

**Supplementary File 14: Compilation of computationally detected putative binding sites for transcription factors (TFs) in the promoter and intron regions of the genes for human Gal-1, -3 and -8.** The analyzed regions were -2000 to +97 for Gal-1, -2500 for Gal-3 and -2500 for Gal-8 (promoter regions) and the sequences of the introns of the genes of Gal-1 (3 introns), -3 (5 introns) and -8 (9 introns). A list of all detected TFs for either Gal-1 or Gal-3 was published previously (Toegel et al., 2016; Weinmann et al., 2016). The putative binding sites were compared regarding to their shared or specific occurrence in the promoter and intron regions of the galectins.

	Putative binding sites common for Gal-1, -3 and -8
promoter	ACAAT, AP1, BARBIE, BCL6, BRIGHT, BRN2, BRN3, BRN5, BSX, CDP, CHOP, CREB2, CREL, CRX, CSRN1, CTCF, DLX1, DLX3, DREAM, E2F, E2F1, E2F4, EKLF, EN1, FAST1, GATA1, GATA3, GC, GCM1, GFI1, GSH1, GSH2, HHEX, HIC1, HMGY, HMX3, HNF1, HOXB9, HOXC13, HOXC4, HOXC9, HSF2, IK3, IR2_NGRE, IRF2, ISL2, JUNB, KKL, KLF7, LEF1, LHX3, LRRFIP1, MEF2, MEL1, MSX, MTBF, MYBL1, MZF1, NANOG, NF1, NFAT, NFAT5, NFY, NKX12, NKX25, NKX31, NKX61, NMP4, OLF1, P53, PAX3, PAX6, PCE1, PHOX2, PPARG, PRDM1, PSE, PUR $\alpha$ , S8, SMARCA3, SOX3, SP1, SPI1, SREBP, SRF, STAT, TCFAP2A, VMYB, XBOX, YB1, ZBED4, ZBP89, ZBTB3, ZF5, ZFP410, ZNF282, ZNF300
(introns)	(AARE, AHRARNT, AIRE, AML1, AML2, AP1, AP2, AP4, ARID5A, ARNTL, ATBF1, ATF, ATOH1, BARHL1, BCL6, BKLF, BLIMP1, BNC, BRIGHT, BRN2, BRN3, BRN4, BRN5, BSX, BTEB3, CAAT, CARF, CART1, CDP, CDX1, CDX2, CEBP, CEBPE_ATF4, CHOP, CHR, CLEAR, CMYB, COUP, CP2, CREB, CREL, CRX, CSRN1, CTCF, DBP, DEC1, DEC2, $\delta$ EF1, DLX2, DLX3, DLX4, DMP1, DMRT3, DREAM, DUX4, E2F, E2F3, E2F4, E2F7, E4F, EBF1, EGR1, EGR2, EKLF, ELK1, ER, ESRRA, ESRRB, ETV1, EVI1,, EVX1, FAST1, FHXB, FOSL1, FOXO1, FOXP1_ES, FREAC7, FTF, GABP, GATA1, GATA3, GBX1, GC, GCM1, GFI1, GKL, GLIS2, GLIS3, GRHL1, GRHL2, GRHL3, HAS, HBP1, HDBP1_2, HEN1, HIC1, HMBOX, HMGY, HMX2, HMX3, HNF1, HNF3, HNF6, HOMEZ, HOX1-3, HOXA3, HOXB3, HOXB4, HOXB5, HOXC8, HOXC9, HOXC13, HOXD10, HSF1, HSF2, IK1, IK2, IK3, INSM1, IPF1, IR1_NGRE, IRF2, IRF4, ISL1, ISL2, JARID2, JUNB, KKL, KLF2, KLF6, KLF7, KLF12, LACTOFERRIN, LBX2, LEF1, LHX2, LHX4, LHX9, LRRFIP1, LTSM, LYF1, LYL1_E12, MARE, MAZ, MAZR, MEIS1, MEL1, MESP1_2, MIT, MIXL1, MIZ1, MIZF, MOK2, MSX2, MSX3, MTBF, MYBL1, MYOD, MYOGENIN, MYRF, MYT1, MZF1, NACA1, NANOG, NBRE, NEUROG, NF1, NFAT5, NFkB, NFkB50, NFY, NGN_NEUROD, NKX11, NKX12, NKX25, NKX26, NKX31, NKX61, NKX63, NM23, NMP4, NOBOX, NR2F6, NRL, NRSF, NXF_ARNT, OC2, OCT1, OCT3_4, OLF1, OLIG2, OVOL1, P53, PARAXIS, PAX3, PAX4, PAX4_PD, PAX5, PAX6, PAX6_HD, PBX1_MEIS1, PBX3, PCE1, PDEF, PEA3, PHOX2, PIT1, PLAG1, PLAGL1, PLZF, PNR, POU2F3, POU6F2, PPARG, PRDM1, PRDM14, PROP1, PUR $\alpha$ , RAR_RXR, RAX, RBPJK, REV-ERBA, RFX4, RORA, RP58, RREB1, S8, SALL1, SALL2, SATB1, SF1, SIX2, SIX3, SMAD3, SMAD4, SMARCA3, SOX1, SOX5, SOX7, SOX9, SOX15, SP1, SP2, SP4, SPI1, SPZ1, SREBP, SRF, SRY, STAT3, STAT5A, STAT5B, SZF1, TAL1_E2A, TAL1 $\alpha$ E47, TCF2, TCFAP2A, TCFAP2B, TCFCP2L1, TCFE2A, TEF, TEF1, TH1E47, THRB, TLX1, TST1, VAX2, VBP, VDR_RXR, VERBA, VMYB, WHN, WT1, XBOX, XFD2, YB1, YY1, YY2, ZBED4, ZBP89, ZBTB3, ZBTB7, ZF5, ZFP410, ZFP57, ZFP652, ZFX, ZIC2, ZIC2, ZIC3, ZKSCAN3, ZNF217, ZNF219, ZNF263, ZNF282, ZNF300, ZNF35, ZNF354C, ZSCAN10)

	Putative binding sites common for Gal-1 and Gal-3
promoter	AHRARNT, ARE, ATBF1, ATF6, BKLf, CDX1, CHR, CP2, $\delta$ EF1, E2F3, EBF1, EGR1, FREAC7, GKLF, HDBP1_2, HFH1, HOXA5, HOXB8, HSF1, INSM1, KAISO, KLF6, LHX1, LHX2, LTSM, MAFA, MAZR, MESP1_2, MIZ1, MYOD, NBRE, NF $\kappa$ B65, NKX11, PIT1, PLAG1, PLAGL1, PREB, PROP1, SMAD3, SPZ1, STAT3, STAT5A, STAT6, TCF7L1, TLX1, VDR_RXR, ZBTB7, ZFX
(introns)	(CAR_RXR, CEBPB, CREB3L2, EGR3, GSH1, GSH2, HAND2_E12, HESX1, NFATC1, NKX29, NRF1, OTX2, PDX1, PTF1, SOX10, ZBED1, ZIC3)
	Putative binding sites common for Gal-1 and Gal-8
promoter	AARE, AP4, AREB6, CJUN_ATF2, CREB1, DLX5, E47, FOXP1, GLI3, GRE, GSC, HDGF, ISGF3G, KLF12, LBX2, MAZ, MEIS1, MIT, MOK2, MSX2, MYT1L, NACA1, NF $\kappa$ B, PAX4, PBX1, PLU1_JARID1B, PNR, RAX, RREB1, SOX5, SP4, SPT, TGIF, THR, VERBA, WT1, XBP1, YY1, ZKSCAN3, ZNF263
