>	chr1	19q13.42	4	1	2	1	Amplification/Deletion	13	1	42475T: 3.5,5,7.5; 42486T: 3.5,0.5; 42498T: 3.5,14.5,5,8; 42484T: 4.5,4,3.5,7.5,12.5;
<i>RP1L1</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>RP9</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RP9P</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RPA2</i>	chr1	2q14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RPAP3</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RPF2</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>RPIA</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>RPL11</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RPL19</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RPL22L1</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42500T: 8; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4;
<i>RPL23</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RPL24</i>	chr3	15q21.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>RPL28</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>RPL3</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RPL30</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>RPL31</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>RPL32P3</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>RPL35A</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42493T: 4; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 56957T: 6; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 3.5;
<i>RPL36AL</i>	chr14	14q21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RPL37</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42493T: 3.5; 42484T: 3.5; 42475T: 3.5; 42483T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>RPL39L</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42497T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>RPL3L</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>RPL41</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>RPL6</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RPL7</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>RPL8</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>RPLP0</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RPLP0P6</i>	chr2	2p22.1	2	0	0	2	Amplification	2	0	42500T: 3.5; 42493T: 3.5;
<i>RPN1</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42496T: 3.5;
<i>RPN2</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RPRD1B</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RPRD2</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 5;
<i>RPS15A</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>RPS16</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>RPS19</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RPS19BP1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RPS2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>RPS20</i>	chr8	8q12.1	3	0	1	2	Amplification	3	0	42483T: 5; 42496T: 3.5; 42495T: 3.5;
<i>RPS21</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>RPS25</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RPS26</i>	chr12	13q32.3	1	0	0	1	Amplification	1	0	42494T: 9.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>RPS27</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RPS27A</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42500T: 3.5; 42484T: 4.5; 56957T: 3.5;
<i>RPS29</i>	chr14	14q21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RPS3</i>	chr11	11q13.4	2	0	0	2	Amplification	2	0	42498T: 8; 42492T: 4;
<i>RPS6KB2</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	56957T: 5; 42473T: 3.5;
<i>RPS6KL1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>RPS7</i>	chr2	2p25.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42500T: 3.5;
<i>RPTN</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RPUSD1</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
<i>RRM2</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RRM2B</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>RRN3</i>	chr16	16p13.11	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>RRN3P1</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RRN3P3</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>RRNAD1</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>RRS1</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42497T: 4;
<i>RSAD1</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RSAD2</i>	chr2	2p25.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RSBN1L</i>	chr7	7q11.23	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>RSG1</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
<i>RSL1D1</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>RSPH1</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RSPH10B</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 8;
<i>RSPH10B2</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 5.5; 42497T: 7.5;
<i>RSPH6A</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>RSPO2</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>RSPO4</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>RSRC1</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42497T: 3.5; 42484T: 3.5; 56957T: 4; 42474T: 3.5; 42495T: 4;
<i>RSRC2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RTKL1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>RTFDC1</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 5;
<i>RTKN</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>RTN1</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42483T: 3.5; 42494T: 4;
<i>RTN2</i>	chr19	19q13.32	2	1	1	0	Amplification	2	0	42473T: 3.5; 42484T: 4;
<i>RTN4</i>	chr2	2p16.1	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>RTN4IP1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>RTN4R</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42477T: 4;
<i>RTP1</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42497T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>RTP2</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42497T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>RTP4</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5; 42498T: 3.5; 42484T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42497T: 4;
<i>RUNDC3B</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42483T: 3.5; 42487T: 3.5;
<i>RUNX1T1</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>RUNX3</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RUSC1</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>RUSC2</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>RUVBL1</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>RXFP2</i>	chr13	13q13.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>RXFP3</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>RXFP4</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>RYK</i>	chr3	3q22.2	4	0	1	3	Amplification	4	0	42496T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>RYR1</i>	chr19	19q13.2	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>S100A1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A10</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A11</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A12</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>S100A13</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A14</i>	chr1	7q22.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A16</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A2</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A3</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A4</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A5</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A6</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>S100A7</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>S100A7A</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>S100A7L2</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42493T: 4; 42473T: 4.5;
<i>S100A8</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>S100A9</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>SAG</i>	chr2	3q23	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SALL2</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>SALL4</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SAMD10</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>SAMD12</i>	chr8	8q24.11-q24	3	1	0	2	Amplification	3	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5;
<i>SAMD15</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>SAMD4A</i>	chr14	14q22.2	1	0	0	1	Amplification	1	0	42494T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SAMD4B</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>SAMD7</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42484T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4; 42500T: 8; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>SAMD9</i>	chr7	7q21.2	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>SAMD9L</i>	chr7	7q21.2	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>SAMHD1</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SAP30BP</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>SAPCD1</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SAPCD2</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>SAR1B</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SARNP</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>SARS2</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>SATB2</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>SAVI</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SBDS</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>SBK2</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>SBNO1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SBSN</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>SBSPON</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>SCAF11</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SCAMP2</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SCAMP3</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>SCAND1</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SCAND2P</i>	chr15	15q25.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SCARB1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SCARF2</i>	chr22	22q11.21	2	1	0	1	Amplification	2	0	42497T: 3.5; 42477T: 4;
<i>SCFD1</i>	chr14	14q12	3	0	0	3	Amplification	3	0	56957T: 4; 42494T: 3.5; 42500T: 4.5;
<i>SCGB2B2</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 42484T: 3.5; 56957T: 4;
<i>SCHIP1</i>	chr3	3q25.32-q25	8	1	2	5	Amplification	8	0	42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4; 42497T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>SCIN</i>	chr7	7p21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SCLY</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SCML4</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SCN1B</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>SCN8A</i>	chr12	12q13.13	1	0	0	1	Amplification	1	0	42494T: 5.5;
<i>SCNMI</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SCNN1B</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SCNN1G</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SCPEP1</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>SCRIB</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SCRN1</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SCRN3</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SCRT1</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	56957T: 3.5; 42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>SCRT2</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SCXA</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>SCXB</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
<i>SDC1</i>	chr2	2p24.1	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4;
<i>SDC2</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>SDC3</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SDC4</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SDCBP</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>SDCBP2</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SDCCAG3</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>SDE2</i>	chr1	1q42.12	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SDF2L1</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SDHA</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42486T: 3.5; 42496T: 4; 42473T: 3.5; 42475T: 3.5;
<i>SDHAF1</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>SDHAP1</i>	chr3	3q29	9	1	3	5	Amplification	9	0	56957T: 6; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>SDHAP3</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42486T: 3.5; 42496T: 4; 42473T: 3.5; 42475T: 3.5;
<i>SDK1</i>	chr7	7p22.2	2	1	0	1	Amplification	3	0	42473T: 4.5; 42497T: 13,8.5;
<i>SDPR</i>	chr2	2q32.3	3	0	1	2	Amplification	3	0	42482T: 4; 42493T: 3.5; 42494T: 3.5;
<i>SDR16C5</i>	chr8	8q12.1	3	0	1	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42483T: 5;
<i>SDR16C6P</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>SDR42E2</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SDS</i>	chr12	7q11.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SDSL</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SEC11A</i>	chr15	15q25.2-q25	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SEC14L2</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SEC14L5</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42495T: 12; 42473T: 5.5;
<i>SEC16A</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>SEC22A</i>	chr3	3q21.1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 3.5;
<i>SEC22B</i>	chr1	1p12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SEC23A</i>	chr14	14q21.1	1	0	0	1	Amplification	1	0	42500T: 6.5;
<i>SEC24A</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SEC24C</i>	chr10	10q22.2	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 4.5;
<i>SEC61A1</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>SEC61G</i>	chr7	7p11.2	3	0	1	2	Amplification	3	0	56957T: 5; 42497T: 21.5; 42483T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SEC62</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4; 42500T: 8;
<i>SEC63</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SELENBP1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SELT</i>	chr3	3q25.1	10	2	2	6	Amplification	10	0	42474T: 3.5; 56957T: 4; 42484T: 3.5; 42500T: 3.5; 42473T: 4; 42496T: 4; 42497T: 4.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>SELV</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
<i>SEMA3A</i>	chr7	7q21.11	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SEMA3C</i>	chr7	7q21.11	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SEMA3D</i>	chr7	7q21.11	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 4.5;
<i>SEMA3E</i>	chr7	7q21.11	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SEMA4A</i>	chr1	1q22	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>SEMA4B</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SEMA4C</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4.5;
<i>SEMA4F</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SEMA5A</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>SEMA5B</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SEMA6C</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SEMA7A</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SEMG1</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SEMG2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SENP1</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SENP2</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42484T: 4; 42498T: 3.5; 42497T: 4;
<i>SENP5</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42493T: 5; 42487T: 3.5; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 6;
<i>SENP7</i>	chr3	3q12.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>SEPN1</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SEPP1</i>	chr5	5p12	5	1	2	2	Amplification	5	0	42493T: 3.5; 42483T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>SEPT12</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42495T: 12; 42473T: 5.5;
<i>SEPT14</i>	chr7	7p11.2	3	0	1	2	Amplification	3	0	56957T: 5; 42497T: 6.5; 42483T: 4;
<i>SEPT4</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>SEPT5</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>SEPT7</i>	chr7	7p14.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SEPT7P2</i>	chr7	7p12.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SEPT7P9</i>	chr10	10p11.1	1	0	0	1	Amplification	1	0	56958T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SERINC2</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SERINC3</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SERP1</i>	chr3	3q25.1	9	2	2	5	Amplification	9	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 56957T: 4; 42474T: 3.5; 42484T: 3.5; 42497T: 4.5; 42473T: 4; 42496T: 4;
<i>SERPIND1</i>	chr22	22q11.21	2	1	0	1	Amplification	2	0	42497T: 13.5; 42477T: 4;
<i>SERPING1</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>SERPINH1</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42492T: 4; 42498T: 6.5;
<i>SERPINI1</i>	chr3	3q26.1	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42500T: 8; 42484T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4;
<i>SERPINI2</i>	chr3	3q26.1	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42500T: 8; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4;
<i>SERTAD1</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 4;
<i>SERTAD2</i>	chr2	2p14	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 3.5;
<i>SERTAD3</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>SESN1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SESN2</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SESTD1</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SETD1B</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SETD8</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SETDB1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SF3A1</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SF3B1</i>	chr2	2q33.1	1	0	1	0	Amplification	1	0	42482T: 4;
<i>SF3B14</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SF3B4</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SFRP4</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SFTA3</i>	chr14	14q13.3	2	1	0	1	Amplification	2	0	42500T: 8.5; 42476T: 8;
<i>SFTPB</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SFXN5</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SGCE</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SGK110</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>SGK196</i>	chr8	8p11.21	1	0	1	0	Amplification	1	0	42483T: 4.5;
<i>SGK2</i>	chr20	8q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SGK223</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>SGK3</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42497T: 4.5; 42496T: 3.5; 42495T: 3.5;
<i>SGPP1</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SGSH</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SGSM3</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SH2B2</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SH2B3</i>	chr12	12q24.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SH2D2A</i>	chr1	1q23.1	1	1	0	0	Amplification	1	0	42473T: 7;
<i>SH2D5</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SH2D6</i>	chr2	2p11.2	2	0	1	1	Amplification	2	0	42482T: 3.5; 42500T: 3.5;
<i>SH2D7</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SH3BGR</i>	chr21	Xq21.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SH3BP1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SH3GLP1</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SH3GLB1</i>	chr1	1p22.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SH3YL1</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SHANK2</i>	chr11	11q13.3-q13	11	3	1	7	Amplification	14	0	42476T: 13.5,4; 42492T: 4; 42500T: 13,19; 56958T: 5.5; 42475T: 7.5; 42501T: 6; 42497T: 6.5; 42483T: 9; 56957T: 5; 42498T: 7.5; 42478T: 4.5;
<i>SHARPIN</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>SHC1</i>	chr1	1q21.3	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 6.5;
<i>SHE</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SHFM1</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SHISA9</i>	chr16	16p13.12	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>SHKBP1</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>SHOX2</i>	chr3	3q25.32	8	1	2	5	Amplification	8	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 3.5; 56957T: 4; 42474T: 3.5; 42495T: 4; 42497T: 3.5;
<i>SI</i>	chr3	12q13.2	9	1	3	5	Amplification	9	0	42500T: 4; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>SLAH2</i>	chr3	3q25.1	10	2	2	6	Amplification	10	0	42474T: 3.5; 56957T: 4; 42484T: 3.5; 42500T: 3.5; 42496T: 4; 42473T: 4; 42497T: 4.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>SIDT1</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SIGLEC1</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 6;
<i>SIPA1L1</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SIPA1L3</i>	chr19	19q13.13-q1	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>SIRPA</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SIRPB1</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SIRPB2</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SIRPD</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SIRPG</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SIRT2</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>SIRT4</i>	chr12	12q24.23-q2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SIT1</i>	chr9	3p21.31	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>SIX1</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42483T: 3.5; 42494T: 4;
<i>SIX2</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SIX3</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>SIX4</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42483T: 3.5; 42494T: 4;
<i>SIX5</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>SIX6</i>	chr14	14q23.1	2	0	1	1	Amplification	2	0	42494T: 4; 42483T: 3.5;
<i>SKAP2</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SKIL</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42500T: 8; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>SKIV2L</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SKP1</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SKP2</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42475T: 3.5; 42486T: 3.5; 42496T: 3.5; 42493T: 3.5;
<i>SLA</i>	chr8	4p15.2	3	0	1	2	Amplification	3	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5;
<i>SLA2</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLAIN2</i>	chr4	4p11	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>SLC10A1</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SLC10A4</i>	chr4	4p11	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>SLC10A5</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>SLC11A2</i>	chr12	12q13.12	2	0	0	2	Amplification	2	0	42494T: 3.5; 42500T: 3.5;
<i>SLC12A2</i>	chr5	5q23.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLC12A5</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SLC12A7</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42475T: 3.5; 42473T: 3.5; 42496T: 4; 42486T: 3.5;
<i>SLC12A8</i>	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SLC12A9</i>	chr7	7q22.1	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>SLC13A1</i>	chr7	7q31.32	2	0	1	1	Amplification	2	0	42487T: 3.5; 42493T: 3.5;
<i>SLC13A3</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SLC13A4</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SLC15A2</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SLC15A5</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>SLC16A10</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SLC16A8</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLC17A9</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>SLC1A1</i>	chr9	9p24.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SLC1A3</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42475T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>SLC1A4</i>	chr2	2p14	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 3.5;
<i>SLC1A7</i>	chr1	1p32.3	1	0	0	1	Amplification	1	0	42496T: 4;
<i>SLC22A13</i>	chr3	3p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SLC22A16</i>	chr6	6q21 6q21-q	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SLC22A17</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42496T: 4; 42500T: 4;
<i>SLC23A2</i>	chr20	5q31.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SLC24A3</i>	chr20	20p11.23	1	0	1	0	Amplification	1	0	42483T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SLC24A6</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC25A1</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 21;
<i>SLC25A13</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SLC25A19</i>	chr17	17q25.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SLC25A21</i>	chr14	14q13.3	2	1	0	1	Amplification	2	0	42476T: 8; 42500T: 8.5;
<i>SLC25A32</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>SLC25A36</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>SLC25A40</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42483T: 3.5; 42487T: 3.5;
<i>SLC25A44</i>	chr1	1q22	2	1	0	1	Amplification	2	0	42493T: 4; 42473T: 4.5;
<i>SLC25A52</i>	chr18	18q12.1	1	0	0	1	Amplification	1	0	42501T: 5.5;
<i>SLC26A11</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLC26A3</i>	chr7	7q22.3-q31.1	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42501T: 3.5; 42497T: 4;
<i>SLC26A4</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42497T: 4; 42501T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>SLC26A5</i>	chr7	7q22.1	4	0	1	3	Amplification	4	0	42497T: 4; 42501T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>SLC26A7</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>SLC26A9</i>	chr1	1q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SLC27A3</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SLC28A1</i>	chr15	15q25.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SLC29A2</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5.5;
<i>SLC29A4</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 8.5;
<i>SLC2A1</i>	chr1	1p34.2	2	0	0	2	Amplification	2	0	42496T: 5.5; 42493T: 6;
<i>SLC2A10</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SLC2A13</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC2A2</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42500T: 8; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4;
<i>SLC2A4RG</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>SLC30A3</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC30A6</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC30A8</i>	chr8	8q24.11	3	1	0	2	Amplification	3	0	42495T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>SLC32A1</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLC33A1</i>	chr3	3q25.31	8	1	2	5	Amplification	8	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 3.5; 42474T: 3.5; 56957T: 4; 42497T: 5.5; 42496T: 4.5;
<i>SLC34A3</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>SLC35A5</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SLC35B4</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SLC35C1</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLC35C2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SLC35E3</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 6.5;
<i>SLC35F4</i>	chr14	14q22.3-q23	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SLC35F6</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SLC35G5</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>SLC37A1</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLC37A3</i>	chr7	7q34	2	1	1	0	Amplification	2	0	42473T: 3.5; 42487T: 3.5;
<i>SLC37A4</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SLC38A1</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC38A2</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC38A4</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC38A6</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SLC39A1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SLC39A10</i>	chr2	2q32.3	2	0	1	1	Amplification	2	0	42482T: 4; 42493T: 3.5;
<i>SLC39A13</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLC39A4</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42496T: 4; 42483T: 3.5; 56957T: 3.5; 42495T: 4.5;
<i>SLC39A5</i>	chr12	12q13.3	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>SLC39A9</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SLC3A1</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 3.5;
<i>SLC40A1</i>	chr2	2q32.2	2	0	1	1	Amplification	2	0	42493T: 3.5; 42482T: 4;
<i>SLC41A1</i>	chr1	1q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SLC41A3</i>	chr3	3q21.2-q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SLC45A2</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42475T: 3.5; 42486T: 3.5; 42496T: 3.5; 42493T: 3.5;
<i>SLC45A4</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 3.5; 42496T: 4; 42483T: 3.5;
<i>SLC48A1</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC4A11</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLC4A1AP</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC4A5</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC4A8</i>	chr12	12q13.13	2	0	0	2	Amplification	2	0	42500T: 3.5; 42494T: 3.5;
<i>SLC50A1</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>SLC51A</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42498T: 3.5; 42484T: 4; 56957T: 6; 42495T: 4; 42474T: 3.5; 42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 5;
<i>SLC52A2</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42496T: 4; 42483T: 3.5; 56957T: 3.5; 42495T: 4.5;
<i>SLC52A3</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SLC5A11</i>	chr16	16p12.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SLC5A6</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC6A12</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC6A13</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC6A18</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42475T: 3.5; 42486T: 3.5; 42496T: 4; 42473T: 3.5; 42493T: 3.5;
<i>SLC6A19</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42486T: 3.5; 42473T: 3.5; 42496T: 4; 42475T: 3.5; 42493T: 3.5;
<i>SLC6A3</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42473T: 3.5; 42496T: 4; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SLC7A10</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 56957T: 4; 42484T: 3.5;
<i>SLC7A14</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4; 42500T: 8; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>SLC7A4</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42477T: 4;
<i>SLC7A7</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>SLC7A8</i>	chr14	14q11.2	2	0	0	2	Amplification	2	0	42496T: 4; 42500T: 4;
<i>SLC7A9</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	42500T: 4.5; 42473T: 7; 56957T: 4; 42484T: 3.5;
<i>SLC8A1</i>	chr2	2p22.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SLC8A3</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SLC9A2</i>	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SLC9A3</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42486T: 3.5; 42473T: 3.5; 42496T: 4; 42475T: 3.5;
<i>SLC9A3R2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>SLC9A4</i>	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SLC9A8</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SLC9A9</i>	chr3	3q24	6	1	1	4	Amplification	6	0	42474T: 3.5; 42487T: 3.5; 56957T: 4; 42493T: 3.5; 42492T: 3.5; 42496T: 4;
<i>SLC9C1</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SLCO1A2</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>SLCO1B1</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>SLCO1B3</i>	chr12	12p12.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>SLCO1B7</i>	chr12	12p12.2	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>SLCO2A1</i>	chr3	3q22.1-q22.2	3	0	1	2	Amplification	3	0	42496T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>SLCO2B1</i>	chr11	11q13.4	2	0	0	2	Amplification	2	0	42498T: 8; 42492T: 4;
<i>SLCO4A1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>SLCO5A1</i>	chr8	8q13.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>SLIRP</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>SLITRK3</i>	chr3	3q26.1	9	1	3	5	Amplification	9	0	42500T: 4; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>SLMO2</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SLPI</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SLURP1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>SLX4</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>SMAD4</i>	chr18	18q21.2	1	0	0	1	Deletion	0	1	56957T: 0;
<i>SMAGP</i>	chr12	12q13.13	2	0	0	2	Amplification	2	0	42494T: 5.5; 42500T: 3.5;
<i>SMARCA2</i>	chr9	9p24.3	2	0	1	1	Amplification/Deletion	1	1	42496T: 3.5; 42486T: 0.5;
<i>SMARCC2</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 7.5;
<i>SMARCD1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;

