Table S1. Summary of all statistical analysis for the NIH test.

Figure	Analysis	Sex	Dependent variable	Factors	Statistical value
1A	2-way ANOVA	Male	Latency to eat	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,40)} = 0.07$, $p = 0.780$ ***Genotype: $F_{(1,40)} = 42.52$, $p = 0.001$ Drug × Genotype: $F_{(1,40)} = 1.69$, $p = 0.201$
1B	2-way ANOVA	Male	Pellet intake	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,40)} = 0.48$, $p = 0.490$ ***Genotype: $F_{(1,40)} = 49.48$, $p = 0.0001$ Drug × Genotype: $F_{(1,40)} = 0.31$, $p = 0.576$
1C	2-way ANOVA	Female	Latency to eat	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,32)} = 0.195$, $p = 0.662$ ***Genotype: $F_{(1,32)} = 12.10$, $p = 0.001$ Drug × Genotype: $F_{(1,32)} = 0.28$, $p = 0.600$
1D	2-way ANOVA	Female	Pellet intake	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,32)} = 0.07$, $p = 0.783$ ***Genotype: $F_{(1,32)} = 16.69$, $p = 0.0001$ Drug × Genotype: $F_{(1,32)} = 1.41$, $p = 0.244$
1E	2-way ANOVA	Male x Female	Latency to eat	Sex (male vs female) × Genotype (Wistar vs msP)	Sex: $F_{(1,35)} = 0.27$, $p = 0.601$ Genotype: $F_{(1,35)} = 34.65$, $p = 0.0001$ Sex × Genotype: $F_{(1,35)} = 0.96$, $p = 0.332$
1F	2-way ANOVA	Male x Female	Pellet intake	Sex (male vs female) × Genotype (Wistar vs msP)	@Sex: $F_{(1,35)} = 4.91$, $p = 0.048$ Genotype: $F_{(1,35)} = 10.91$, $p = 0.002$ Sex × Genotype: $F_{(1,35)} = 0.01$, $p = 0.90$

Note: Significant changes are reflected as *$p \leq 0.05$, **$p \leq 0.01$, ***$p \leq 0.001$ or sex effects as @$p \leq 0.05$.

Table S2. Summary of all statistical analysis for the CLAMS test

Figure	Analysis	Sex	Dependent variable	Factors	Statistical value
2A	2-way ANOVA	Male	Average bout duration	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,27)} = 3.06$, $p = 0.092$ *Genotype: $F_{(1,27)} = 4.92$, $p = 0.035$ Drug × Genotype: $F_{(1,27)} = 1.10$, $p = 0.303$
2B	2-way ANOVA	Male	Total sleep time	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,27)} = 2.42$, $p = 0.131$ Genotype: $F_{(1,27)} = 0.51$, $p = 0.479$ Drug × Genotype: $F_{(1,27)} = 3.11$, $p = 0.089$
2C	2-way ANOVA	Male	Number of sleep bouts	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,27)} = 4.08$, $p = 0.053$ Genotype: $F_{(1,27)} = 4.13$, $p = 0.052$ Drug × Genotype: $F_{(1,27)} = 1.10$, $p = 0.210$
2D	2-way ANOVA	Female	Average bout duration	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,28)} = 1.21$, $p = 0.280$ Genotype: $F_{(1,28)} = 0.07$, $p = 0.789$ Drug × Genotype: $F_{(1,28)} = 2.49$, $p = 0.126$
2E	2-way ANOVA	Female	Total sleep time	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,28)} = 0.38$, $p = 0.539$ Genotype: $F_{(1,28)} = 2.23$, $p = 0.146$ Drug × Genotype: $F_{(1,28)} = 9.36$, $p = 0.005$
2F	2-way ANOVA	Female	Number of sleep bouts	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,28)} = 0.76$, $p = 0.388$ Genotype: $F_{(1,28)} = 0.02$, $p = 0.872$ Drug × Genotype: $F_{(1,28)} = 1.58$, $p = 0.219$
2G	2-way ANOVA	Male x Female	Average bout duration	Sex (male vs female) × Genotype (Wistar vs msP)	Sex: $F_{(1,27)} = 1.23$, $p = 0.276$ Genotype: $F_{(1,27)} = 5.70$, $p = 0.024$ Sex × Genotype: $F_{(1,27)} = 2.61$, $p = 0.117$
2H	2-way ANOVA	Male x Female	Total sleep time	Sex (male vs female) × Genotype (Wistar vs msP)	Sex: $F_{(1,27)} = 0.89$, $p = 0.354$ Genotype: $F_{(1,27)} = 4.24$, $p = 0.049$ Sex × Genotype: $F_{(1,27)} = 0.46$, $p = 0.502$
2I	2-way ANOVA	Male x Female	Number of sleep bouts	Sex (male vs female) × Genotype (Wistar vs msP)	Sex: $F_{(1,27)} = 0.003$, $p = 0.954$ Genotype: $F_{(1,27)} = 4.72$, $p = 0.039$ Sex × Genotype: $F_{(1,27)} = 1.11$, $p = 0.300$

Note: Significant changes are reflected as *$p \leq 0.05$.