(introns)	(ACAAT, ARE, BACH2, CHREBP_MLX, CJUN_ATF2, CLOX, ESR2, ETS2, GABPA, GATA2, GLI3, GMEB2, HDGF, HES1, HFH3, HOXA5, HOXB7, HOXD1, LMX1B, MASH1, MEIS1A_HOXA9, NEUROD1, NF $\kappa$ B65, NUDR, PPAR_RXR, PRRX1, RFX1, RFX3, SCRT2, SOX2, TAXCREB, TCF12, TCF21, TCFAP2C)
	Putative binding sites common for Gal-3 and Gal-8
promoter	BACH2, BATF, BHLHA15, CDX2, CEBPB, CPHX, DBP, DMP1, E4BP4, ERG, ESRRA, ETV1, EVI1, FAC1, FTF, GATA2, GBX1, GF11B, GRHL2, HBP1, HLF, HMGA, HMX2, HNF3B, HNF4G, HNF6, HOXA3, HOXA9, HOXB7, HOXC8, HOXC9, IRF3, JARID2, MASH1, MEIS1, MEOX1, MSX1, MYT1, NKX63, NOBOX, OC2, OCT1, OCT3_4, OVOL1, PARAXIS, PAX7, PHOX2A, PLZF, POU3F3, REX1, RFX1, RFX4, RFX5, SATB1, SCX, SF1, SIX1, SOX6, SOX9, SOX21, SPIB, SRY, TEAD4, TEF TST1, VBP, ZFP652, ZNF217, ZTRE
(introns)	(ALX3, ALX4, AML3, AREB6, ATF6, BAPX1, BARBIE, BARX1, BARX2, BATF, BHLHA15, CABL, CDE, CEBPA, CEBPD, CEBPE, CEBPG, CKROX, CMYC, CPHX, CREB2, DLX1, DLX5, DMRT1, DMRT2, DMRT5, DMRT7, E47, E4BP4, ELF5, EMX2, EN1, EN2, EOMES, ERG, ERR, ESX1, ETV4, EVX2, FAC1, FOXA1, FOXJ1, FOXP1, FOXP2, FREAC2, FREAC3, GATA4, GBX2, GC_SBE, GF11B, GLI1, GRE, HELT, HFH1, HHEX, HIF1, HLF, HMGA, HNF4, HNF4A, HOX_PBX, HOXA4, HOXA9, HOXA10, HOXA13, HOXB4, HOXB6, HOXB8, HOXB9, HOXC4, HOXC6, HOXC10, HOXD3, HOXD8, HOXD13, HRE, IRF1, IRF3, IRF7, IRX3, IRX5, IRX6, ISGF3G, ISRE, ISX, KAISO, LHX1, LHX3, LHX6, LMX1A, MAFA, MAFB, MAFF, MAFK, MEF2, MEF3, MEIS1, MEOX1, MGA, MNT, MRF2, MSX, MTF-1, MYCMAX, MYF5, MYF6, NFAT, NFE2, NKX32, NMYC, OSNT, OSR1, OTX1, PAX2, PAX7, PAX8, PEG3, PEGASUS, PLU1_JARID1B, PRE, PREB, RARG, REX1, RFX5, RHOX6, RSRFC4, RTR, RU49, SCX, SIX1, SIX3, SL1, SOX3, SOX4, SOX6, SOX21, SOX30, SPIB, SPIC, SPT, STAF, STAT1, STAT5, STAT6, TAL1 $\beta$ E47, TBOX, TBX20, TCF11, TCF11MAFG, TCF7, TCF7L1, TCFAP2E, TEAD, TEF_HLF, TGIF, THAP1, THR, THRA, TIEG, TLX2, TP63, USF, VAX1, VMAF, XBP1, XFD1, XVENT2, ZBTB7, ZID, ZTRE)

	Putative binding sites specific for Gal-1