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<i>SMC4</i>	chr3	3q25.33	8	1	2	5	Amplification	8	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4; 42497T: 3.5;
<i>SMC6</i>	chr2	2p24.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SMCHD1</i>	chr18	18p11.32	2	0	0	2	Amplification	2	0	56957T: 8; 42500T: 4.5;
<i>SMCO1</i>	chr3	3q29	9	1	3	5	Amplification	9	0	56957T: 6; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42487T: 3.5; 42493T: 5; 42492T: 3.5; 42482T: 3.5;
<i>SMCO2</i>	chr12	12p11.23	1	0	0	1	Amplification	1	0	42500T: 6;
<i>SMCO3</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>SMCP</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>SMCR7L</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SMEK2</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42500T: 3.5; 56957T: 3.5; 42484T: 4.5;
<i>SMG1</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>SMG5</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SMG9</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>SMIM18</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>SMIM19</i>	chr8	8p11.21	1	0	1	0	Amplification	1	0	42483T: 4.5;
<i>SMIM22</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 12;
<i>SMKR1</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SMO</i>	chr7	20p13	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SMOC1</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SMOX</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SMPD2</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SMPDL3B</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SMTNL1</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>SMUG1</i>	chr12	12q13.13	2	1	0	1	Amplification	2	0	42494T: 3.5; 42473T: 3.5;
<i>SMYD1</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SMYD5</i>	chr2	2p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SNAI1</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>SNAI2</i>	chr8	8q11.21	5	0	2	3	Amplification	5	0	42496T: 3.5; 42482T: 3.5; 42494T: 3.5; 42495T: 3.5; 42484T: 3.5;
<i>SNAP25</i>	chr20	20p12.2	1	0	1	0	Amplification	1	0	42486T: 4;
<i>SNAP29</i>	chr22	22q11.21	2	1	0	1	Amplification	2	0	42477T: 4; 42497T: 4;
<i>SNAPC1</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SNAPC4</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>SNAPIN</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SND1</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SNHG11</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SNHG15</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SNHG17</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SNHG6</i>	chr8	8q13.1 8q13	3	0	0	3	Amplification	3	0	42495T: 3.5; 42497T: 4.5; 42496T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SNHG9</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>SNV</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42473T: 12.5; 42495T: 4;
<i>SNORA71A</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SNORA71B</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SNORD56</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SNORD57</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SNPH</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SNRNP200</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>SNRNP25</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>SNRNP27</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SNRNP35</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SNRNP40</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SNRPA</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 4;
<i>SNRPB</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SNRPD2</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;
<i>SNRPG</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SNTA1</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>SNTB1</i>	chr8	8q24.12	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5; 42484T: 3.5; 42482T: 3.5; 42496T: 3.5; 42494T: 3.5; 42495T: 3.5;
<i>SNTG1</i>	chr8	8q11.21	5	0	2	3	Amplification	5	0	42484T: 3.5;
<i>SNTG2</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SNW1</i>	chr14	14q24.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SNX10</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SNX13</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SNX16</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>SNX17</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SNX21</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SNX27</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SNX29</i>	chr16	16p13.13-p1	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 5.5;
<i>SNX3</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SNX31</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>SNX4</i>	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SNX6</i>	chr14	14q13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>SNX8</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SOBP</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SOC51</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 5;
<i>SOC55</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>SOC57</i>	chr17	14q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SOGA1</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SOHLH1</i>	chr9	9q34.3	2	0	1	1	Amplification	2	0	56957T: 3.5; 42484T: 4.5;
<i>SOS1</i>	chr2	2p22.1	1	0	0	1	Amplification	1	0	42500T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SOS2</i>	chr14	14q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SOSTDC1</i>	chr7	7p21.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SOX10</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SOX11</i>	chr2	2p25.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SOX12</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SOX14</i>	chr3	3q22.3	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42496T: 3.5;
<i>SOX17</i>	chr8	8q11.23	3	0	0	3	Amplification	3	0	42496T: 3.5; 42495T: 3.5; 42494T: 4;
<i>SOX18</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>SOX2</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42500T: 24; 42497T: 4; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4; 42498T: 3.5;
<i>SOX5</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>SOX7</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>SOX8</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>SP3</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 5;
<i>SP4</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SP8</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SP9</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SPAG1</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>SPAG11A</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>SPAG11B</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>SPAG4</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 3.5;
<i>SPAG8</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42501T: 3.5; 42473T: 3.5;
<i>SPAG9</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SPAM1</i>	chr7	7q31.32	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SPAST</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SPATA16</i>	chr3	3q26.31	9	1	3	5	Amplification	9	0	42482T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42500T: 9; 42484T: 4; 42474T: 3.5; 42495T: 4; 56957T: 4;
<i>SPATA2</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SPATA20</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SPATA21</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SPATA25</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SPATA6L</i>	chr9	9p24.2-p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SPATC1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>SPATS2</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SPCS2</i>	chr11	11q13.4	4	1	0	3	Amplification	4	0	56957T: 3.5; 42498T: 8; 42492T: 4; 42475T: 7.5;
<i>SPDYA</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SPEF1</i>	chr20	20p13	2	1	1	0	Amplification	2	0	42487T: 4.5; 42473T: 6;
<i>SPEF2</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42475T: 3.5; 42486T: 3.5; 42496T: 3.5; 42493T: 3.5;
<i>SPEN</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 8;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SPI1</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SPICE1</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>SPIDR</i>	chr8	8q11.21	3	0	1	2	Amplification	3	0	42484T: 3.5; 42494T: 3.5; 42496T: 3.5;
<i>SPINT1</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 6.5;
<i>SPINT2</i>	chr19	19q13.2	4	1	1	2	Amplification	4	0	42500T: 6.5; 42474T: 4; 56957T: 4; 42484T: 3.5;
<i>SPINT3</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SPINT4</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SPO11</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 7;
<i>SPOCD1</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SPPL3</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SPR</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SPRED2</i>	chr2	2p14	2	0	0	2	Amplification	2	0	42500T: 3.5; 56957T: 3.5;
<i>SPRED3</i>	chr19	19q13.2	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>SPRR1A</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>SPRR1B</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>SPRR2B</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>SPRR2G</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>SPRR3</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>SPRR4</i>	chr1	1q21.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>SPRYD3</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SPSB2</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>SPSB3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>SPSB4</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42496T: 4; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>SPTB</i>	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SPTBN1</i>	chr2	2p16.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>SPTBN2</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5.5;
<i>SPTBN4</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 3.5;
<i>SPTLC2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>SPTSSA</i>	chr14	14q13.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>SPTSSB</i>	chr3	3q26.1	8	1	2	5	Amplification	8	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42497T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4;
<i>SQLE</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>SRBD1</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>SRC</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SRCIN1</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SRCRB4D</i>	chr7	7q11.23	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SRD5A1</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>SRD5A2</i>	chr2	2p23.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SRGAP2B</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SRI</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42483T: 3.5; 42487T: 3.5;
<i>SRL</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42494T: 3.5; 42495T: 8.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SRMS</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>SRP54</i>	chr14	14q13.2	2	1	0	0	Amplification	2	0	42476T: 5; 42500T: 4.5;
<i>SRP68</i>	chr17	17q25.1	1	0	0	0	Amplification	1	0	42494T: 3.5;
<i>SRP9</i>	chr1	1q42.12	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SRPK2</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42497T: 4; 42501T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>SRPRB</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>SRRM1</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SRRM3</i>	chr7	7q11.23	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>SRRM4</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SRRT</i>	chr7	7q22.1	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>SRSF1</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>SRSF10</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SRSF4</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SRSF5</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SRSF6</i>	chr20	20q13.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SRSF7</i>	chr2	2p22.1	2	0	0	2	Amplification	2	0	42500T: 3.5; 42493T: 3.5;
<i>SRSF9</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SRXN1</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SSI8L1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>SSBP1</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SSC5D</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>SSF42</i>	chr2	2q31.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>SSH1</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>SSH3</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>SSMEM1</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SSNA1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>SSPN</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>SSR2</i>	chr1	1q22	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>SSR3</i>	chr3	3q25.31	8	1	2	5	Amplification	8	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 3.5; 56957T: 4; 42495T: 4; 42474T: 3.5; 42497T: 5.5;
<i>SST</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42497T: 4; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4;
<i>SSTR1</i>	chr14	14q21.1	2	1	0	1	Amplification	2	0	42500T: 6.5; 42476T: 4;
<i>SSTR3</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SSTR5</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>ST18</i>	chr8	8q11.23	5	0	2	3	Amplification	5	0	42484T: 5; 42495T: 3.5; 42494T: 3.5; 42496T: 3.5; 42482T: 3.5;
<i>ST3GAL1</i>	chr8	8q24.22	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>ST3GAL5</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>ST3GAL6</i>	chr3	3q12.1	1	1	0	0	Amplification	1	0	42476T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>ST6GAL1</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5; 42497T: 4;
<i>ST7</i>	chr7	7q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>ST8SIA1</i>	chr12	12p12.1	1	0	0	1	Amplification	1	0	42500T: 6;
<i>STAC2</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>STAG1</i>	chr3	20q13.31	4	0	1	3	Amplification	4	0	42496T: 3.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>STAG3L4</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>STAMBP</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>STAR</i>	chr8	Xq28	2	0	1	1	Amplification	2	0	42482T: 3.5; 42493T: 3.5;
<i>STARD10</i>	chr11	11q13.4	5	3	0	2	Amplification	5	0	42478T: 4.5; 42492T: 4; 56957T: 3.5; 42476T: 4; 42475T: 8.5;
<i>STARD13</i>	chr13	13q13.1-q13	1	0	0	1	Amplification	1	0	42497T: 6;
<i>STARD3</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42473T: 6; 42497T: 3.5;
<i>STARD3NL</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>STARD7</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>STAT1</i>	chr2	2q32.2	3	0	1	2	Amplification	3	0	42493T: 3.5; 42494T: 3.5; 42482T: 4;
<i>STAT4</i>	chr2	2q32.2-q32.3	3	0	1	2	Amplification	3	0	42493T: 3.5; 42494T: 3.5; 42482T: 4;
<i>STAU1</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
<i>STAU2</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>STEAP1</i>	chr7	7q21.13	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
<i>STEAP1B</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>STEAP2</i>	chr7	7q21.13	2	0	2	0	Amplification	2	0	42483T: 3.5; 42487T: 3.5;
<i>STEAP4</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
<i>STK17A</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>STK17B</i>	chr2	2q32.3	2	0	1	1	Amplification	2	0	42482T: 4; 42493T: 3.5;
<i>STK19</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>STK3</i>	chr8	13q32.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>STK31</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>STK35</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>STK38L</i>	chr12	12p11.23	1	0	0	1	Amplification	1	0	42500T: 6;
<i>STK39</i>	chr2	2q24.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>STK4</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>STMN2</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>STMN3</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>STOML1</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>STOML2</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>STON1</i>	chr2	2p16.3	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>STPG1</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>STRA13</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>STRA6</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>STR48</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>STRAP</i>	chr12	5q23.1	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>STRIP1</i>	chr1	1p13.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>STRIP2</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>STRN</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>STRN3</i>	chr14	14q12	3	0	0	3	Amplification	3	0	42494T: 3.5; 56957T: 4; 42500T: 4.5;
<i>STUB1</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>STX12</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>STX16</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>STX6</i>	chr1	1q25.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>STXBP4</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>STXBP5L</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>STYX</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SUB1</i>	chr5	5p13.3	4	1	1	2	Amplification	4	0	42493T: 3.5; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>SUCLG1</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SUCNR1</i>	chr3	3q25.1	9	1	2	6	Amplification	9	0	42484T: 3.5; 56957T: 4; 42474T: 3.5; 42496T: 4; 42497T: 5.5; 42500T: 3.5; 42492T: 3.5; 42493T: 3.5;
<i>SUDS3</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SULF1</i>	chr8	8q13.2-q13.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>SULF2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SULT6B1</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SUMF2</i>	chr7	7p11.2	2	0	1	1	Amplification	2	0	42483T: 4; 56957T: 5;
<i>SUN1</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SUN2</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SUN5</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 3.5;
<i>SUOX</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>SUPT4H1</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>SUPT5H</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>SUPT7L</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SUV420H1</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5;
<i>SUZ12</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SUZ12P</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SV2A</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SVOP</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4.5;
<i>SVOPL</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>SYBU</i>	chr8	8q23.2	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>SYCN</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
<i>SYCP2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SYF2</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SYMPK</i>	chr19	19q13.32	1	0	1	0	Amplification	1	0	42484T: 4;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>SYNDIG1L</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>SYNE2</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SYNE4</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>SYNGR1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SYNGR3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>SYNJ2BP</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SYNPO2L</i>	chr10	10q22.2	2	1	0	1	Amplification	2	0	42473T: 4.5; 42496T: 3.5;
<i>SYNRG</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SYPL1</i>	chr7	7q22.3	4	0	1	3	Amplification	4	0	42493T: 3.5; 42487T: 3.5; 42497T: 4; 42501T: 3.5;
<i>SYS1</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SYT10</i>	chr12	12p11.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>SYT11</i>	chr1	11q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SYT12</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5.5;
<i>SYT13</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>SYT16</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>SYT17</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>SYT2</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>SYTL1</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 5;
<i>SZRD1</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>SZT2</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TAB1</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TAC1</i>	chr7	7q21.3	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TACR1</i>	chr2	2p12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TADA2A</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TAF12</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TAF1B</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TAF2</i>	chr8	8q24.12	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>TAF4</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>TAGLN3</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TAOK3</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TARS</i>	chr5	5p13.3	4	1	1	2	Amplification	4	0	42493T: 3.5; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>TARS2</i>	chr1	1q21.2	2	1	0	1	Amplification	2	0	42473T: 5; 42493T: 3.5;
<i>TAS1R2</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TAS2R1</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42493T: 4; 42496T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>TAS2R16</i>	chr7	7q31.32 7q3	2	0	1	1	Amplification	2	0	42487T: 3.5; 42493T: 3.5;
<i>TAS2R3</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TAS2R38</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TAS2R39</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TAS2R4</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TAS2R40</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TAS2R41</i>	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>TAS2R5</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TAS2R60</i>	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TATDN1</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>TAX1BP1</i>	chr7	7p15.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TBC1D1</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 7;
<i>TBC1D10A</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TBC1D10C</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>TBC1D15</i>	chr12	12q21.1	1	0	0	1	Amplification	1	0	42501T: 6.5;
<i>TBC1D16</i>	chr17	17q25.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TBC1D20</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TBC1D21</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TBC1D22B</i>	chr6	6p21.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TBC1D23</i>	chr3	3q12.1-q12.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>TBC1D29</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TBC1D3</i>	chr17	17q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TBC1D31</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42495T: 3.5; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>TBC1D8</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TBCB</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>TBCCD1</i>	chr3	3q27.3	10	1	3	6	Amplification	10	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42484T: 4; 42498T: 3.5; 42497T: 4;
<i>TBL1XR1</i>	chr3	3q26.32	9	1	3	5	Amplification	9	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4; 42500T: 9.5;
<i>TBL3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TBPL2</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TBRG4</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TBX1</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>TBX10</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>TBX20</i>	chr7	7p14.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TBX3</i>	chr12	12q24.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TBX5</i>	chr12	12q24.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TBXAS1</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TCAP</i>	chr17	17q12	2	1	0	1	Amplification	2	0	42497T: 3.5; 42473T: 6;
<i>TCEA1</i>	chr8	8q11.23	3	0	0	3	Amplification	3	0	42494T: 4; 42495T: 3.5; 42496T: 3.5;
<i>TCEA2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>TCEA3</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TCEB1</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>TCEB3</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TCF15</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TCF23</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>TCF24</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42496T: 3.5; 42497T: 4.5; 42495T: 3.5;
<i>TCF7</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TCF7L1</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TCFL5</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>TCHH</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TCHHL1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TCHP</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>TCIRG1</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5;
<i>TCTA</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TCTEX1D2</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 5; 42492T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 6; 42484T: 4; 42498T: 3.5;
<i>TCTN1</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TCTN2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TDH</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>TDPI</i>	chr14	14q32.11	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TDRD10</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TDRD12</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	42500T: 4.5; 42473T: 3.5; 56957T: 4; 42484T: 3.5;
<i>TDRD15</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TDRKH</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TEC</i>	chr4	19q13.2	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TEFM</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TEKT4</i>	chr2	2q11.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TEKT5</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42495T: 5; 42473T: 5.5;
<i>TELO2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TEN1</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>TENCI</i>	chr12	12q13.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TERC</i>	chr3	3q26.2	9	1	3	5	Amplification	9	0	56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4; 42500T: 8; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>TERF1</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>TERT</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42473T: 3.5; 42496T: 4; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>TES</i>	chr7	7q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TESC</i>	chr12	12q24.22	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TESK1</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42501T: 3.5; 42473T: 3.5;
<i>TESPA1</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>TET3</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TEX101</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>TEX14</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>TEX15</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>TEX26</i>	chr13	13q12.3	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>TEX261</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TEX33</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TEX37</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TF</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42496T: 3.5; 42492T: 3.5; 42487T: 3.5;
<i>TFAP2C</i>	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 5;
<i>TFAP4</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42495T: 8.5; 42494T: 3.5;
<i>TFCP2</i>	chr12	12q13.12-q1	2	0	0	2	Amplification	2	0	42500T: 3.5; 42494T: 3.5;
<i>TFCP2L1</i>	chr2	2q14.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TFDP1</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>TFDP2</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42496T: 4;
<i>TFEC</i>	chr7	7q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TFF1</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TFF2</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TFF3</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TFG</i>	chr3	3q12.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>TFPI</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TFPI2</i>	chr7	7q21.3	2	0	2	0	Amplification	2	0	42483T: 4; 42487T: 3.5;
<i>TFRC</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42474T: 3.5; 42495T: 4; 56957T: 6; 42484T: 4; 42498T: 3.5; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>TG</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42495T: 3.5; 42484T: 3.5; 42496T: 3.5;
<i>TGFA</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TGFB1</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TGFB3</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>TGFBRAP1</i>	chr2	2q12.1-q12.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TGIF1</i>	chr18	18p11.31	3	1	0	2	Amplification	3	0	56957T: 8; 42493T: 3.5; 42481T: 9.5;
<i>TGIF2</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TGM2</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TGM3</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TGM6</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TGOLN2</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TGS1</i>	chr8	1q42.12	3	0	1	2	Amplification	3	0	42496T: 3.5; 42483T: 5; 42495T: 3.5;
<i>THADA</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
<i>THAP1</i>	chr8	8p11.21	1	0	1	0	Amplification	1	0	42483T: 4.5;
<i>THAP2</i>	chr12	12q21.1	1	0	0	1	Amplification	1	0	42501T: 6.5;
<i>THAP5</i>	chr7	7q31.1	3	0	1	2	Amplification	3	0	42501T: 3.5; 42497T: 4; 42487T: 3.5;
<i>THAP7</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42477T: 4;
<i>THAP8</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>THBS3</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>THEM4</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>THEM5</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>THEM6</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>THEMIS2</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>THNSL2</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>THOC1</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	42500T: 4.5; 56957T: 8; 42493T: 3.5;
<i>THPO</i>	chr3	3q27.1	11	1	3	7	Amplification	11	0	42497T: 4; 42498T: 3.5; 42484T: 4; 56957T: 5; 42474T: 3.5; 42494T: 3.5; 42495T: 4; 42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>THRA</i>	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>THSD7A</i>	chr7	7p21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>THTPA</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>THUMPD1</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>THUMPD2</i>	chr2	2p22.1 2p22	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>THYN1</i>	chr11	11q25	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>TIA1</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TICRR</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TIE1</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TIGD5</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
<i>TIGD7</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>TIGIT</i>	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TIMM50</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 6.5;
<i>TIMM9</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TIMMDC1</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TINAGL1</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TIPARP</i>	chr3	3q25.31	8	1	2	5	Amplification	8	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42497T: 5.5; 42484T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4;
<i>TLDC2</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TLN1</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42501T: 3.5; 42473T: 3.5;
<i>TLN2</i>	chr15	15q22.2	1	0	0	1	Amplification	1	0	42496T: 4;
<i>TLR1</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TLR10</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TLR6</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TLX2</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TM4SF1</i>	chr3	3q25.1	8	1	2	5	Amplification	8	0	42474T: 3.5; 56957T: 4; 42484T: 3.5; 42496T: 4; 42497T: 4.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>TM4SF18</i>	chr3	3q25.1	8	1	2	5	Amplification	8	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42496T: 4; 42497T: 4.5; 42474T: 3.5; 56957T: 4; 42484T: 3.5;
<i>TM4SF19</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 6; 42492T: 3.5; 42493T: 5; 42487T: 3.5; 42482T: 3.5;

