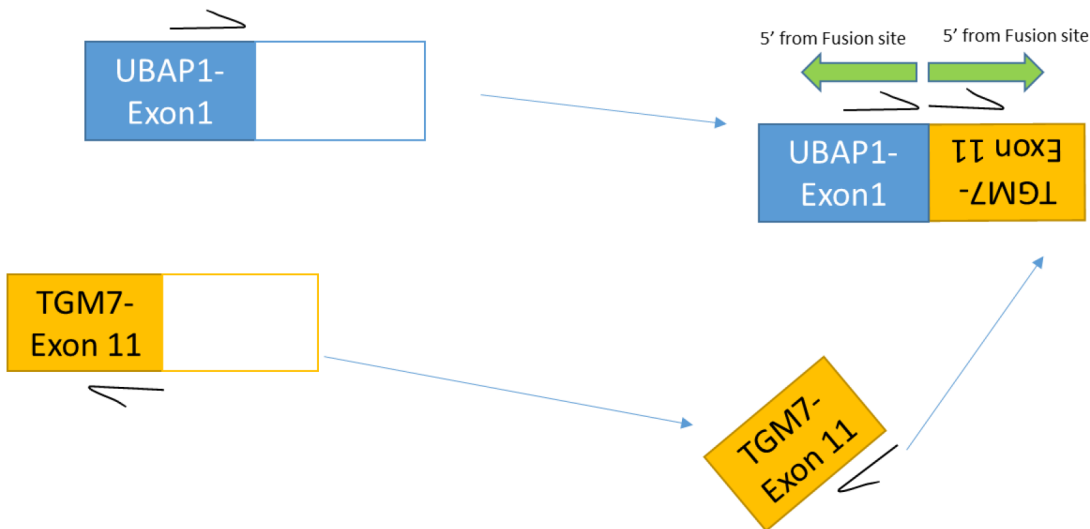


# Characterization of fusion genes in common and rare epithelial ovarian cancer histologic subtypes

## Supplementary Materials

### UBAP1-TGM7 Fusion



AATAGGACTCGCTGCTAACTCTTTGGGCATACCTTCGCGATTCAAGGCTCTTGGGTTTCCCGCTTTGGCCGCTCGCCAAACCAAGTCTTACACTCTTAGTG  
 ACCCCCTCTTTCTCCTTCCCCCTTAGGTCAGCAGGGTTACTCATTCCAATTGCAATGCTCCATGTTGCCGGAGTAGCTCCTCGCTAGAAGAGAGATTAGTT  
 ATGTCACCGTCGGCTCCTCCATTGGTCCGGGCGTGTGGAGCGCGGCCATGACGTGACAGCGCCAAATGAGTGGGGCGGTGAGGGGAAGGAGGAGGG  
 AAGTAGGACTTCAACATGGCGGCTGCGGCACTGGCGGTGGCTACGGTGACGGCTGGCCCGGAGCGGGCAGAGTTGGAGGTGGTGGCGTTTCGCTCTCCC  
 TAGGGGCTGTCGGGAGCTCAGCGGGGACCGAGCCTGGGAGGCCGGCCGTTGCCAGCACCTTCGGCTTCTGAGACGGCGGCAGCAGCGGCATT**CAGGA**  
**TC**CCTGAGGAGAGAGCTGTCTTCAAGGCTTCTCGGAAAATGCTGGGCCCCAAAGAGCTTCTTTGCCCTTCTGGATCTCTGGAGTCTGGGGGTCTT  
 AGGGATCAGCCAGCGCAGCTGCAGCTTACCTGGCCAGGATACCGAGTGGGGCCAGGACCTGCAGCTGTGCTGCTGATCCAGAGGGTCCAGACAGCA  
 CCCACCCTCGGGGCCCCATCGGACTGGTGTGCGCTTCTGTGCACAGGCCCTGCTGCATGGGGTGGTACCCAGAAGCCCTTCTGGAGGCACACAGTGCG  
 GATGAACCTGGACTTTGGGAAGGGTGAGTGTGAGGCAGGCCTGAGAAGGCACCTACAGGGAGGGGAGCTGTGGTCCATGAACACAGTGGGGTGGGCC  
 CAGCCAGATTACACAGACCCCTTCTCCAACACACACATTCTGGCAGTGAAGCTGCCAGCTGCTGCACCTTGATGCCACCCACCAGGGGAGA

Supplementary Figure 1: UBAP1-TGM7 fusion location.

Supplementary Table 1: Fusion genes identified in EOC tumor samples and passing filtering steps.  
 See Supplementary\_Table\_1

Supplementary Table 2: Detailed tumor sample information. See Supplementary\_Table\_2

**Supplementary Table 3: Detailed normal sample information**

<b>Participant No.</b>	<b>Source</b>	<b>Organ Site</b>	<b>Batch</b>	<b>No. Fusions Detected</b>	<b>No. Mapped Reads</b>
N1	Mayo Clinic	Ovary	1	0	51907112
N2	Mayo Clinic	Ovary	1	0	18324526
N3	Mayo Clinic	Ovary	1	0	52038734
N4	Mayo Clinic	Ovary	1	1	34403746
N5	Mayo Clinic	Ovary	1	0	34839661
N6	Mayo Clinic	Endometrium	1	0	30223837
N7	Mayo Clinic	Omentum	1	0	28672340
N8	GTEEx	Ovary	NA	0	73960262
N9	GTEEx	Ovary	NA	0	61642790
N10	GTEEx	Ovary	NA	2	62525368
N11	GTEEx	Ovary	NA	2	77658463
N12	GTEEx	Ovary	NA	7	73018343
N13	GTEEx	Ovary	NA	3	72532953
N14	GTEEx	Ovary	NA	2	88520755
N15	GTEEx	Ovary	NA	0	60244888
N16	GTEEx	Ovary	NA	1	77595569
N17	GTEEx	Ovary	NA	6	90730304

**Supplementary Table 4: RNA-seq batch (1–4) features**

	<b>Library Preparation</b>	<b>RNA selection</b>	<b>Sequencing Centre</b>	<b>Read Length</b>	<b>Average Mapped Reads (<math>\pm</math> s.d)</b>	<b>Number of Tumor Samples</b>	<b>Number of Normal Samples</b>
Batch 1	TruSeq Stranded Total RNA Library Preparation Kit	Total RNA, rRNA depleted	BGI Americas (Beijing, China)	101	45,128,496 $\pm$ 12,667,304	95	7
Batch 2	TruSeq Stranded Total RNA Library Preparation Kit	Total RNA, rRNA depleted	Epigenome Core, University of South California (Los Angeles, CA)	50	86,799,336 $\pm$ 23,817,596	17	0
Batch 3	TruSeq RNA Library Preparation Kit v2	mRNA	Medical Genome Facility, Mayo Clinic (Rochester, MN)	101	79,484,713 $\pm$ 7,226,239	30	0
Batch 4	TruSeq RNA Library Preparation Kit v2	mRNA	Medical Genome Facility, Mayo Clinic (Rochester, MN)	101	100,847,048 $\pm$ 18,454,007	78	0