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|  | **lncRNA**  **(p-value)** | **Homer motifs** | **JASPAR motifs** | **Score** | **Function description** |
| 1 | FOXCUT  3.6e-3 | AACCAVTTHDCG | TFCP2 | 0.64 | TF binds the alpha-globin promoter and activates transcription of the alpha-globin gene. |
| TCCTATCACACR | MEIS2 | 0.62 | Homeobox protein belonging to the TALE family of homeodomain-containing proteins. |
| TTTTHAAAGGGG | CHR | 0.67 | A member of the AAA ATPase family, a large group of ATPases associated with diverse cellular activities. |
| ARTGGTTGTWGA | FOXJ2 | 0.58 | Diseases associated with FOXJ2 include Cardiomyopathy, Familial Hypertrophic, 3. |
| GCAATCTCGC | IRF4 | 0.66 | The IRF (interferon regulatory factor) family, characterized by a unique tryptophan pentad repeat DNA-binding domain. |
| 2 | ANCR  1.1e-3 | AGGGTGACAG | SPZ1 | 0.80 | A bHLH-zip TF which functions in the mitogen-activated protein kinase (MAPK) signaling pathway. |
| GGTATCTTAC | GATA5 | 0.64 | TF that contains two GATA-type zinc fingers bind to hepatocyte nuclear factor-1alpha (HNF-1alpha) |
| CTCATAGGAG | GCM1 | 0.65 | DNA-binding protein with a gcm-motif (glial cell missing motif). A homolog of the Drosophila glial cells missing gene. |
| TAAGTGAAAG | PRDM1 | 0.86 | Acts as a repressor of beta-interferon gene expression bind specifically to the PRDI of the beta-IFN gene promoter. |
| CTTTTGGAAC | CHR | 0.65 | A member of the AAA ATPase family, a large group of ATPases associated with diverse cellular activities. |
| 3 | 250-280  2.2e-4 | WYTRTCTTTGCG | RXR | 0.61 | Nuclear receptors that mediate the biological effects of retinoids by their involvement in retinoic acid-mediated gene activation. |
| TCTTACGG | ELK1 | 0.71 | A member of the Ets family of transcription factors and of the ternary complex factor (TCF) subfamily. |
| GGCAAGGA | SD | 0.76 | A membrane transporter that exports free sialic acids that have been cleaved off of cell surface lipids and lysosomes proteins. |
| GAGGTATGTT | TEAD1 | 0.70 | A ubiquitous transcriptional enhancer factor, a member of the TEA/ATTS domain family. |
| TGCCGGGAGCGT | POL | 0.64 | The protein encoded by this gene is the catalytic component of RNA polymerase III, which synthesizes small RNAs. |
| 4 | HOXD-AS1  6.1e-3 | CTCGAGTAGG | PB0114 | 0.63 | The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. |
| GCCCCCTGCA | PB0076 | 0.74 | This gene encodes a transmembrane protein containing leucine-rich repeats and immunoglobulin-like domains. |
| ACGYMYATKYCC | GFY | 0.59 | GFY (Golgi Associated Olfactory Signaling Regulator) is a Protein-Coding gene. |
| AGCGGGTT | PH | 0.68 | An enzyme involved in catalyzing the conversion of angiotensin I into a physiologically active peptide angiotensin II. |
| AGGCGCCGCGCC | SP1 | 0.69 | A zinc finger TF that binds to GC-rich motifs of many promoters, involved in many cellular processes. |
| 5 | HOTAIR  5e-6 | TGGCGCAGCGCG | PB | 0.67 | Regulates the organization, dimensions, and signaling capacities of the actin filament-rich, microvillus-type specializations. |
| GTACAACTTT | PB | 0.66 | A beta tubulin protein, a dimer with alpha tubulin and acts as a structural component of microtubules. |
| CMTSTGTCWCYK | NeuroG2 | 0.66 | A neural-specific basic helix-loop-helix (bHLH) TF that can specify a neuronal fate on ectodermal cells. |
| GTGATCCATT | RHOXF1 | 0.68 | A member of the PEPP subfamily of paired-like homoebox genes, a TF that may play a role in human reproduction. |
| GGTMGRRGTGMW | TBX20 | 0.58 | This gene encodes a T-box family member, involved in the regulation of developmental processes. |