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<i>TM4SF4</i>	chr3	3q25.1	8	1	2	5	Amplification	8	0	42484T: 3.5; 42474T: 3.5; 56957T: 4; 42497T: 4.5; 42496T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>TM7SF3</i>	chr12	12p11.23	1	0	0	1	Amplification	1	0	42500T: 6;
<i>TM9SF4</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42496T: 5; 42473T: 4.5;
<i>TMBIM4</i>	chr12	12q14.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>TMBIM6</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMC1</i>	chr9	9q21.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TMC2</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TMC5</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TMC7</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42473T: 4; 42495T: 4;
<i>TMCC1</i>	chr3	3q22.1	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>TMCO3</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>TMCO4</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TMED10</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>TMED2</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMED4</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 7.5;
<i>TMED8</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>TMEFF2</i>	chr2	2q32.3	2	0	1	1	Amplification	2	0	42482T: 4; 42493T: 3.5;
<i>TMEM100</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>TMEM106B</i>	chr7	7p21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TMEM106C</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMEM108</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42492T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>TMEM114</i>	chr16	16p13.2	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 5.5;
<i>TMEM116</i>	chr12	12q24.12-q2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMEM117</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMEM120B</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMEM123</i>	chr11	11q22.2	1	0	0	1	Amplification	1	0	56958T: 5.5;
<i>TMEM125</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TMEM127</i>	chr2	2q11.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>TMEM131</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TMEM132B</i>	chr12	12q24.31-q2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMEM134</i>	chr11	11q13.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 56957T: 5;
<i>TMEM139</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TMEM140</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TMEM141</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>TMEM145</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TMEM147</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>TMEM14E</i>	chr3	3q25.2	9	1	2	6	Amplification	9	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42496T: 4; 42497T: 5.5; 42500T: 3.5; 42484T: 3.5; 56957T: 4; 42474T: 3.5;
<i>TMEM150A</i>	chr2	2p11.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42482T: 3.5;

