S1 Table. Gene lists used for gene enrichment analysis for selection of genes important for differentiation of the C17.2 cell line.

| Gene set enrichment analysis list using Gene set enrichment analysis http://software.broadinstitute.org/gsea/index.jsp |
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| 1. LEIN_OLIGODENDROCYTE_MARKERS http://www.broadinstitute.org/gsea/msigdb/cards/LEIN_OLIGODENDROCYTE_MARKERS.html |
| 2. GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP http://www.broadinstitute.org/gsea/msigdb/cards/GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP |
| 3. GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_DN http://www.broadinstitute.org/gsea/msigdb/cards/GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_DN.html |
| 4. LEIN_ASTROCYTE_MARKERS http://www.broadinstitute.org/gsea/msigdb/cards/LEIN_ASTROCYTE_MARKERS.html |
| 5. CAHOY_ASTROCYTIC http://www.broadinstitute.org/gsea/msigdb/cards/CAHOY_ASTROCYTIC.html |
| 6. LEIN_NEURON_MARKERS http://www.broadinstitute.org/gsea/msigdb/cards/LEIN_NEURON_MARKERS.html |
| 7. CAHOY_NEURONAL http://www.broadinstitute.org/gsea/msigdb/cards/CAHOY_NEURONAL.html |
| 8. LEIN_LOCALIZED_TO_DISTAL_AND_PROXIMAL_DENDRITES http://www.broadinstitute.org/gsea/msigdb/cards/LEIN_LOCALIZED_TO_DISTAL_AND_PROXIMAL_DENDRITES.html |
| 9. GO_SYNAPSE http://software.broadinstitute.org/gsea/msigdb/cards/GO_SYNAPSE.html |
| 10. LEIN_LOCALIZED_TO_PROXIMAL_DENDRITES http://www.broadinstitute.org/gsea/msigdb/cards/LEIN_LOCALIZED_TO_PROXIMAL_DENDRITES.html |
| 11. WONG_ADULT_TISSUE_STEM_MODULE http://software.broadinstitute.org/gsea/msigdb/cards/WONG_ADULT_TISSUE_STEM_MODULE.html |
| 12. REACTOME_NEURONAL_SYSTEM https://bioinfo.uth.edu/SZGR1/showGenesByPathway.do?pathway=p874 |
| 13. LEIN_MIDBRAIN_MARKERS http://software.broadinstitute.org/gsea/msigdb/cards/LEIN_MIDBRAIN_MARKERS.html |
| 14. NEUROGENESIS http://software.broadinstitute.org/gsea/msigdb/cards/NEUROGENESIS.html |
| 15. AXON http://software.broadinstitute.org/gsea/msigdb/cards/AXON.html |
| 16. CAHOY_OLIGODENDROCUTIC http://software.broadinstitute.org/gsea/msigdb/cards/CAHOY_OLIGODENDROCUTIC.html |
| 17. LEIN_CEREBELLUM_MARKERS http://software.broadinstitute.org/gsea/msigdb/cards/LEIN_CEREBELLUM_MARKERS.html |
| 18. ESC_V6.5_UP_EARLY.V1_UP http://software.broadinstitute.org/gsea/msigdb/cards/ESC_JL_UP_EARLY.V1_UP.html |
| 19. MATZUK_EMBRYONIC_GERM_CELL http://software.broadinstitute.org/gsea/msigdb/cards/MATZUK_EMBRYONIC_GERM_CELL.html |
| 20. AXONOGENESIS http://software.broadinstitute.org/gsea/msigdb/cards/AXONOGENESIS.html |