| **Table S1. Genes that are differentially expressed in *Nkx2.9*-deficient mouse embryos** | | | |
|---|---|---|---|
| **Fold change** | **Regulation** | **Gene description** | **GenBank** |
| 10.5 | Up | inactive X specific transcripts | BC051222 |
| 4.6 | Down | eukaryotic translation initiation factor 2, subunit 3, structural gene Y-linked | BC043656 |
| 4.3 | Down | jumonji, AT rich interactive domain 1D (Rbp2 like) | AF127244 |
| 3.7 | Down | DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked | BC021453 |
| 3.6 | Down | ubiquitously transcribed tetratricopeptide repeat gene, Y chromosome | AF057367 |
| 2.9 | Down | homeo box C8 | X07646 |
| 2.9 | Down | RIKEN cDNA 4922502B01 gene | AK013705 |
| 2.4 | Down | homeo box C6 | X16511 |
| 2.4 | Down | calbindin-28K | M21531 |
| 2.3 | Down | homeo box D8 | NM_008276.2 |
| 2.2 | Down | neuromedin S | AB164466 |
| 2.1 | Up | forkhead box D1 | L38607 |
| 2.0 | Down | otoraplin | AJ243939 |
| 2.0 | Down | diacylglycerol kinase kappa | BC075627 |
| 2.0 | Down | homeo box B9 | BC100743 |
| 1.9 | Down | carbonic anhydrase 10 | AB080741 |
| 1.9 | Down | V-set and transmembrane domain containing 2A | BC027127 |
| 1.9 | Up | Tex17 | AF285579 |
| 1.9 | Down | Riken cDNA C130021I20 gene | AK147796 |
| 1.9 | Down | homeo box A6 | BC119105 |
| 1.9 | Down | protein tyrosine phosphatase, non-receptor type 3 | NM_011207.2 |
| 1.9 | Down | MACRO domain containing 2 | NC_000068.6 |
| 1.8 | Up | SLIT and NTRK-like family, member 6 | BC145927 |
| 1.8 | Up | solute carrier family 38, member 4 | AY027919 |
| 1.8 | Down | dehydrogenase/reductase (SDR family) member 3 | BC010972 |
| 1.8 | Down | neurotrophin 3 | BC065785 |
| 1.8 | Down | latexin | D88769 |
| 1.8 | Down | RIKEN cDNA 6430550H21 gene | BC062956 |
| 1.8 | Up | decorin | BC132521 |
| 1.8 | Down | LIM domain binding 2 | U89489 |
| 1.8 | Down | MAM domain containing glycosylphosphatidylinositol anchor 2 | AY371925 |
| 1.8 | Down | protein tyrosine phosphatase, non-receptor type 3 | NM_011207.2 |
| 1.8 | Down | cadherin 7, type 2 | BC083189 |
| 1.8 | Up | wingless-related MMTV integration site 5A | BC018425 |
| 1.7 | Down | hemicentin 1 | NM_001024720.3 |

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| 1.7 | Down | CUB and Sushi multiple domains 3 | NM_001081391.2 |
| 1.7 | Down | visinin-like 1 | AY101375 |
| 1.7 | Down | leucine rich repeat containing 4C | BC094588 |
| 1.7 | Down | cadherin 9 | NM_009869.1 |
| 1.7 | Down | MACRO domain containing 2 | NC_000068.6 |
| **1.7** | **Down** | **Adamts3** | **NM_177872.2** |
| 1.7 | Down | SLIT and NTRK-like family, member 2 | BC111888 |
| 1.7 | Down | protein phosphatase 1, regulatory (inhibitor) subunit 1C | BC120706 |
| 1.7 | Down | metallophosphoesterase domain containing 2 | BC020182 |
| 1.7 | Down | aldehyde dehydrogenase family 1, subfamily A2 | BC075704 |
| 1.7 | Down | CUB and Sushi multiple domains 3 | NM_001081391.2 |
| 1.7 | Up | metallothionein 2 | BC031758 |
| 1.7 | Down | tachykinin 1 | D17584 |
| **1.7** | **Down** | **roundabout homolog 2 (Drosophila)** | **DQ533876** |
| 1.7 | Up | gene model 784, (NCBI) | DQ192038\|BC076625 |
| 1.6 | Down | KH domain containing, RNA binding, signal transduction associated 2 | BC132117 |
| 1.6 | Up | meiotic nuclear divisions 1 homolog (S. cerevisiae) | BC027741 |
| 1.6 | Down | zinc finger protein 804A | BC035535 |
| 1.6 | Up | RIKEN cDNA 2610301F02 gene | AK011952.1 |
| 1.6 | Up | vitronectin | BC012690 |
| 1.6 | Up | RIKEN cDNA 3100002J23 gene | BC117741\|BC126964\|BC094630 |
| 1.6 | Down | SLIT and NTRK-like family, member 2 | AK141924 |
| 1.6 | Down | neuritin 1 | BC035531 |
| 1.6 | Down | PNMA-like 2 | NM_001099636.2 |
| 1.6 | Up | small nucleolar RNA, C/D box 16A | AF357363 |
| 1.6 | Down | solute carrier family 17 (Na-dependent inorganic phosphate cotransporter), member 6 | BC038375 |
| 1.6 | Up | versican | D16263 |
| 1.6 | Up | chemokine (C-X-C motif) ligand 12 | D43804 |
| 1.6 | Down | synaptic vesicle glycoprotein 2c | BC132111\|U24700\|AK173092 |
| 1.6 | Down | glutamate receptor, ionotropic, AMPA1 (alpha 1) | BC056397 |
| 1.6 | Up | sulfatase 1 | AY101178 |
| 1.6 | Up | myeloblastosis oncogene-like 1 | L35261 |
| 1.6 | Up | RIKEN cDNA 1810011O10 gene | BC016562 |
| 1.6 | Down | potassium voltage-gated channel, Shal-related family, member 2 | AB045326 |
| 1.6 | Down | transmembrane protein 108 | BC052085 |
| 1.6 | Down | ubiquitin specific peptidase 29 | AF229257 |
| 1.6 | Up | dopa decarboxylase | AF071068 |

Genes exhibiting a fold change greater than 1.5 in *Nkx2.9* null mice as compared with WT littermates.