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<i>TMEM156</i>	chr4	4p14	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TMEM159</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TMEM161B</i>	chr5	5q14.3	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>TMEM168</i>	chr7	7q31.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42501T: 3.5;
<i>TMEM17</i>	chr2	2p15	3	0	1	2	Amplification	3	0	42500T: 3.5; 56957T: 3.5; 42484T: 3.5;
<i>TMEM178A</i>	chr2	2p22.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMEM178B</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TMEM18</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMEM182</i>	chr2	2q12.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TMEM183A</i>	chr1	1q32.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TMEM184A</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>TMEM184B</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TMEM186</i>	chr16	16p13.2	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>TMEM189</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>TMEM19</i>	chr12	12q21.1	1	0	0	1	Amplification	1	0	42501T: 6.5;
<i>TMEM190</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>TMEM191A</i>	chr22	22q11.21	2	1	0	1	Amplification	2	0	42477T: 4; 42497T: 13.5;
<i>TMEM194B</i>	chr2	2q32.2	3	0	1	2	Amplification	3	0	42494T: 3.5; 42493T: 3.5; 42482T: 4;
<i>TMEM196</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TMEM198B</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>TMEM200B</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TMEM203</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>TMEM204</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TMEM207</i>	chr3	3q28	9	1	3	5	Amplification	9	0	56957T: 4.5; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>TMEM209</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TMEM210</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>TMEM212</i>	chr3	3q26.31	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42500T: 9; 56957T: 4; 42495T: 4; 42474T: 3.5; 42484T: 4;
<i>TMEM213</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TMEM214</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMEM222</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 5;
<i>TMEM229A</i>	chr7	7q31.32	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TMEM229B</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TMEM230</i>	chr20	20p13-p12.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TMEM233</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMEM234</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TMEM239</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TMEM241</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 4;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>TMEM243</i>	chr7	7q21.12	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
<i>TMEM245</i>	chr9	9q31.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TMEM247</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>TMEM248</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>TMEM249</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42483T: 3.5; 42496T: 4; 42495T: 4.5; 56957T: 3.5;
<i>TMEM255B</i>	chr13	13q34	1	0	0	1	Amplification	1	0	56957T: 3.5;
<i>TMEM259</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TMEM260</i>	chr14	14q22.3	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TMEM30B</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TMEM30C</i>	chr3	3q12.1	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>TMEM39A</i>	chr3	3q13.33	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TMEM39B</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TMEM41A</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42495T: 4; 42474T: 3.5; 56957T: 4.5; 42484T: 4; 42498T: 3.5; 42497T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>TMEM44</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4.5; 42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5;
<i>TMEM45A</i>	chr3	3q12.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>TMEM50A</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TMEM55A</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>TMEM57</i>	chr1	1p36.11 1p36.11	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TMEM60</i>	chr7	7q11.23	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TMEM63A</i>	chr1	1q42.12	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TMEM63C</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>TMEM64</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>TMEM65</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5; 42484T: 3.5;
<i>TMEM66</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>TMEM67</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>TMEM68</i>	chr8	8q12.1	3	0	1	2	Amplification	3	0	42495T: 3.5; 42483T: 5; 42496T: 3.5;
<i>TMEM70</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>TMEM71</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5;
<i>TMEM74</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>TMEM74B</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TMEM75</i>	chr8	8q24.21	5	1	1	3	Amplification	5	0	42496T: 3.5; 42475T: 3.5; 42484T: 3.5; 42495T: 3.5; 42493T: 10;
<i>TMEM79</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TMEM8A</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TMEM8B</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42501T: 3.5; 42473T: 3.5;
<i>TMEM91</i>	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TMOD4</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>TMPRSS12</i>	chr12	12q13.12	2	0	0	2	Amplification	2	0	42494T: 3.5; 42500T: 3.5;
<i>TMPRSS2</i>	chr21	21q22.3	1	1	1	0	Amplification	1	0	42473T: 3.5;
<i>TMPRSS3</i>	chr21	21q22.3	1	1	1	0	Amplification	1	0	42473T: 3.5;
<i>TMPRSS6</i>	chr22	22q12.3	1	1	1	0	Amplification	1	0	42473T: 3.5;
<i>TMPRSS7</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TMSB10</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TMTC1</i>	chr12	12p11.22	1	0	0	1	Amplification	1	0	42500T: 6;
<i>TMX1</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TMX2</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>TNC</i>	chr9	3p21.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TNF</i>	chr6	6p21.33	1	1	1	0	Amplification	1	0	42473T: 3.5;
<i>TNFAIP3</i>	chr6	6q23.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TNFAIP8L2</i>	chr1	1q21.3	1	1	1	0	Amplification	1	0	42473T: 4.5;
<i>TNFRSF11B</i>	chr8	8q24.12	3	1	1	2	Amplification	3	0	42496T: 3.5; 42475T: 3.5; 42495T: 3.5;
<i>TNFRSF17</i>	chr16	16p13.13	2	1	1	1	Amplification	2	0	42495T: 4; 42473T: 5.5;
<i>TNFRSF6B</i>	chr20	20q13.33	1	1	1	0	Amplification	1	0	42473T: 6;
<i>TNFSF10</i>	chr3	3q26.31	9	1	3	5	Amplification	9	0	42484T: 4; 56957T: 4; 42474T: 3.5; 42495T: 4; 42500T: 9; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5;
<i>TNFSF15</i>	chr9	9q32	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TNFSF8</i>	chr9	9q32-q33.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TNIK</i>	chr3	3q26.2-q26.3	9	1	3	5	Amplification	9	0	42500T: 8; 42474T: 3.5; 42495T: 4; 56957T: 4; 42484T: 4; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
<i>TNK2</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 6;
<i>TNKS</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>TNNC2</i>	chr20	20q13.12	1	1	1	0	Amplification	1	0	42473T: 5;
<i>TNP2</i>	chr16	16p13.13	2	1	1	1	Amplification	2	0	42495T: 5; 42473T: 5.5;
<i>TNPO3</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TNRC18</i>	chr7	7p22.1	2	1	1	1	Amplification	2	0	42497T: 8.5; 42473T: 4.5;
<i>TNRC6A</i>	chr16	16p12.1	1	1	1	0	Amplification	1	0	42473T: 4;
<i>TNRC6B</i>	chr22	22q13.1	1	1	1	0	Amplification	1	0	42473T: 3.5;
<i>TNXB</i>	chr6	6p21.33-p21	1	1	1	0	Amplification	1	0	42473T: 3.5;
<i>TOB1</i>	chr17	17q21.33	1	1	1	0	Amplification	1	0	42473T: 4.5;
<i>TOLLIP</i>	chr11	11p15.5	1	1	1	0	Amplification	1	0	42473T: 4;
<i>TOM1</i>	chr22	22q12.3	1	1	1	0	Amplification	1	0	42473T: 3.5;
<i>TOM1L1</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>TOMM20</i>	chr1	1q42.3	1	1	1	0	Amplification	1	0	42473T: 6.5;
<i>TOMM20L</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;

