

Table S1. Genes in recombining regions of the X chromosome. Genes found in PAR1, PAR2, and XTR regions.

| Region | Gene | RefSeq ID | Summary from NCBI Gene | Citation |
|--------|-----------|----------------|--|---|
| PAR1 | PLCXD1 | NR_028057.1 | Terminal protein-coding gene. | (Das <i>et al.</i> 2009) |
| | GTPBP6 | NM_012227.3 | Encodes GTP binding protein. | (Gianfrancesco <i>et al.</i> 1998) |
| | LINC00685 | NR_027231.1 | Long intergenic non-protein coding RNA. | (“Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences” 2002) |
| | PPP2R3B | NM_013239.4 | Ser/Thr phosphatase implicated in the negative control of cell growth and division. | (“Protein phosphatase 2A interacts with the Src kinase substrate p130CAS” 2001) |
| | SHOX | NM_000451.3 | Homeobox family. Defects are linked with idiopathic growth retardation and the short stature phenotype of Turner syndrome. | (Frederiksen <i>et al.</i> 2014) |
| | CRLF2 | NM_001012288.2 | Member of the type I cytokine receptor family. Helps control cell proliferation. | (Zhang <i>et al.</i> 2001) |
| | MIR3690 | NR_037461.1 | Non-coding RNAs involved in post-transcriptional regulation of gene expression. | (Vaz <i>et al.</i> 2010) |
| | IL3RA | NM_002183.3 | Encodes an interleukin 3 specific subunit of a heterodimeric cytokine receptor. | (Hara and Miyajima 1996) |
| | SLC25A6 | NM_001636.3 | Serves as a gated pore that translocates ADP and ATP between the cytoplasm and mitochondrial matrix. | (Schiebel <i>et al.</i> 1993) |
| | LINC00106 | NR_130733.1 | Long intergenic non-protein coding RNA. | (“Generation and initial |

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|-----|-----------|-------------|---|---|
| | | | | analysis of more than 15,000 full-length human and mouse cDNA sequences” 2002) |
| | ASMT | NM_004043.2 | Belongs to methyltransferase superfamily. Catalyzes the final reaction in the synthesis of melatonin. | (Botros <i>et al.</i> 2013) |
| | P2RY8 | NM_178129.4 | G-protein coupled receptor. | (Fujiwara <i>et al.</i> 2007) |
| | AKAP17A | NM_005088.2 | Protein kinase A anchoring protein. Part of the spliceosome complex. | (Jarnæss <i>et al.</i> 2009) |
| | DHRSX | NM_145177.2 | Dehydrogenase/reductase (SDR family) X-linked. | (Gianfrancesco <i>et al.</i> 2001) |
| | ZBED1 | NM_004729.3 | Zinc finger. Functions as a transcription factor. | (Esposito <i>et al.</i> 1999) |
| | MIR6089 | NR_106737.1 | Short non-coding RNAs involved in post-transcriptional regulation of gene expression. | (Vaz <i>et al.</i> 2010) |
| | CD99 | NM_002414.2 | Cell surface glycoprotein. | (Goodfellow <i>et al.</i> 1984) |
| | LINC00102 | NR_037842.1 | Long intergenic non-protein coding RNA. | (“Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences” 2002) |
| | XG | NM_175569.2 | XG blood group antigen and spans the pseudoautosomal boundary. | (Ellis <i>et al.</i> 1994) |
| | XGY2 | NR_003254.1 | XG pseudogene, y-linked 2 | (Weller <i>et al.</i> 1995) |
| XTR | TGIF2LX | NM_138960.3 | Member of the TALE/TGIF homeobox family of transcription factors. | (Blanco-Arias <i>et al.</i> 2002) |
| | PABPC5 | NM_080832.2 | Binds to the polyA tail of eukaryotic mRNAs. | (Blanco <i>et al.</i> 2001) |

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|------|----------|----------------|--|---|
| | PCDH11X | NM_001168361.1 | Belongs to the protocadherin gene family. Thought to play a role in cell-cell recognition. | (Yoshida and Sugano 1999) |
| | MIR4454 | NR_039659.1 | Affects the stability and translation of mRNAs. Involved in post-transcriptional regulation of gene expression. | (Vaz <i>et al.</i> 2010) |
| | NAP1L3 | NM_004538.5 | Has no introns and is a member of the nucleosome assembly protein family. | (Watanabe <i>et al.</i> 1996) |
| | FAM133A | NM_001171111.1 | Family with sequence similarity 133. | (“Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences” 2002) |
| PAR2 | SPRY3 | NM_001304990.1 | Sprouty RTK signaling antagonist 3. | (Bonis <i>et al.</i> 2006) |
| | VAMP7 | NR_033715.1 | Member of the soluble N-ethylmaleimide-sensitive attachment protein receptor (SNARE) family. Involved in the fusion of transport vesicles to their target membranes. | (Vacca <i>et al.</i> 2011) |
| | IL9R | NM_002186.2 | Cytokine receptor that mediates the biological effects of interleukin 9. | (Chang <i>et al.</i> 1994) |
| | DDX11L16 | NR_110561.1 | DEAD/H (Asp-Glu_Ala-Asp/His) box helicase 11 like 16. | (Costa <i>et al.</i> 2009) |