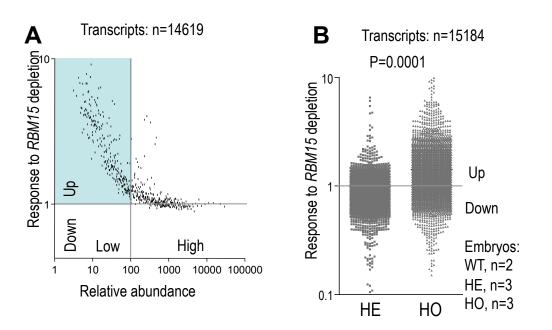
Supplemental Figure Legend

Figure 1. A, Embryos at E11.5 were analyzed on mRNA microarrays, leading to high confidence detection of 33167 transcripts. Values corresponding to RefSeq-annotated transcripts (n=14619. for complete datasets see http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE11785) are presented. Plotted on the X-axis (*Relative abundance*) are the log levels of each transcript (raw intensity units), averaged over WT and HE embryos (n=5). Plotted on the Y-axis (Response to *RBM15 depletion*) are log intensity ratios that represent, for each transcript, its level found in a typical HO embryo, divided by its Relative abundance value. Data were subjected to pruning, so that each symbol on the plot represents 20 transcripts. *Down* and Up, the down and upregulated transcripts in HO embryo. Low and High, the low and high abundance transcripts, arbitrarily defined. B. For each low abundance transcript, its average level obtained in HE (n=3) or HO (n=3) embryos was normalized to that in WT (n=2) and plotted on the Y-axis (Response to RBM15 depletion). These values are significantly different in HE and HO animals (n=15184, P=0.0001, α =0.05, Mann-Whitney test). Similar results were obtained when studying the RBM15^{XK135} allele in mice with different genetic backgrounds (not shown). C, The top transcript categories, according to Molecular Function (PANTHER classification system. http://www.pantherdb.org) that are nonrandomly represented (α =0.05, Mann-Whitney test) in HO as compared to HE embryos. For each RefSeq-annotated transcript (n=14619), we divided its average level in HO embryos (n=3) by that in HE (n=3), and analyzed these ratios using the PANTHER expression tools online.

Supplementary Figure 1



С

Molecular Function	number	P-value	Regulation
G-protein coupled receptor	589	2.00E-12	up
Nucleic acid binding	1682	7.60E-11	down
Ribonucleoprotein	57	6.38E-08	down
Ribosomal protein	142	7.88E-08	down
mRNA splicing factor	69	2.53E-06	down
mRNA processing factor	96	1.63E-05	down