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<i>TOMM22</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TOMM34</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>TOMM40</i>	chr19	19q13.32	2	1	0	0	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>TOMM7</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TOMM70A</i>	chr3	3q12.2	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>TONSL</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42483T: 3.5; 42496T: 4; 42495T: 4.5; 56957T: 3.5;
<i>TOP1</i>	chr20	20q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TOP1MT</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>TOPBP1</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42492T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>TOR4A</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>TOX</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>TOX2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TOX4</i>	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 5;
<i>TP53I11</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TP53I3</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TP53INP1</i>	chr8	8q22.1	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42473T: 4.5;
<i>TP53INP2</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>TP53RK</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>TP53TG5</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>TP63</i>	chr3	3q28	10	1	3	6	Amplification	10	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 56957T: 4.5; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4; 42497T: 5;
<i>TPCN1</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TPCN2</i>	chr11	11q13.3	7	1	1	5	Amplification	7	0	42501T: 3.5; 42483T: 14.5; 42497T: 4.5; 42476T: 29.5; 56957T: 5; 42492T: 4; 42498T: 9.5;
<i>TPD52</i>	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>TPD52L2</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>TPD52L3</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TPH2</i>	chr12	12q21.1	1	0	0	1	Amplification	1	0	42501T: 6.5;
<i>TPI1</i>	chr12	12p13.31	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>TPK1</i>	chr7	7q35	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TPM2</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>TPM3</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TPO</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TPPP</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42475T: 3.5; 42473T: 3.5; 42496T: 4; 42486T: 3.5;
<i>TPRA1</i>	chr3	3q21.3	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>TPRG1</i>	chr3	3q28	10	1	3	6	Amplification	10	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42497T: 5; 42492T: 3.5; 42487T: 3.5;
<i>TPRKB</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>TPRN</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>TPSAB1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TPSB2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TPSD1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TPSG1</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TPST1</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>TPX2</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>TRA2A</i>	chr7	7p15.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TRA2B</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42497T: 4; 56957T: 4.5; 42474T: 3.5; 42495T: 4;
<i>TRABD2A</i>	chr2	2p11.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TRAF2</i>	chr9	2q24.2	2	1	0	1	Amplification	2	0	42473T: 5; 56957T: 3.5;
<i>TRAF3IP1</i>	chr2	2q37.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TRAF3IP2</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TRAF7</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TRAFD1</i>	chr12	12q24.13	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TRAM1</i>	chr8	8q13.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>TRAP1</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>TRAPPC12</i>	chr2	2p25.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42500T: 3.5;
<i>TRAPPC4</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TRAPPC6A</i>	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
<i>TRAPPC6B</i>	chr14	14q21.1	2	1	0	1	Amplification	2	0	42500T: 6.5; 42473T: 3.5;
<i>TRAPPC8</i>	chr18	18q12.1	1	0	0	1	Amplification	1	0	42501T: 5.5;
<i>TRAPPC9</i>	chr8	8q24.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>TRDMT1</i>	chr10	10p13	1	0	0	1	Amplification	1	0	56958T: 4;
<i>TRH</i>	chr3	3q22.1	2	0	1	1	Amplification	2	0	42496T: 3.5; 42487T: 3.5;
<i>TRHDE</i>	chr12	12q21.1	1	0	0	1	Amplification	1	0	42501T: 4;
<i>TRHR</i>	chr8	8q23.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>TRIAP1</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TRIB1</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5; 42484T: 3.5;
<i>TRIB2</i>	chr2	2p24.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TRIB3</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TRIL</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TRIM24</i>	chr7	7q33-q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TRIM25</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>TRIM41</i>	chr5	5q35.3	1	0	0	1	Amplification	1	0	42495T: 3.5;
<i>TRIM42</i>	chr3	3q23	4	0	1	3	Amplification	4	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42496T: 4;
<i>TRIM43</i>	chr2	2q11.1	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 4;
<i>TRIM46</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>TRIM47</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>TRIM48</i>	chr11	11q11	1	0	0	1	Amplification	1	0	42496T: 8.5;
<i>TRIM49B</i>	chr11	11p11.12	1	0	0	1	Amplification	1	0	56957T: 8;
<i>TRIM51</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 8.5;
<i>TRIM52</i>	chr5	5q35.3	1	0	0	1	Amplification	1	0	42495T: 3.5;
<i>TRIM54</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TRIM55</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42497T: 4; 42496T: 3.5; 42495T: 3.5;
<i>TRIM59</i>	chr3	3q25.33	8	1	2	5	Amplification	8	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 56957T: 4; 42474T: 3.5; 42495T: 4; 42484T: 4; 42497T: 3.5;
<i>TRIM64C</i>	chr11	11p11.12	1	0	0	1	Amplification	1	0	56957T: 8;
<i>TRIM65</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>TRIM7</i>	chr5	5q35.3	1	0	0	1	Amplification	1	0	42495T: 3.5;
<i>TRIM9</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TRIO</i>	chr5	5p15.2	5	1	2	2	Amplification	5	0	42493T: 4; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5;
<i>TRIOBP</i>	chr22	22q13.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TRIP13</i>	chr5	5p15.33	5	2	1	2	Amplification	5	0	42486T: 3.5; 42496T: 4; 42473T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>TRIP6</i>	chr7	7q22.1	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>TRIQK</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>TRMT10C</i>	chr3	3q12.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>TRMT5</i>	chr14	14q23.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TRMT61B</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TRNAU1AP</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TROAP</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TRPA1</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>TRPC1</i>	chr3	3q23	5	0	1	4	Amplification	5	0	42496T: 4; 42492T: 3.5; 56957T: 4; 42493T: 3.5; 42487T: 3.5;
<i>TRPC4AP</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>TRPC6</i>	chr11	11q22.1	1	0	0	1	Amplification	1	0	56958T: 5.5;
<i>TRPS1</i>	chr8	8q23.3	3	1	0	2	Amplification	3	0	42495T: 3.5; 42475T: 3.5; 42496T: 3.5;
<i>TRPV4</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>TRPV5</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TRPV6</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TSACC</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TSC2</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TSC22D2</i>	chr3	3q25.1	9	2	2	5	Amplification	9	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42484T: 3.5; 42474T: 3.5; 56957T: 4; 42473T: 4; 42496T: 4; 42497T: 4.5;
<i>TSEN54</i>	chr17	17q25.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TSGA10</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TSGA13</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>TSHZ2</i>	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>TSHZ3</i>	chr19	19q12	5	1	1	3	Amplification	5	0	42500T: 4.5; 42473T: 25; 56957T: 4; 42494T: 4; 42484T: 6;
<i>TSKU</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42496T: 3.5; 42497T: 3.5;
<i>TSNARE1</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
<i>TSPAN11</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 8;
<i>TSPAN12</i>	chr7	7q31.31	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TSPAN13</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 7.5;
<i>TSPAN18</i>	chr11	11p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TSPAN33</i>	chr7	7q32.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TSPAN8</i>	chr12	12q21.1	1	0	0	1	Amplification	1	0	42501T: 5.5;
<i>TSPY26P</i>	chr20	20q11.21	2	1	0	1	Amplification	2	0	42473T: 4.5; 42496T: 5;
<i>TSPYL6</i>	chr2	2p16.2	2	0	1	1	Amplification	2	0	42500T: 3.5; 42484T: 4.5;
<i>TSR3</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>TSSC1</i>	chr2	2p25.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TSSK2</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 21;
<i>TSSK3</i>	chr1	1p35.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TST</i>	chr22	1q23.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TSTA3</i>	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
<i>TTC14</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4; 42497T: 4; 42500T: 14; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>TTC18</i>	chr10	10q22.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TTC23L</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42496T: 3.5; 42486T: 3.5; 42475T: 3.5;
<i>TTC24</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 7;
<i>TTC26</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>TTC27</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TTC30A</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 4.5;
<i>TTC30B</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 4.5;
<i>TTC31</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TTC32</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TTC33</i>	chr5	5p13.1	6	1	3	2	Amplification	6	0	42493T: 3.5; 42484T: 3.5; 42475T: 3.5; 42496T: 3.5; 42486T: 3.5; 42483T: 3.5;
<i>TTC39C</i>	chr18	18q11.2	1	1	0	0	Amplification	1	0	42481T: 4;
<i>TTC6</i>	chr14	14q21.1	2	1	0	1	Amplification	2	0	42500T: 6.5; 42476T: 4;
<i>TTC7A</i>	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 4.5; 42500T: 3.5;
<i>TTC9</i>	chr14	14q24.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TTC9B</i>	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
<i>TTI1</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TTI2</i>	chr8	8p12	2	0	1	1	Amplification	2	0	42497T: 4.5; 42482T: 3.5;
<i>TLLL13</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>TLL5</i>	chr14	1p36.33	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>TLL9</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>TTN</i>	chr2	2q31.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TPA</i>	chr8	8q12.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>TPAL</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TTYH3</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>TUBA1A</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TUBA1B</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TUBA1C</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TUBA8</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 24.5;
<i>TUBB1</i>	chr20	6p21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TUBB4B</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>TUBB6</i>	chr18	18p11.21	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TUBBP1</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>TUBE1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TUFT1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>TVP23A</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 5;
<i>TWF1</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>TWIST1</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TWISTNB</i>	chr7	7p21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TXLNA</i>	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TXN2</i>	chr22	22q12.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TXNDC11</i>	chr16	16p13.13	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 12.5;
<i>TXNDC15</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>TXNDC16</i>	chr14	14q22.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>TXNDC9</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>TXNIP</i>	chr1	1q21.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>TXNRD2</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>TXNRD3</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TXNRD3NB</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>TYMS</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	42493T: 3.5; 56957T: 8; 42500T: 4.5;
<i>TYROBP</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>TYW1</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>U2AF1L4</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>U2AF2</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>U2SURP</i>	chr3	3q23	5	0	1	4	Amplification	5	0	42496T: 4; 42492T: 3.5; 42493T: 3.5; 56957T: 4; 42487T: 3.5;
<i>UAP1L1</i>	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
<i>UBA2</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 42484T: 3.5; 56957T: 4;
<i>UBA5</i>	chr3	3q22.1	3	0	1	2	Amplification	3	0	42492T: 3.5; 42487T: 3.5; 42496T: 3.5;
<i>UBAC1</i>	chr9	9q34.3	1	0	0	1	Amplification	1	0	56957T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>UBALD1</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42494T: 3.5; 42495T: 12;
<i>UBAP2L</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>UBASH3A</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>UBC</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>UBE2B</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>UBE2C</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>UBE2D4</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42497T: 7.5;
<i>UBE2E3</i>	chr2	2q31.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>UBE2H</i>	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>UBE2I</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>UBE2L3</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>UBE2L6</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>UBE2Q1</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>UBE2QL1</i>	chr5	5p15.31	4	1	1	2	Amplification	4	0	42493T: 4; 42475T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>UBE2R2</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42496T: 4;
<i>UBE2S</i>	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>UBE2V1</i>	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 6.5;
<i>UBE2V2</i>	chr8	8q11.21	5	0	2	3	Amplification	5	0	42482T: 3.5; 42496T: 3.5; 42484T: 3.5; 42495T: 3.5; 42494T: 3.5;
<i>UBE2W</i>	chr8	8q21.11	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>UBE3B</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42500T: 3.5; 42473T: 4.5;
<i>UBFD1</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>UBL7</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>UBN1</i>	chr16	16p13.3	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 12;
<i>UBN2</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>UBOX5</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>UBQLN4</i>	chr1	1q22	2	1	0	1	Amplification	2	0	42473T: 4.5; 42493T: 4;
<i>UBR4</i>	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 4;
<i>UBR5</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>UBXN10</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>UBXN2A</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>UBXN2B</i>	chr8	8q12.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>UBXN7</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42498T: 3.5; 42484T: 4; 56957T: 6; 42474T: 3.5; 42495T: 4; 42482T: 3.5; 42492T: 3.5; 42487T: 3.5; 42493T: 5;
<i>UBXN8</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>UCK1</i>	chr9	9q34.13	1	0	1	0	Amplification	1	0	42484T: 3.5;
<i>UCKL1</i>	chr20	20q13.33	2	1	1	0	Amplification	2	0	42473T: 6; 42483T: 3.5;
<i>UCN</i>	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>UCP2</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42478T: 6; 42492T: 4; 42498T: 8; 56957T: 3.5; 42476T: 4; 42475T: 7.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>UCP3</i>	chr11	11q13.4	6	3	0	3	Amplification	6	0	42476T: 4; 42475T: 7.5; 42478T: 6; 42498T: 8; 42492T: 4; 56957T: 3.5;
<i>UFDIL</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 17;
<i>UFSP1</i>	chr7	7q22.1	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>UGP2</i>	chr2	2p15	2	0	0	2	Amplification	2	0	56957T: 3.5; 42500T: 3.5;
<i>UGT3A1</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42496T: 3.5; 42486T: 3.5; 42475T: 3.5; 42493T: 3.5;
<i>UGT3A2</i>	chr5	5p13.2	4	1	1	2	Amplification	4	0	42493T: 3.5; 42475T: 3.5; 42486T: 3.5; 42496T: 3.5;
<i>UHRF2</i>	chr9	9p24.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ULK3</i>	chr15	15q24.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>UMOD</i>	chr16	16p12.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>UMODL1</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>UMPS</i>	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>UNC119B</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>UNC13B</i>	chr9	9p13.3	2	1	0	1	Amplification	2	0	42473T: 3.5; 42501T: 3.5;
<i>UNC13D</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>UNC50</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>UNC5D</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>UNC93B1</i>	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5;
<i>UNCX</i>	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
<i>UNG</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>UNK</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>UNKL</i>	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
<i>UPF3A</i>	chr13	13q34	2	0	0	2	Amplification	2	0	56957T: 3.5; 42496T: 4.5;
<i>UPK1A</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
<i>UPK1B</i>	chr3	3q13.32	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>UPK2</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>UPK3B</i>	chr7	7q11.23	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>UPK3BL</i>	chr7	7q22.1	3	0	1	2	Amplification	3	0	42493T: 3.5; 42487T: 3.5; 42501T: 3.5;
<i>UPP2</i>	chr2	2q24.1	1	1	0	0	Amplification	1	0	42473T: 4;
<i>UQCC</i>	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42493T: 3.5;
<i>UQCR10</i>	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>UQCRB</i>	chr8	8q22.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>UQCRC2</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>UQCRFS1</i>	chr19	19q12	5	1	1	3	Amplification	5	0	56957T: 4; 42494T: 4; 42484T: 6; 42500T: 4.5; 42473T: 25;
<i>URGCP</i>	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>URI1</i>	chr19	19q12	5	1	1	3	Amplification	5	0	42473T: 25; 42500T: 4.5; 42484T: 6; 42494T: 4; 56957T: 4;
<i>UROCI</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>USF2</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>USP13</i>	chr3	3q26.33	11	1	3	7	Amplification	11	0	56957T: 4; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42500T: 14; 42497T: 4; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
<i>USP14</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	42493T: 3.5; 56957T: 8; 42500T: 4.5;
<i>USP18</i>	chr22	22q11.21	1	0	0	1	Amplification	1	0	42497T: 24.5;
<i>USP30</i>	chr12	12q24.11	2	1	0	1	Amplification	2	0	42473T: 4.5; 42500T: 3.5;
<i>USP31</i>	chr16	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>USP34</i>	chr2	2p15	3	0	1	2	Amplification	3	0	56957T: 3.5; 42484T: 4.5; 42500T: 3.5;
<i>USP39</i>	chr2	2p11.2	2	0	1	1	Amplification	2	0	42482T: 3.5; 42500T: 3.5;
<i>USP4</i>	chr3	3p21.31	1	1	0	0	Amplification	1	0	42473T: 4;
<i>USP40</i>	chr2	2q37.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>USP41</i>	chr22	22q11.21	2	1	0	1	Amplification	2	0	42477T: 4; 42497T: 3.5;
<i>USP42</i>	chr7	7p22.1	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>USP48</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>USP54</i>	chr10	10q22.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>USP7</i>	chr16	16p13.2	2	1	0	1	Amplification	2	0	42473T: 5.5; 42495T: 4;
<i>USPL1</i>	chr13	13q12.3	1	0	0	1	Amplification	1	0	42497T: 3.5;
<i>UTP23</i>	chr8	8q24.11	3	1	0	2	Amplification	3	0	42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>UTP6</i>	chr17	17q11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>UTS2B</i>	chr3	3q28	9	1	3	5	Amplification	9	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5;
<i>UVRAG</i>	chr11	11q13.5	3	0	0	3	Amplification	3	0	42497T: 3.5; 42498T: 6.5; 42492T: 4;
<i>VAMP5</i>	chr2	2p11.2	2	0	1	1	Amplification	2	0	42482T: 3.5; 42500T: 3.5;
<i>VAMP8</i>	chr2	2p11.2	2	0	1	1	Amplification	2	0	42482T: 3.5; 42500T: 3.5;
<i>VAPB</i>	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>VARS</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>VASH1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
<i>VASN</i>	chr16	16p13.3	3	1	0	2	Amplification	3	0	42473T: 5.5; 42495T: 8.5; 42494T: 3.5;
<i>VASP</i>	chr19	19q13.32	2	1	1	0	Amplification	2	0	42473T: 3.5; 42484T: 4;
<i>VAX2</i>	chr2	2p13.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>VCP</i>	chr9	9p13.3	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>VCPIP1</i>	chr8	8q13.1	3	0	0	3	Amplification	3	0	42495T: 3.5; 42497T: 4.5; 42496T: 3.5;
<i>VDAC1</i>	chr5	5q31.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>VDR</i>	chr12	12q13.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>VEPH1</i>	chr3	3q25.31-q25	8	1	2	5	Amplification	8	0	42484T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 4; 42497T: 5.5; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5;
<i>VEZF1</i>	chr17	17q22	1	0	0	1	Amplification	1	0	42497T: 4;
<i>VGFB</i>	chr7	7q22.1	2	0	0	2	Amplification	2	0	42493T: 3.5; 42501T: 3.5;
<i>VHLL</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>VILL</i>	chr3	3p22.2	1	1	0	0	Amplification	1	0	42473T: 4.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>VIM</i>	chr10	10p13	1	0	0	1	Amplification	1	0	56958T: 4;
<i>VIPAS39</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>VIT</i>	chr2	2p22.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>VKORC1L1</i>	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
<i>VLDLR</i>	chr9	9p24.2	2	0	1	1	Amplification/Deletion	1	1	42486T: 0.5; 42496T: 3.5;
<i>VOPPI</i>	chr7	7p11.2	3	0	1	2	Amplification	3	0	56957T: 5; 42483T: 4; 42497T: 6.5;
<i>VPS11</i>	chr11	11q23.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>VPS13B</i>	chr8	8q22.2	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
<i>VPS16</i>	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>VPS18</i>	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 6.5;
<i>VPS26B</i>	chr11	11q25	1	1	0	0	Deletion	0	1	42476T: 0.5;
<i>VPS28</i>	chr8	8q24.3	4	0	1	3	Amplification	4	0	42483T: 3.5; 42496T: 4; 42495T: 4.5; 56957T: 3.5;
<i>VPS29</i>	chr12	12q24.11	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>VPS33A</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>VPS37B</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>VPS41</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>VPS45</i>	chr1	1q21.2	1	1	0	0	Amplification	1	0	42473T: 5;
<i>VPS54</i>	chr2	2p15-p14	2	0	0	2	Amplification	2	0	56957T: 3.5; 42500T: 3.5;
<i>VPS72</i>	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>VPS8</i>	chr3	3q27.2	10	1	3	6	Amplification	10	0	42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42497T: 4; 42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5;
<i>VRK2</i>	chr2	2p16.1	3	0	1	2	Amplification	3	0	42500T: 3.5; 56957T: 3.5; 42484T: 4.5;
<i>VRTN</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>VSIG10</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>VSNL1</i>	chr2	2p24.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>VSTM2A</i>	chr7	7p11.2	2	0	0	2	Amplification	2	0	56957T: 5; 42497T: 21.5;
<i>VSTM2B</i>	chr19	19q12	5	1	1	3	Amplification	5	0	42484T: 6; 56957T: 4; 42494T: 4; 42473T: 25; 42500T: 4.5;
<i>VSTM2L</i>	chr20	20q11.23	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>VSX2</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>VTI1B</i>	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
<i>VWA3A</i>	chr16	16p12.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>VWA3B</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>VWA5B1</i>	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
<i>VWA5B2</i>	chr3	3q27.1	12	2	3	7	Amplification	12	0	42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42482T: 3.5; 42474T: 3.5; 42495T: 4; 42494T: 3.5; 56957T: 5; 42484T: 4; 42498T: 3.5; 42497T: 4; 42473T: 3.5;
<i>VWA7</i>	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>VWC2</i>	chr7	7p12.2	1	0	0	1	Amplification	1	0	42497T: 20.5;
<i>VWDE</i>	chr7	7p21.3	1	1	0	0	Amplification	1	0	42473T: 3.5;

