

Supplementary Table 1: The 59 common terms found in all three GOLink terms lists (all_list, query_list and parchild_list) using the query term ‘regulation of gene expression’ (GO:0010468) and applying the evidence code filter “!IEA” and database filter “UniProtKB”:

Namespace	GO_ID	GO_Name
cellular_component	GO:0005634	nucleus
biological_process	GO:0006355	regulation of transcription, DNA-dependent
biological_process	GO:0045893	positive regulation of transcription, DNA-dependent
molecular_function	GO:0003700	sequence-specific DNA binding transcription factor activity
biological_process	GO:0045944	positive regulation of transcription from RNA polymerase II promoter
biological_process	GO:0045892	negative regulation of transcription, DNA-dependent
cellular_component	GO:0005737	cytoplasm
molecular_function	GO:0005515	protein binding
biological_process	GO:0000122	negative regulation of transcription from RNA polymerase II promoter
molecular_function	GO:0003677	DNA binding
cellular_component	GO:0005654	nucleoplasm
cellular_component	GO:0005829	cytosol
biological_process	GO:0006357	regulation of transcription from RNA polymerase II promoter
cellular_component	GO:0005730	nucleolus
molecular_function	GO:0008134	transcription factor binding
molecular_function	GO:0043565	sequence-specific DNA binding
cellular_component	GO:0005667	transcription factor complex
molecular_function	GO:0003713	transcription coactivator activity
molecular_function	GO:0044212	transcription regulatory region DNA binding
cellular_component	GO:0005615	extracellular space
biological_process	GO:0010628	positive regulation of gene expression
cellular_component	GO:0005886	plasma membrane
molecular_function	GO:0042803	protein homodimerization activity
molecular_function	GO:0003705	RNA polymerase II distal enhancer sequence-specific DNA binding transcription factor activity
molecular_function	GO:0003714	transcription corepressor activity
cellular_component	GO:0048471	perinuclear region of cytoplasm
molecular_function	GO:0042802	identical protein binding

molecular_function	GO:0008270	zinc ion binding
molecular_function	GO:0046982	protein heterodimerization activity
cellular_component	GO:0043234	protein complex
cellular_component	GO:0005576	extracellular region
biological_process	GO:0051091	positive regulation of sequence-specific DNA binding transcription factor activity
cellular_component	GO:0005794	Golgi apparatus
biological_process	GO:0010629	negative regulation of gene expression
biological_process	GO:0043433	negative regulation of sequence-specific DNA binding transcription factor activity
cellular_component	GO:0005887	integral to plasma membrane
molecular_function	GO:0042393	histone binding
biological_process	GO:0010468	regulation of gene expression
molecular_function	GO:0008201	heparin binding
molecular_function	GO:0008022	protein C-terminus binding
molecular_function	GO:0004879	ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity
molecular_function	GO:0001071	nucleic acid binding transcription factor activity
cellular_component	GO:0016021	integral to membrane
molecular_function	GO:0046983	protein dimerization activity
molecular_function	GO:0047485	protein N-terminus binding
cellular_component	GO:0000785	chromatin
molecular_function	GO:0035035	histone acetyltransferase binding
biological_process	GO:0061418	regulation of transcription from RNA polymerase II promoter in response to hypoxia
biological_process	GO:0000083	regulation of transcription involved in G1/S phase of mitotic cell cycle
cellular_component	GO:0005635	nuclear envelope
cellular_component	GO:0005618	cell wall
molecular_function	GO:0035198	miRNA binding
molecular_function	GO:0035257	nuclear hormone receptor binding
cellular_component	GO:0031519	PcG protein complex
molecular_function	GO:0020037	heme binding
cellular_component	GO:0035102	PRC1 complex
cellular_component	GO:0044428	nuclear part

cellular_component	GO:0015030	Cajal body
biological_process	GO:0060965	negative regulation of gene silencing by miRNA