Table S3. Summary of statistical analysis for the acoustic startle test

Figure	Analysis	Sex	Dependent variable	Factors	Statistical value
3A	2-way ANOVA	Male	120 dB T1	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,26)} = 1.60$, $p = 0.217$ Genotype: $F_{(1,26)} = 0.84$, $p = 0.366$ Drug × Genotype: $F_{(1,26)} = 0.68$, $p = 0.414$
3B	2-way ANOVA	Male	120 dB T2-6	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,26)} = 0.55$, $p = 0.463$ **Genotype: $F_{(1,26)} = 10.56$, $p = 0.003$ Drug × Genotype: $F_{(1,26)} = 0.98$, $p = 0.330$
3C	2-way ANOVA	Male	120 dB final block	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,26)} = 0.10$, $p = 0.751$ ***Genotype: $F_{(1,26)} = 14.51$, $p = 0.001$ Drug × Genotype: $F_{(1,26)} = 0.66$, $p = 0.424$
3D	2-way ANOVA	Male	Prepulse inhibition	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,26)} = 1.19$, $p = 0.284$ **Genotype: $F_{(1,26)} = 9.32$, $p = 0.005$ Drug × Genotype: $F_{(1,26)} = 1.24$, $p = 0.274$
3E	3-way ANOVA	Male	80-105 dB	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP) x Intensity (80-105db)	Intensity: $F_{(5,130)} = 70.82$, $p = 0.0001$ Drug × Intensity: $F_{(5,130)} = 1.08$, $p = 0.373$ Genotype × Intensity: $F_{(5,130)} = 9.25$, $p = 0.001$ Drug × Genotype × Intensity: $F_{(5,130)} = 0.57$, $p = 0.720$
3F	2-way ANOVA	Female	120 dB T1	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,28)} = 2.15$, $p = 0.153$ **Genotype: $F_{(1,28)} = 8.89$, $p = 0.006$ Drug × Genotype: $F_{(1,28)} = 0.23$, $p = 0.630$
3G	2-way ANOVA	Female	120 dB T2-6	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,28)} = 1.43$, $p = 0.241$ Genotype: $F_{(1,28)} = 4.13$, $p = 0.052$ Drug × Genotype: $F_{(1,28)} = 2.26$, $p = 0.143$
3H	2-way ANOVA	Female	120 dB final block	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,28)} = 0.54$, $p = 0.466$ *Genotype: $F_{(1,28)} = 5.37$, $p = 0.028$ Drug × Genotype: $F_{(1,28)} = 1.20$, $p = 0.282$
3I	2-way ANOVA	Female	Prepulse inhibition	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP)	Drug: $F_{(1,28)} = 0.75$, $p = 0.392$ *Genotype: $F_{(1,28)} = 7.14$, $p = 0.012$ Drug × Genotype: $F_{(1,28)} = 0.64$, $p = 0.428$
3J	3-way ANOVA	Female	80-105 dB	Drug (vehicle vs mifepristone) × Genotype (Wistar vs msP) x Intensity (80-105db)	Intensity: $F_{(5,140)} = 34.60$, $p = 0.0001$ Drug × Intensity: $F_{(5,140)} = 0.58$, $p = 0.711$ Genotype × Intensity: $F_{(5,140)} = 4.88$, $p = 0.026$ Drug × Genotype × Intensity: $F_{(5,140)} = 1.72$, $p = 0.198$

Note: Significant changes are reflected as *$p \leq 0.05$, **$p \leq 0.01$, ***$p \leq 0.001$.

Table S4. Summary of statistical analysis for sex differences for the acoustic startle test

Figure	Analysis	Sex	Dependent variable	Factors	Statistical value
3K	2-way ANOVA	Male x Female	120 dB T1	Sex (male vs female) × Genotype (Wistar vs msP)	Sex: $F_{(1,26)} = 12.08$, $p = 0.002$ Genotype: $F_{(1,26)} = 6.09$, $p = 0.020$ Sex × Genotype: $F_{(1,26)} = 4.81$, $p = 0.037$
3L	2-way ANOVA	Male x Female	120 dB T2-6	Sex (male vs female) × Genotype (Wistar vs msP)	$^{@@@}$Sex: $F_{(1,26)} = 18.14$, $p = 0.0001$ Genotype: $F_{(1,26)} = 2.15$, $p = 0.154$ Sex × Genotype: $F_{(1,26)} = 0.09$, $p = 0.761$
3M	2-way ANOVA	Male x Female	120 dB final block	Sex (male vs female) × Genotype (Wistar vs msP)	$^{@@@}$Sex: $F_{(1,26)} = 18.20$, $p = 0.0001$ Genotype: $F_{(1,26)} = 11.15$, $p = 0.003$ Sex × Genotype: $F_{(1,26)} = 1.30$, $p = 0.264$
3N	2-way ANOVA	Male x Female	Prepulse inhibition	Sex (male vs female) × Genotype (Wistar vs msP)	$^{@}$Sex: $F_{(1,26)} = 5.61$, $p = 0.025$ Genotype: $F_{(1,26)} = 8.79$, $p = 0.006$ Sex × Genotype: $F_{(1,26)} = 0.02$, $p = 0.889$
3O	3-way ANOVA	Male x Female	80-105 dB	Sex (male vs female) × Genotype (Wistar vs msP)	$^{@@@}$Sex: $F_{(1,26)} = 20.02$, $p = 0.0001$ Intensity: $F_{(5,130)} = 53.99$, $p = 0.001$ Sex × Intensity: $F_{(5,130)} = 12.66$, $p = 0.0001$ Genotype × Intensity: $F_{(5,130)} = 3.36$, $p = 0.007$ Sex × Genotype × Intensity: $F_{(5,130)} = 0.51$, $p = 0.767$

Note: Significant changes are reflected as $^{@}p \leq 0.05$, $^{@@}p \leq 0.01$, $^{@@@}p \leq 0.001$.