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Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>WASF1</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>WASF2</i>	chr1	1p36.11	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WASL</i>	chr7	7q31.32	2	0	1	1	Amplification	2	0	42493T: 3.5; 42487T: 3.5;
<i>WBP1</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WBP11</i>	chr12	12p12.3	1	0	0	1	Amplification	1	0	42500T: 4.5;
<i>WBP2</i>	chr17	17q25.1	1	0	0	1	Amplification	1	0	42494T: 3.5;
<i>WBP7</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
<i>WDHD1</i>	chr14	14q22.2-q22	1	0	0	1	Amplification	1	0	42494T: 4;
<i>WDPCP</i>	chr2	2p15	3	0	1	2	Amplification	3	0	42500T: 3.5; 42484T: 3.5; 56957T: 3.5;
<i>WDR18</i>	chr19	19p13.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>WDR24</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
<i>WDR35</i>	chr2	2p24.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WDR4</i>	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>WDR43</i>	chr2	2p23.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WDR49</i>	chr3	3q26.1	9	1	3	5	Amplification	9	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42482T: 3.5; 42484T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5; 42500T: 8;
<i>WDR52</i>	chr3	3q13.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>WDR53</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42493T: 5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 42495T: 4; 42474T: 3.5; 56957T: 6; 42484T: 4; 42498T: 3.5;
<i>WDR54</i>	chr2	2p13.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WDR5B</i>	chr3	3q21.1	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>WDR61</i>	chr15	15q25.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>WDR62</i>	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
<i>WDR65</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 4.5;
<i>WDR66</i>	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WDR70</i>	chr5	5p13.2	5	1	2	2	Amplification	5	0	42493T: 3.5; 42486T: 3.5; 42483T: 3.5; 42496T: 3.5; 42475T: 3.5;
<i>WDR73</i>	chr15	15q25.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>WDR75</i>	chr2	2q32.2	2	0	1	1	Amplification	2	0	42493T: 3.5; 42482T: 4;
<i>WDR87</i>	chr19	19q13.13	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
<i>WDR88</i>	chr19	19q13.11	4	1	1	2	Amplification	4	0	42484T: 3.5; 56957T: 4; 42473T: 7; 42500T: 4.5;
<i>WDR89</i>	chr14	14q23.2	1	0	0	1	Amplification	1	0	42494T: 4;
<i>WDR90</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42493T: 3.5; 42483T: 3.5;
<i>WDR91</i>	chr7	7q33	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>WDR92</i>	chr2	2p14	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WDR93</i>	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>WDYHV1</i>	chr8	8q24.13	4	1	1	2	Amplification	4	0	42475T: 3.5; 42496T: 3.5; 42495T: 3.5; 42484T: 3.5;
<i>WEE2</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>WFDC10A</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>WFDC10B</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFDC11</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFDC12</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFDC13</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFDC2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFDC3</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFDC5</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFDC6</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFDC8</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFDC9</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WFIKK1</i>	chr16	16p13.3	2	0	1	1	Amplification	2	0	42483T: 3.5; 42493T: 3.5;
<i>WFIKK2</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 4.5;
<i>WHSC1L1</i>	chr8	8p11.23	2	0	1	1	Amplification	2	0	42482T: 3.5; 42493T: 3.5;
<i>WIBG</i>	chr12	12q13.2	1	0	0	1	Amplification	1	0	42494T: 5;
<i>WIPF1</i>	chr2	2q31.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>WIPF2</i>	chr17	17q21.2	1	0	0	1	Amplification	1	0	42497T: 4;
<i>WIPF3</i>	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
<i>WIP1</i>	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 8.5;
<i>WISP1</i>	chr8	8q24.22	3	0	1	2	Amplification	3	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5;
<i>WISP2</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>WISP3</i>	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>WNK1</i>	chr12	12p13.33	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WNT1</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WNT10B</i>	chr12	12q13.12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WNT11</i>	chr11	11q13.5	2	0	0	2	Amplification	2	0	42497T: 3.5; 42492T: 4;
<i>WNT16</i>	chr7	7q31.31	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>WNT2</i>	chr7	7q31.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
<i>WNT4</i>	chr1	1p36.12	2	1	0	1	Amplification	2	0	42493T: 3.5; 42473T: 4;
<i>WRB</i>	chr21	21q22.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>WRN</i>	chr8	8p12	1	0	1	0	Amplification	1	0	42482T: 3.5;
<i>WSB2</i>	chr12	12q24.23	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>WTIP</i>	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 56957T: 4; 42484T: 3.5;
<i>WWP1</i>	chr8	8q21.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>WWTR1</i>	chr3	3q25.1	8	1	2	5	Amplification	8	0	56957T: 4; 42474T: 3.5; 42484T: 3.5; 42497T: 4.5; 42496T: 4; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
<i>XDH</i>	chr2	2p23.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>XKR4</i>	chr8	8q12.1	3	0	1	2	Amplification	3	0	42495T: 3.5; 42483T: 5; 42496T: 3.5;
<i>XKR6</i>	chr8	8p23.1	1	0	1	0	Amplification	1	0	42486T: 3.5;
<i>XKR7</i>	chr20	20q11.21	1	0	0	1	Amplification	1	0	42496T: 5;
<i>XKR8</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>XKR9</i>	chr8	8q13.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>XPO1</i>	chr2	2p15	3	0	1	2	Amplification	3	0	42500T: 3.5; 56957T: 3.5; 42484T: 4.5;
<i>XPR1</i>	chr1	1q25.3	1	0	0	1	Amplification	1	0	42493T: 4;
<i>XRCC1</i>	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
<i>XRN1</i>	chr3	3q23	5	0	1	4	Amplification	5	0	42496T: 4; 42492T: 3.5; 42487T: 3.5; 56957T: 4; 42493T: 3.5;
<i>XRN2</i>	chr20	20p11.22	1	0	1	0	Amplification	1	0	42483T: 4;
<i>XRRAI</i>	chr11	11q13.4	4	1	0	3	Amplification	4	0	42475T: 7.5; 56957T: 3.5; 42498T: 8; 42492T: 4;
<i>XXYLT1</i>	chr3	3q29	9	1	3	5	Amplification	9	0	42493T: 3.5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 4.5; 42484T: 4; 42498T: 3.5;
<i>XYLT1</i>	chr16	16p12.3	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 4;
<i>XYLT2</i>	chr17	17q21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>YAE1D1</i>	chr7	7p14.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>YAF2</i>	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>YAPI</i>	chr11	11q22.1	1	0	0	1	Amplification	1	0	56958T: 5.5;
<i>YARS2</i>	chr12	12p11.21	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>YBX1</i>	chr1	1p34.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>YDJC</i>	chr22	22q11.21	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>YEATS2</i>	chr3	3q27.1	10	1	3	6	Amplification	10	0	42492T: 3.5; 42487T: 3.5; 42493T: 3.5; 42482T: 3.5; 42484T: 4; 42498T: 3.5; 42474T: 3.5; 42495T: 4; 56957T: 5; 42497T: 4;
<i>YEATS4</i>	chr12	12q15	2	0	0	2	Amplification	2	0	42500T: 5; 42501T: 5.5;
<i>YES1</i>	chr18	18p11.32	3	0	0	3	Amplification	3	0	56957T: 8; 42493T: 3.5; 42500T: 4.5;
<i>YIF1B</i>	chr19	19q13.2	4	1	1	2	Amplification	4	0	42500T: 6.5; 42474T: 4; 56957T: 4; 42484T: 3.5;
<i>YIPF4</i>	chr2	2p22.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>YKT6</i>	chr7	7p13	2	1	0	1	Amplification	2	0	42497T: 7.5; 42473T: 4.5;
<i>YLPM1</i>	chr14	14q24.3	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
<i>YPEL1</i>	chr22	22q11.21-q1	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>YPEL4</i>	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
<i>YPEL5</i>	chr2	2p23.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>YTHDC2</i>	chr5	5q22.2	1	0	0	1	Amplification	1	0	42495T: 3.5;
<i>YTHDF1</i>	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
<i>YTHDF2</i>	chr1	1p35.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
<i>YTHDF3</i>	chr8	8q12.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>YWHAB</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>YWHAG</i>	chr7	7q11.23	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>YWHAQ</i>	chr2	2p25.1	1	0	0	1	Amplification	1	0	42500T: 3.5;
<i>YWHAZ</i>	chr8	8q22.3	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
<i>YY1AP1</i>	chr1	1q22	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>ZAP70</i>	chr2	2q11.2	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ZARI</i>	chr4	4p11	1	0	1	0	Amplification	1	0	42483T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
ZARIL	chr13	13q13.1	1	0	0	1	Amplification	1	0	42497T: 3.5;
ZBBX	chr3	3q26.1	9	1	3	5	Amplification	9	0	42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5; 42500T: 8; 42495T: 4; 42474T: 3.5; 56957T: 4; 42484T: 4;
ZBP1	chr20	20q13.31	1	1	0	0	Amplification	1	0	42473T: 7;
ZBTB1	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
ZBTB10	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
ZBTB11	chr3	3q12.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
ZBTB12	chr6	6p21.33	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZBTB14	chr18	18p11.31	1	0	0	1	Amplification	1	0	56957T: 8;
ZBTB17	chr1	1p36.13	1	1	0	0	Amplification	1	0	42473T: 8;
ZBTB20	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
ZBTB21	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZBTB24	chr6	6q21	1	0	0	1	Amplification	1	0	42496T: 3.5;
ZBTB25	chr14	14q23.3	1	0	0	1	Amplification	1	0	42494T: 4;
ZBTB32	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
ZBTB38	chr3	3q23	4	0	1	3	Amplification	4	0	42492T: 3.5; 42493T: 3.5; 42487T: 3.5; 42496T: 4;
ZBTB40	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 4;
ZBTB46	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
ZBTB7B	chr1	1q21.3	2	1	0	1	Amplification	2	0	42496T: 3.5; 42473T: 6.5;
ZC2HC1A	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
ZC2HC1C	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
ZC3H15	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
ZC3H3	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
ZC3H7A	chr16	16p13.13	2	1	0	1	Amplification	2	0	42495T: 4; 42473T: 12.5;
ZC3HAV1	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZC3HAV1L	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZC3HC1	chr7	7q32.2	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZCCHC17	chr1	1p35.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZCCHC3	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZCCHC8	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
ZCRB1	chr12	12q12	1	0	0	1	Amplification	1	0	42500T: 3.5;
ZDHHC11	chr5	5p15.33	5	2	1	2	Amplification	5	0	42486T: 3.5; 42473T: 3.5; 42496T: 4; 42475T: 3.5; 42493T: 3.5;
ZDHHC11B	chr5	5p15.33	5	2	1	2	Amplification	5	0	42493T: 3.5; 42473T: 3.5; 42496T: 4; 42486T: 3.5; 42475T: 3.5;
ZDHHC19	chr3	3q29	9	1	3	5	Amplification	9	0	42495T: 4; 42474T: 3.5; 56957T: 6; 42484T: 4; 42498T: 3.5; 42493T: 5; 42487T: 3.5; 42492T: 3.5; 42482T: 3.5;
ZDHHC21	chr9	9p22.3	1	0	0	1	Amplification	1	0	42498T: 14.5;
ZDHHC22	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
ZDHHC23	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
ZDHHC24	chr11	11q13.2	1	0	0	1	Amplification	1	0	56957T: 5.5;
ZDHHC4	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 5; 42473T: 4.5;
ZDHHC5	chr11	11q12.1	1	0	0	1	Amplification	1	0	42496T: 4.5;
ZFAND1	chr8	8q21.13	2	0	0	2	Amplification	2	0	42496T: 3.5; 42495T: 3.5;
ZFAND2A	chr7	7p22.3	1	1	0	0	Amplification	1	0	42473T: 5;
ZFAND3	chr6	6p21.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
ZFAT	chr8	8q24.22	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
ZFC3H1	chr12	12q21.1	1	0	0	1	Amplification	1	0	42501T: 6.5;
ZFHX2	chr14	14q11.2	1	0	0	1	Amplification	1	0	42496T: 4;
ZFHX4	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
ZFP14	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
ZFP30	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZFP36	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 6.5; 56957T: 4;
ZFP36L1	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
ZFP36L2	chr2	2p21	2	0	1	1	Amplification	2	0	42484T: 3.5; 42500T: 3.5;
ZFP41	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
ZFP62	chr5	5q35.3	1	0	0	1	Amplification	1	0	42495T: 3.5;
ZFP64	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
ZFP82	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
ZFPM2	chr8	8q23.1	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
ZFR	chr5	5p13.3	4	1	1	2	Amplification	4	0	42486T: 3.5; 42496T: 3.5; 42475T: 3.5; 42493T: 3.5;
ZFYVE1	chr14	14q24.2	2	0	0	2	Amplification	2	0	42494T: 4; 56957T: 3.5;
ZFYVE19	chr15	15q15.1	1	0	0	1	Amplification	1	0	42493T: 6.5;
ZFYVE26	chr14	14q24.1	1	0	0	1	Amplification	1	0	42494T: 4;
ZGPAT	chr20	20q13.33	1	1	0	0	Amplification	1	0	42473T: 6;
ZHX1	chr8	8q24.13	4	1	1	2	Amplification	4	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
ZHX2	chr8	8q24.13	4	1	1	2	Amplification	4	0	42496T: 3.5; 42475T: 3.5; 42484T: 3.5; 42495T: 3.5;
ZHX3	chr20	20q12	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZIC1	chr3	3q24	7	1	1	5	Amplification	7	0	42492T: 3.5; 42474T: 3.5; 42493T: 3.5; 56957T: 4; 42487T: 3.5; 42497T: 4.5; 42496T: 4;
ZIC4	chr3	3q24	7	1	1	5	Amplification	7	0	42497T: 4.5; 42496T: 4; 42492T: 3.5; 56957T: 4; 42487T: 3.5; 42493T: 3.5; 42474T: 3.5;
ZKSCAN2	chr16	16p12.1	1	1	0	0	Amplification	1	0	42473T: 4;
ZMAT3	chr3	3q26.32	11	1	3	7	Amplification	11	0	42500T: 9.5; 42497T: 4; 56957T: 4; 42474T: 3.5; 42495T: 4; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42487T: 3.5; 42493T: 3.5; 42492T: 3.5;
ZMAT5	chr22	22q12.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZMIZ2	chr7	7p13	1	1	0	0	Amplification	1	0	42473T: 4.5;
ZMYND19	chr9	9q34.3	2	1	0	1	Amplification	2	0	56957T: 3.5; 42473T: 5;
ZMYND8	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
ZNF107	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
ZNF112	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF117	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
ZNF12	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 5; 42473T: 4.5;
ZNF131	chr5	5p12	5	1	2	2	Amplification	5	0	42493T: 3.5; 42475T: 3.5; 42483T: 3.5; 42486T: 3.5; 42496T: 3.5;
ZNF138	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
ZNF146	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZNF148	chr3	3q21.2	1	0	0	1	Amplification	1	0	42496T: 3.5;
ZNF155	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF16	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
ZNF174	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
ZNF180	chr19	19q13.31	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
ZNF181	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 56957T: 4; 42484T: 3.5;
ZNF2	chr2	22p11.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZNF200	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
ZNF205	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
ZNF212	chr7	7q36.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZNF213	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
ZNF217	chr20	20q13.2	1	1	0	0	Amplification	1	0	42473T: 5;
ZNF221	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF222	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF223	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF224	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF225	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF226	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF227	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF229	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF230	chr19	11p15.4 11p	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF233	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF234	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF235	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF250	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
ZNF251	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
ZNF252P	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
ZNF260	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
ZNF263	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
ZNF273	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
ZNF277	chr7	7q31.1	2	0	1	1	Amplification	2	0	42501T: 3.5; 42487T: 3.5;
ZNF280A	chr22	22q11.22	1	1	0	0	Amplification	1	0	42477T: 4;
ZNF280B	chr22	22q11.22	1	1	0	0	Amplification	1	0	42477T: 4;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
ZNF282	chr7	7q36.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZNF283	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF284	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF285	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF285B	chr19	19q13.31	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
ZNF295	chr21	21q22.3	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZNF296	chr19	19q13.32	2	1	0	1	Amplification	2	0	56957T: 4; 42473T: 3.5;
ZNF30	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 56957T: 4; 42484T: 3.5;
ZNF302	chr19	19q13.11	3	0	1	2	Amplification	3	0	42500T: 4.5; 56957T: 4; 42484T: 3.5;
ZNF334	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
ZNF335	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
ZNF34	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
ZNF341	chr20	20q11.22	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 5;
ZNF343	chr20	20p13	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZNF345	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
ZNF382	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
ZNF383	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
ZNF385A	chr12	12q13.13	2	1	0	1	Amplification	2	0	42473T: 3.5; 42494T: 3.5;
ZNF385B	chr2	2q31.2-q31.3	1	0	0	1	Amplification	1	0	42493T: 3.5;
ZNF398	chr7	7q36.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42500T: 4;
ZNF404	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF408	chr11	16q24.2	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZNF410	chr14	14q24.3	2	0	0	2	Amplification	2	0	56957T: 3.5; 42494T: 4;
ZNF420	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
ZNF425	chr7	7q36.1	2	0	1	1	Amplification	2	0	42487T: 3.5; 42500T: 4;
ZNF428	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF433	chr19	19p13.2	1	0	0	1	Amplification	1	0	42496T: 5;
ZNF436	chr1	1p36.12	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZNF45	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF461	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
ZNF479	chr7	7p11.2	2	0	1	1	Amplification	2	0	56957T: 5; 42483T: 4;
ZNF500	chr16	16p13.3	3	1	0	2	Amplification	3	0	42495T: 12; 42494T: 3.5; 42473T: 5.5;
ZNF507	chr19	19q13.11	5	1	1	3	Amplification	5	0	42484T: 6; 56957T: 4; 42494T: 4; 42473T: 3.5; 42500T: 4.5;
ZNF512	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
ZNF512B	chr20	20q13.33	2	1	1	0	Amplification	2	0	42483T: 3.5; 42473T: 6;
ZNF513	chr2	2p23.3	1	0	0	1	Amplification	1	0	42500T: 3.5;
ZNF514	chr2	2q11.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZNF517	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
ZNF524	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
ZNF526	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
ZNF527	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
ZNF529	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZNF536	chr19	19q12	5	1	1	3	Amplification	5	0	42484T: 6; 56957T: 4; 42494T: 4; 42473T: 2.5; 42500T: 4.5;
ZNF540	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZNF546	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
ZNF566	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
ZNF567	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZNF568	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZNF569	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
ZNF570	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
ZNF571	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
ZNF572	chr8	8q24.13	4	1	1	2	Amplification	4	0	42484T: 3.5; 42495T: 3.5; 42496T: 3.5; 42475T: 3.5;
ZNF573	chr19	19q13.12	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 6.5;
ZNF574	chr19	19q13.2	1	1	0	0	Amplification	1	0	42473T: 4.5;
ZNF575	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF576	chr19	19q13.31	1	0	0	1	Amplification	1	0	56957T: 4;
ZNF579	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
ZNF580	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
ZNF581	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
ZNF585A	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 42484T: 3.5; 56957T: 4;
ZNF585B	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZNF592	chr15	15q25.3	1	1	0	0	Amplification	1	0	42473T: 4;
ZNF597	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
ZNF598	chr16	16p13.3	1	0	1	0	Amplification	1	0	42483T: 3.5;
ZNF599	chr19	19q13.11	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 4.5;
ZNF607	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZNF622	chr5	5p15.1	4	1	1	2	Amplification	4	0	42493T: 4; 42486T: 3.5; 42496T: 3.5; 42475T: 3.5;
ZNF623	chr8	8q24.3	3	0	1	2	Amplification	3	0	42483T: 3.5; 42496T: 4; 42495T: 4.5;
ZNF628	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
ZNF638	chr2	2p13.3-p13.2	1	0	0	1	Amplification	1	0	42500T: 3.5;
ZNF639	chr3	3q26.33	11	1	3	7	Amplification	11	0	42500T: 9.5; 42497T: 4; 56957T: 4; 42495T: 4; 42474T: 3.5; 42498T: 3.5; 42484T: 4; 42482T: 3.5; 42493T: 3.5; 42487T: 3.5; 42492T: 3.5;
ZNF664	chr12	12q24.31	1	0	0	1	Amplification	1	0	42500T: 3.5;
ZNF680	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
ZNF687	chr1	1q21.3	1	1	0	0	Amplification	1	0	42473T: 4.5;
ZNF691	chr1	1p34.2	2	0	0	2	Amplification	2	0	42496T: 5.5; 42493T: 6;
ZNF696	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42483T: 3.5; 42496T: 4;
ZNF7	chr8	8q24.3	3	0	1	2	Amplification	3	0	42496T: 4; 42483T: 3.5; 42495T: 4.5;
ZNF703	chr8	8p11.23	1	0	1	0	Amplification	1	0	42482T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
ZNF704	chr8	8q21.13	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
ZNF706	chr8	8q22.3	2	0	0	2	Amplification	2	0	42495T: 3.5; 42496T: 3.5;
ZNF707	chr8	8q24.3	3	0	1	2	Amplification	3	0	42495T: 4.5; 42496T: 4; 42483T: 3.5;
ZNF710	chr15	15q26.1	1	1	0	0	Amplification	1	0	42473T: 3.5;
ZNF713	chr7	7p11.2	2	0	1	1	Amplification	2	0	56957T: 5; 42483T: 4;
ZNF716	chr7	7p11.2	2	0	1	1	Amplification	2	0	56957T: 5; 42483T: 4;
ZNF733P	chr7	7q11.21	1	0	0	1	Amplification	1	0	56957T: 5;
ZNF74	chr22	22q11.21	2	1	0	1	Amplification	2	0	42497T: 3.5; 42477T: 4;
ZNF746	chr7	7q36.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZNF75A	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
ZNF763	chr19	19p13.2	1	0	0	1	Amplification	1	0	42496T: 5;
ZNF767	chr7	7q36.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZNF777	chr7	7q36.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZNF780A	chr19	19q13.2	2	0	0	2	Amplification	2	0	56957T: 4; 42500T: 7.5;
ZNF780B	chr19	19q13.2	2	0	0	2	Amplification	2	0	42500T: 7.5; 56957T: 4;
ZNF781	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
ZNF783	chr7	7q36.1	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZNF784	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
ZNF786	chr7	7q36.1	2	0	1	1	Amplification	2	0	42500T: 4; 42487T: 3.5;
ZNF790	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
ZNF792	chr19	19q13.11	3	0	1	2	Amplification	3	0	56957T: 4; 42484T: 3.5; 42500T: 4.5;
ZNF793	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZNF80	chr3	3q13.31	1	0	0	1	Amplification	1	0	42496T: 3.5;
ZNF800	chr7	7q31.33	1	0	1	0	Amplification	1	0	42487T: 3.5;
ZNF804A	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
ZNF804B	chr7	7q21.13	2	0	2	0	Amplification	2	0	42487T: 3.5; 42483T: 3.5;
ZNF815P	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 10.5;
ZNF829	chr19	19q13.12	3	0	1	2	Amplification	3	0	42484T: 3.5; 56957T: 4; 42500T: 6.5;
ZNF831	chr20	20q13.32	1	1	0	0	Amplification	1	0	42473T: 4.5;
ZNF850	chr19	19q13.12	3	0	1	2	Amplification	3	0	42500T: 6.5; 56957T: 4; 42484T: 3.5;
ZNF853	chr7	7p22.1	2	1	0	1	Amplification	2	0	42497T: 5; 42473T: 4.5;
ZNF865	chr19	19q13.42	1	0	0	1	Amplification	1	0	42494T: 3.5;
ZNF890P	chr7	7p22.1	2	1	0	1	Amplification	2	0	42473T: 4.5; 42497T: 8.5;
ZNF92	chr7	7q11.21	1	0	0	1	Amplification	1	0	42501T: 3.5;
ZNFX1	chr20	20q13.13	1	1	0	0	Amplification	1	0	42473T: 5;
ZNHIT1	chr7	7q22.1	2	0	0	2	Amplification	2	0	42501T: 3.5; 42493T: 3.5;
ZNRF2	chr7	7p14.3	1	1	0	0	Amplification	1	0	42473T: 4;
ZP2	chr16	16p12.3-p12	1	1	0	0	Amplification	1	0	42473T: 4;
ZP3	chr7	7q11.23	1	0	0	1	Amplification	1	0	42493T: 3.5;
ZPBP	chr7	7p12.2	1	0	0	1	Amplification	1	0	42497T: 20.5;
ZPBP2	chr17	17q21.1	1	0	0	1	Amplification	1	0	42497T: 3.5;