promoter	AML1, AP2, ARNTL, BTEB3, CART1, CHREBP_MLX, CKROX, CTCFL, DMRT1, EGR2, EGR3, ELK1, ER, ETV4, GABPA, GC_SBE, GLIS2, GZF1, HAS, HFH3, HIF1, HNF4, HOMEZ, HOXD13, KLF2, LACTOFERRIN, LHX4, LHX8, MEF3, MIZF, MTF-1, MYF5, MYOGENIN, NEUROD1, NKX29, NM23, NRF1, NRL, NXF_ARNT, OLIG2, PAX2, PEG3, PRDM5, PXR_RXR, RARA, RU49, RXR_RXR, SALL1,, SIX2, SOX10, SZF1, TAL1_E2A, TCFAP2E, WHN, ZIC2, ZIC3, ZNF219, ZNF354C
(introns)	(BRACH, ELF2, ESRRG, FLI, GLIS1, GTF3R4, HLXB9, HPF1, MEF3, MIF1, MRG1, PAX9, PPARA, PPARG, PRDM4, PRDM5, PRRX2, PSE, RARA, RXR_RXR, ZEC, ZNF143, ZNF202, ZNF76_143)
	Putative binding sites specific for Gal-3
promoter	AIRE, AML3, BARHL2, BARX1, BARX2, BRN4, CAAT, CDPCR3HD, CEBPE_ATF4, DICE, DLX2, DMRT3, DUX4, E2F7, EMX2, ESR2, ETS2, FHXB, FOXL2, FREAC2, GAGA, GATA4, GLIS3, GRHL3, HOXA10, HOXB3, HOXB4, HOXB13, HOXC10, HOXD8, HOXD10, IK1, IK2, IPF1, ISRE, ISX, LHX5, LHX9, MIXL1, MSX3, MYCMAX, NUDR, OSR1, PAX6_HD, PAX8, PEA3, POU6F2, PTX1, RARG, RBPJK, RORA, RP58, SL1, SOX1, SOX17, SOX4, SOX8, STAT1, TAL1 $\beta$ HEB, TCF11, TCF12, TCFCP2L1, TEF_HLF, THRA, TIEG, VSX1
(introns)	(BATF3, DMBX1, DMRT4, E2F2, E2F6, ETS1, HES7, HMX1, HNF4G, HOXA1, HOXA2, IRX2, JUNDM2, MEF2C, MEIS1B_HOXA9, MYBL2, NRF2, PBX1, PKNOX2, PROX1, PTX1, PXR_RXR, SIP1, SOX18, TWIST)
	Putative binding sites specific for Gal-8
promoter	ARID5A, ASCL2, BHLHB2, BLIMP1, CABL, CEBPE, CETS1P54, CLOX, CMYB, COUP, DMRT2, E2F2, ELF2, EN2, EOMES, FHXA, FOXJ1, FOXP1_ES, GRHL1, HEN1, HNF3, HNF4A, HOX_PBX, HOX1-3, HOXA2, HOXA9, HOXC5, HOXD3, IRF4, IRF7, ISL1, LMX1B, LYF1, MAFB, MAFK, MEF3, NFE2, OSNT, OTX2, PBX1_MEIS1, POU2F3, PRDM14, PRE, RAR_RXR, REV-ERBA, RFX2, RFX3, RXRA, SHOX2, SOX12, STAF, TCF11MAFG, TCFE2A, TEAD, TGIF2LX, USF1, XFD3, ZBTB7, ZEB1, ZNF35
(introns)	(AHR, ARNT, ASCL1, ASCL2, BACH1, BHLHB2, CDPCR3HD, CETS1P54, COUPTFII, CUX2, DICE, E2F1, ELF1, ETV3, FKHRL1, FOXL2, GAGA, GATA5, GSC, HFH2, HFH8, HOXA6, HOXC12, ILF1, LHX5, LHX8, MAX, MSX1, MYT1L, NFIB, NGFIC, NKX23, OBOX5, OSR2, OTP, PAX2, PBX_HOXA9, RFX2, RXRA, SHOX2, SIX4, SOX8, SOX12, SOX13, SOX14, SPDEF, TAL1 $\beta$ ITF2, TBX5, TBX6, TEAD4, TGIF2LX, TR2, TR2_TR4, TR4, VSX1, XFD3, ZBRK1, ZEB1)