

**Additional file 5. Genes in over-represented GO terms under Cellular Component**

organelle GO:0043226

AR|ARID1B|ASCL1|ATXN1|ATXN2|ATXN3|ATXN7|BMP2K|BRD4|CACNA1A|CIZ1|CREBBP|DCP1B|EP400|FOXP2|HD|MAML2|MAML3|MED12|MEF2A|MLL2|NCOA3|NCOA6|NCOR2|NFAT5|PAXIP1|PCQAP|PHC1|PHLDA1|POLG|POU3F2|POU6F2|PRDM10|RAI1|RUNX2|SATB1|SMARCA2|ST6GALNAC5|TBP|TFEB|THAP11|VEZF1|ZNF384

membrane-bound organelle GO:0043227

AR|ARID1B|ASCL1|ATXN1|ATXN2|ATXN3|ATXN7|BMP2K|BRD4|CACNA1A|CIZ1|CREBBP|DCP1B|EP400|FOXP2|HD|MAML2|MAML3|MED12|MEF2A|MLL2|NCOA3|NCOA6|NCOR2|NFAT5|PAXIP1|PCQAP|PHC1|PHLDA1|POLG|POU3F2|POU6F2|PRDM10|RAI1|RUNX2|SATB1|SMARCA2|ST6GALNAC5|TBP|TFEB|THAP11|VEZF1|ZNF384

intracellular GO:0005622

AR|ARID1B|ARID3B|ASCL1|ATXN1|ATXN2|ATXN3|ATXN7|BMP2K|BRD4|CACNA1A|CHERP|CIZ1|CREBBP|DCP1B|EP400|FOXP2|HD|MAGI1|MAML2|MAML3|MED12|MEF2A|MLL2|NCOA3|NCOA6|NCOR2|NFAT5|NUMBL|PAXIP1|PCQAP|PHC1|PHLDA1|POLG|POU3F2|POU6F2|PRDM10|RAI1|RUNX2|SATB1|SMARCA2|ST6GALNAC5|TBP|TFEB|THAP11|VEZF1|ZNF384

intracellular organelle GO:0043229

AR|ARID1B|ASCL1|ATXN1|ATXN2|ATXN3|ATXN7|BMP2K|BRD4|CACNA1A|CIZ1|CREBBP|DCP1B|EP400|FOXP2|HD|MAML2|MAML3|MED12|MEF2A|MLL2|NCOA3|NCOA6|NCOR2|NFAT5|PAXIP1|PCQAP|PHC1|PHLDA1|POLG|POU3F2|POU6F2|PRDM10|RAI1|RUNX2|SATB1|SMARCA2|ST6GALNAC5|TBP|TFEB|THAP11|VEZF1|ZNF384

intracellular membrane-bound organelle GO:0043231

AR|ARID1B|ASCL1|ATXN1|ATXN2|ATXN3|ATXN7|BMP2K|BRD4|CACNA1A|CIZ1|CREBBP|DCP1B|EP400|FOXP2|HD|MAML2|MAML3|MED12|MEF2A|MLL2|NCOA3|NCOA6|NCOR2|NFAT5|PAXIP1|PCQAP|PHC1|PHLDA1|POLG|POU3F2|POU6F2|PRDM10|RAI1|RUNX2|SATB1|SMARCA2|ST6GALNAC5|TBP|TFEB|THAP11|VEZF1|ZNF384

nucleus GO:0005634

AR|ARID1B|ASCL1|ATXN1|ATXN2|ATXN3|ATXN7|BMP2K|BRD4|CACNA1A|CIZ1|CREBBP|DCP1B|EP400|FOXP2|HD|MAML2|MAML3|MED12|MEF2A|MLL2|NCOA3|NCOA6|NCOR2|NFAT5|PAXIP1|PCQAP|PHC1|PHLDA1|POU3F2|POU6F2|PRDM10|RAI1|RUNX2|SATB1|SMARCA2|TBP|TFEB|THAP11|VEZF1|ZNF384

nucleoplasm GO:0005654

ARID1B|ATXN3|CREBBP|MED12|NCOA6|NFAT5|PHC1|POU3F2|SMARCA2|TBP|TFEB