

**Supplementary File 1** Differentially expressed genes based on gender.

Gene ID	Length	Entrez ID	Name	logFC	AveExpr	t	p-value	FDR-adjusted p-value	Location
UTY	9191	7404	ubiquitously transcribed tetratricopeptide repeat containing, Y-linked	11,5	0,474	40,7	2,0E-29	2,4E-25	Yq11.221
DDX3Y	5738	8653	DEAD-box helicase 3, Y-linked	8,70	2,34	37,1	3,6E-28	1,0E-24	Yq11.221
RPS4Y1	2275	6192	ribosomal protein S4, Y-linked 1	11,1	0,465	38,0	1,7E-28	1,0E-24	Yp11.2
EIF1AY	4074	9086	eukaryotic translation initiation factor 1A, Y-linked	11,4	0,430	37,5	2,5E-28	1,0E-24	Yq11.223
TTTY15	5284	64595	testis-specific transcript, Y-linked 15 (non-protein coding)	8,64	-1,11	37,0	4,2E-28	1,0E-24	Yq11.221
TTTY10	1726	246119	testis-specific transcript, Y-linked 10 (non-protein coding)	6,53	-2,00	36,7	5,1E-28	1,1E-24	Yq11.223
KDM5D	9463	8284	lysine demethylase 5D	10,6	0,386	35,5	1,4E-27	2,5E-24	Yq11.223
TXLNGY	11377	246126	taxilin gamma pseudogene, Y-linked	11,7	0,200	32,7	2,1E-26	3,2E-23	Yq11.222-q11.223
ZFY	5527	7544	zinc finger protein, Y-linked	8,18	0,693	31,6	5,6E-26	7,6E-23	Yp11.2
LINC00278	775	100873962	long intergenic non-protein coding RNA 278	7,80	-1,48	28,0	2,7E-24	3,3E-21	Yp11.31
XIST	19961	7503	X inactive specific transcript (non-protein coding)	-12,1	5,23	-26,2	2,1E-23	2,3E-20	Xq13.2
USP9Y	11237	8287	ubiquitin specific peptidase 9, Y-linked	8,37	1,87	25,1	8,1E-23	7,7E-20	Yq11.221
PRKY	7674	5616	protein kinase, Y-linked, pseudogene	7,46	1,06	25,1	8,1E-23	7,7E-20	Yp11.2
DDX3P1	1950	100133180	DEAD-box helicase 3 pseudogene 1	6,21	-1,47	23,7	4,4E-22	3,8E-19	Xq13.2
BCORP1	7069	286554	BCL6 corepressor pseudogene 1	8,21	-1,34	20,2	5,5E-20	4,5E-17	Yq11.222
TMSB4Y	1669	9087	thymosin beta 4, Y-linked	5,47	-0,923	19,6	1,5E-19	1,1E-16	Yq11.221
KDM6A	7139	7403	lysine demethylase 6A	-0,571	6,76	-8,06	3,0E-09	2,2E-06	Xp11.3
ZFX	9037	7543	zinc finger protein, X-linked	-0,458	7,38	-5,34	7,0E-06	0,0048	Xp22.11
EIF1AX	4427	1964	eukaryotic translation initiation factor 1A, X-linked	-0,567	4,96	-5,13	1,3E-05	0,0085	Xp22.12
TCEANC	5231	170082	transcription elongation factor A N-terminal and central domain containing	-0,600	5,92	-4,80	3,5E-05	0,021	Xp22.2
BMS1P1	4561	399761	BMS1, ribosome biogenesis factor pseudogene 1	-0,564	3,45	-4,59	6,4E-05	0,037	10q11.22
DDX3X	8928	1654	DEAD-box helicase 3, X-linked	-0,359	10,0	-4,57	6,7E-05	0,038	Xp11.4