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 Supplementary Table 7A. List of copy number alterations and affected genes in ESCC patients

Gene	Chromosome	Cytoband	Recurrence	Recurrence in smoker cohort	Recurrence in chewer cohort	Recurrence in No habit cohort	State	Samples with CNA gain	Samples with CNA loss	File info with CNA fold
<i>ZPLD1</i>	chr3	3q12.3	1	1	0	0	Amplification	1	0	42476T: 3.5;
<i>ZSCAN10</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>ZSCAN2</i>	chr15	15q25.2	1	1	0	0	Amplification	1	0	42473T: 4;
<i>ZSCAN32</i>	chr16	16p13.3	1	1	0	0	Amplification	1	0	42473T: 5.5;
<i>ZSWIM1</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ZSWIM2</i>	chr2	2q32.1	1	0	0	1	Amplification	1	0	42493T: 3.5;
<i>ZSWIM3</i>	chr20	20q13.12	1	1	0	0	Amplification	1	0	42473T: 5;
<i>ZSWIM8</i>	chr10	10q22.2	2	1	0	1	Amplification	2	0	42473T: 3.5; 42496T: 3.5;
<i>ZXDC</i>	chr3	3q21.3	1	0	0	1	Amplification	1	0	42496T: 3.5;
<i>ZYX</i>	chr7	7q34	1	0	1	0	Amplification	1	0	42487T: 3.5;

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
1p11.2	1	1
1p12	1	1
1p13.3	15	2
1p22.2	1	9
1p22.3	6	1
1p32.3	1	1
1p34.1	2	3
1p34.2	21	2
1p34.3	1	1
1p35.1	3	1
1p35.2	27	1
1p35.2-p35.1	1	1
1p35.3	27	2
1p36.11	36	2
1p36.11-p35.3	1	1
1p36.12	44	2
1p36.13	43	1
1p36.13 1p35-p36.1	1	1
1p36.21	3	1
1p36.33	3	4
1q21.1	26	1
1q21.2	38	3
1q21.3	116	4
1q22	47	2
1q22-q23.1	1	1
1q23.1	23	1
1q23.3	2	1
1q25.2	2	1
1q25.2-q25.3	1	1
1q25.3	3	1
1q31.3	2	1
1q32.1	18	2
1q41	2	2
1q42.12	9	4
1q42.3	4	1
1q44	1	1
2p11.2	44	5
2p12	13	1
2p13.1	33	1
2p13.2	11	1

