## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

**Description:** P value thresholds for genome-wide significance for variants in different

annotations classes

File Name: Supplementary Data 2

**Description:** Association results for variants reaching genome-wide significance in meta-

analysis of leiomyoma

File Name: Supplementary Data 3

**Description:** Association results for 21 lead variants in meta-analysis of Icelandic and UK GWAS' of leiomyoma with summary of variants reported for other phenotypes at the loci.

File Name: Supplementary Data 4

**Description:** Association results for variants with P value  $< 5 \times 10^{-8}$  in meta-analysis of

leiomyoma

File Name: Supplementary Data 5

**Description:** Phenotypes tested for association with lead SNPs

File Name: Supplementary Data 6

**Description:** Association of leiomyoma risk variants with cancer and hormone-related traits

in Iceland

File Name: Supplementary Data 7

**Description:** Association of leiomyoma with reported endometriosis variants

File Name: Supplementary Data 8

Description: Association results for variants correlated with rs7913069 (OBFC1 locus) in

the Japanese population

File Name: Supplementary Data 9

**Description:** Association results for leiomyoma variants in a meta-analysis of endometrial

cancer in the Icelandic and UKB populations.

File Name: Supplementary Data 10

**Description:** Association between reported endometrial cancer variants and meta-analysis

of leiomyoma

File Name: Supplementary Data 11

**Description:** Summary of functional annotation of the 14 non-coding leiomyoma risk loci