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
2p13.3	36	1
2p13.3-p13.2	1	1
2p14	16	2
2p15	15	3
2p15-p14	1	2
2p16.1	15	3
2p16.1-p15	1	3
2p16.2	9	2
2p16.3	10	2
2p21	34	2
2p21 2p16-p12	1	2
2p21-p16.3	1	2
2p22.1	14	3
2p22.1 2p22-p21	1	1
2p22.2	15	2
2p22.2-p22.1	1	2
2p22.3	12	1
2p23.1	8	1
2p23.2	12	1
2p23.2-p23.1	1	1
2p23.3	66	1
2p24.1	14	2
2p24.1-p23.3	1	1
2p24.2	9	1
2p24.3	4	1
2p25.1	26	1
2p25.1 2p24	1	1
2p25.2	3	1
2p25.3	16	2
2q11.1	8	2
2q11.2	58	3
2q11.2-q12.1	1	1
2q12.1	10	1
2q12.1-q12.2	1	1
2q12.2	2	1
2q13	1	1
2q14.1	1	1
2q14.2	2	1
2q14.3	1	2
2q21.1	1	2

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
2q22.1-q22.2	1	1
2q24.1	3	2
2q24.2	1	2
2q24.3	2	2
2q24-q32	1	1
2q31.1	29	2
2q31.2	15	2
2q31.2-q31.3	1	1
2q31.3	6	1
2q31.3-q32.1	1	1
2q32.1	14	1
2q32.1-q32.2	1	1
2q32.2	18	3
2q32.2-q32.3	1	3
2q32.3	8	3
2q33.1	16	1
2q34	1	1
2q35	6	5
2q37.1	5	1
2q37.3	14	4
3p21.1	2	2
3p21.31	14	2
3p22.2	8	1
3p22-p21.2	1	1
3q11.1	1	2
3q11.1-q11.2	1	2
3q11.2	20	3
3q12.1	5	1
3q12.1 3	1	1
3q12.1-q12.2	1	1
3q12.2	7	1
3q12.3	9	1
3q13.2	21	1
3q13.31	12	1
3q13.32	4	1
3q13.32-q13.33	1	1
3q13.33	26	1
3q13.33-q21.1	1	1
3q21.1	19	2
3q21.1-q21.2	1	1

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
3q21.2	10	1
3q21.2-q21.3	1	1
3q21.3	40	5
3q21.3-q22.1	1	2
3q22.1	29	3
3q22.1-q22.2	1	3
3q22.2	6	4
3q22.2-q22.3	1	4
3q22.3	18	4
3q23	26	6
3q24	15	8
3q24-q25.1	1	8
3q25.1	25	10
3q25.1-q25.2	1	9
3q25.2	7	9
3q25.31	9	9
3q25.31-q25.32	1	8
3q25.32	10	8
3q25.32-q25.33	1	8
3q25.33	7	8
3q25.33-q26.1	1	8
3q26.1	11	10
3q26.2	20	9
3q26.2-q26.31	1	9
3q26.31	9	9
3q26.32	5	11
3q26.33	15	11
3q27.1	30	13
3q27.2	11	10
3q27.2-q27.3	1	10
3q27.3	18	10
3q27.3-q28	1	10
3q28	12	10
3q28-q29	1	10
3q29	44	10
4p11	7	1
4p14	12	1
4p15.1-q12	1	1
4p15.2	1	3
4p15.31	1	1

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
4q21.1	1	3
4q21.21	3	1
5p12	14	5
5p13.1	14	6
5p13.1-p12	1	5
5p13.2	28	8
5p13.2-p13.1	1	6
5p13.3	9	4
5p13.3-p13.2	1	4
5p14.1	1	4
5p14.2	2	4
5p14.2-p14.1	1	4
5p14.3	3	4
5p15.1	6	5
5p15.2	12	5
5p15.31	12	4
5p15.32	2	4
5p15.33	30	5
5q11.1	3	2
5q11.2	1	1
5q11.2-q12.1	1	1
5q13.3	1	1
5q14.3	6	1
5q22.2	1	1
5q23.1	1	1
5q23.2	2	1
5q23.3	1	1
5q31.1	17	1
5q31.2	6	2
5q31.3	2	4
5q35.2	1	2
5q35.3	11	2
6p11.2	1	1
6p12.1	4	1
6p12.1 6p12.3-p11.2	1	1
6p12.1-p11.2	1	1
6p21.1	1	1
6p21.2	9	3
6p21.31	1	1
6p21.32	14	2

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
6p21.33	45	2
6p21.33-p21.32	1	1
6p22.1	1	1
6q21	46	2
6q21 6q21-q22.1	1	1
6q23.3	3	1
6q23.3-q24.1	1	1
6q24.1	1	1
6q25.3	3	1
7p11.2	18	3
7p12.1	2	1
7p12.2	4	1
7p12.2-p12.1	1	1
7p12.3	4	2
7p13	31	2
7p14.1	18	1
7p14.1-p13	1	1
7p14.2	9	1
7p14.2-p14.1	1	1
7p14.3	32	1
7p15.1	1	1
7p15.2	21	1
7p15.2-p15.1	1	1
7p15.3	25	1
7p21.1	18	1
7p21.2	6	1
7p21.3	11	2
7p22.1	34	2
7p22.1-p21.3	1	2
7p22.2	2	2
7p22.3	32	1
7p22.3-p22.2	1	1
7q11.21	25	3
7q11.22	1	1
7q11.23	14	2
7q11.23-q21.11	1	1
7q21.11	10	2
7q21.11-q21.12	1	2
7q21.12	12	2
7q21.13	9	3

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
7q21.2	13	3
7q21.2-q21.3	1	2
7q21.3	23	2
7q22	1	2
7q22.1	44	7
7q22.1-q22.2	1	4
7q22.2-q22.3	1	4
7q22.3	18	4
7q22.3-q31.1	1	4
7q31.1	17	4
7q31.1 14q24.2-q24.3	1	3
7q31.1-q31.2	1	1
7q31.2	9	1
7q31.31	7	1
7q31.32	13	2
7q31.32 7q31	1	2
7q31.33	4	1
7q32.1	24	2
7q32.2	16	7
7q32.3	3	1
7q32.3-q33	1	1
7q33	25	1
7q33-q34	1	1
7q34	56	2
7q34-q35	1	1
7q35	21	2
7q35-q36.1	1	2
7q36.1	13	2
8p11.1	1	1
8p11.21	8	1
8p11.21-p11.1	1	1
8p11.22	1	1
8p11.23	18	2
8p12	22	2
8p21.2	1	2
8p21.3	1	1
8p23.1	45	1
8p23.2	1	1
8p23.3	4	1
8p23-p22	1	1

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
8q11.1	1	3
8q11.21	9	5
8q11.22-q11.23	2	6
8q11.23	11	5
8q11.2-q13.2	1	1
8q12.1	17	3
8q12.1-q12.2	1	2
8q12.2-q12.3	1	2
8q12.3	8	2
8q13.1	19	4
8q13.1 8q13	1	3
8q13.1-q13.2	1	3
8q13.2	4	3
8q13.2-q13.3	1	2
8q13.3	7	2
8q21.11	12	2
8q21.13	22	2
8q21.2	8	2
8q21.3	20	3
8q22.1	26	3
8q22.1-q22.2	1	2
8q22.2	13	2
8q22.3	24	2
8q23.1	11	2
8q23.1-q23.2	1	2
8q23.2	3	2
8q23.3	1	3
8q23.3-q24.11	1	3
8q24.11	6	3
8q24.11-q24.12	1	3
8q24.12	11	4
8q24.13	25	4
8q24.21	8	5
8q24.21-q24.22	1	3
8q24.22	14	4
8q24.23	2	2
8q24.23-q24.3	1	2
8q24.3	97	5
9p13.2	1	1
9p13.3	39	3

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
9p21.3	21	2
9p22.3	2	1
9p23	1	1
9p23-p22.3	1	1
9p24.1	23	3
9p24.1-p23	1	1
9p24.2	6	3
9p24.2-p24.1	1	1
9p24.3	7	2
9q21.13	3	1
9q31.3	6	1
9q32	3	1
9q32-q33.1	1	1
9q33.1	1	1
9q34.12	1	1
9q34.12-q34.13	1	1
9q34.13	7	1
9q34.3	86	3
10p	1	2
10p11.1	2	1
10p11.22-p11.21	1	3
10p12.1	3	1
10p13	3	1
10p15.1	1	6
10q22.2	14	2
10q26.11	1	1
11p11.12	5	1
11p11.2	51	3
11p11.2 11p12-p11	1	1
11p13	8	2
11p15.4 11p15	1	1
11p15.5	3	1
11q11	13	1
11q12.1	33	3
11q12.3	1	1
11q13.1	2	4
11q13.2	60	5
11q13.3	17	12
11q13.3-q13.4	1	11
11q13.4	49	9

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
11q13.4-q13.5	1	2
11q13.5	15	5
11q22.1	5	1
11q22.2	7	8
11q22.3	2	1
11q23.3	11	1
11q25	7	1
12p11.1	1	1
12p11.21	16	1
12p11.22	11	4
12p11.23	9	1
12p11.23-p11.22	1	1
12p12.1	28	2
12p12.2	3	1
12p12.3	19	2
12p13.1	15	1
12p13.1-p12.3	1	1
12p13.2	8	1
12p13.31	22	2
12p13.32	9	1
12p13.33	10	1
12q12	27	1
12q13.11	22	1
12q13.11-q13.12	1	1
12q13.12	50	2
12q13.12-q13.13	1	2
12q13.13	41	4
12q13.13-q13.2	1	2
12q13.2	46	11
12q13.3	6	3
12q14.3	2	1
12q14.3-q15	1	2
12q15	23	2
12q21.1	9	1
12q23.1	2	1
12q24.11	34	2
12q24.11-q24.12	1	1
12q24.12	5	1
12q24.12-q24.13	3	1
12q24.13	20	2

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
12q24.13-q24.21	1	1
12q24.21	3	1
12q24.22	8	1
12q24.22-q24.23	1	1
12q24.23	15	1
12q24.23-q24.31	1	1
12q24.31	77	1
12q24.31 12q24.2	1	1
12q24.31-q24.32	1	1
12q24.33	9	5
13q12.3	8	1
13q13.1	8	1
13q13.1-q13.2	1	1
13q14.2	2	1
13q22.1	1	2
13q22.3	1	1
13q32.2	1	2
13q32.3	1	1
13q34	21	2
14q11.2	48	3
14q12	15	3
14q13.1	6	1
14q13.1-q13.2	1	2
14q13.2	9	2
14q13.3	5	2
14q13.3-q21.1	1	2
14q21.1	11	3
14q21.2	8	1
14q21.3	15	3
14q22.1	22	3
14q22.2	7	1
14q22.2-q22.3	1	1
14q22.3	16	2
14q22.3-q23.1	1	1
14q23.1	26	2
14q23.2	11	1
14q23.2-q23.3	1	1
14q23.3	18	1
14q23.3-q24.1	2	1
14q24.1	19	1

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
14q24.1 14q22-q24	1	1
14q24.2	19	2
14q24.2-q24.3	1	2
14q24.3	67	2
14q24.3-q31.1	1	1
14q31.1	1	1
14q32.11	6	1
14q32.13	1	5
14q32.2	2	3
15q11.1	1	2
15q11.1-q11.2	1	2
15q11.2	4	2
15q15.1	18	2
15q21.3	1	1
15q22.2	1	1
15q24.1	22	1
15q25.1	13	1
15q25.2	3	1
15q25.2-q25.3	1	1
15q25.3	4	1
15q26.1	19	1
16p11.2	1	2
16p12.1	9	1
16p12.2	28	2
16p12.2-p12.1	1	1
16p12.3	34	3
16p12.3-p12.2	1	1
16p13.11	13	2
16p13.12	7	2
16p13.13	19	2
16p13.13-p13.12	1	2
16p13.2	10	3
16p13.2-p13.13	1	2
16p13.3	167	10
16q13	1	9
16q21	1	1
16q22.1	1	4
16q23.1	1	4
16q24.2	1	1
17p11.2	2	4

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
17p13.1	1	1
17q11.2	16	1
17q12	35	2
17q12-q21.1	1	1
17q21.1	13	1
17q21.2	2	1
17q21.33	18	1
17q22	37	1
17q25.1	26	2
17q25.3	20	1
18p11.21	7	2
18p11.21 18	1	1
18p11.23	1	1
18p11.31	14	4
18p11.32	16	4
18p11.32-p11.31	1	2
18q11.2	10	1
18q12.1	2	1
18q12.2	1	3
18q21.2	2	1
19p13.11	1	1
19p13.13	1	1
19p13.2	3	10
19p13.3	17	1
19q12	8	5
19q13.11	33	5
19q13.12	83	5
19q13.12 19q13.11	1	3
19q13.13	1	3
19q13.13-q13.2	1	3
19q13.2	125	6
19q13.31	45	2
19q13.31-q13.32	1	2
19q13.32	63	3
19q13.42	24	5
19q13.42-q13.43	1	1
19q13.43	2	1
20p11.22	2	1
20p11.23	8	1
20p12.2	3	1

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Supplementary Table 7B. List of cytobands and number of genes affected by Copy number alterations (CNA)

Cytoband	Number of genes affected by CNA	Number of samples
20p12.3	2	1
20p13	81	4
20p13-p12.3	1	1
20q11.2	1	2
20q11.21	44	2
20q11.21-q11.22	1	2
20q11.22	37	3
20q11.22-q11.23	1	1
20q11.23	42	1
20q11.23-q12	1	1
20q12	7	1
20q12-q13.11	1	1
20q13.11	1	1
20q13.12	81	1
20q13.13	24	1
20q13.2	13	1
20q13.2-q13.31	1	1
20q13.31	14	5
20q13.32	15	1
20q13.32-q13.33	1	1
20q13.33	66	7
21q22.11	1	1
21q22.2	11	1
21q22.2-q22.3	1	1
21q22.3	23	10
22p11.2	1	1
22q11.21	48	3
22q11.21 22q11.1-q11.2	1	1
22q11.21 22q11.2	1	1
22q11.21-q11.22	1	1
22q11.22	7	8
22q11.23	5	1
22q12.2	16	1
22q12.3	26	1
22q13.1	62	1
22q13.1-q13.2	2	1
22q13.31	3	1