

Promoter	Protein function	Organism	Induced by (strength)	Repressed by	Regulating sequence	DNA-binding target protein	Ref.
GAL1	galactose metabolism	<i>S. cerevisiae</i>	Galactose (1000x)	glucose	-390 to -255	Gal4	[71]
					-201 to -187	Mig1	[72]
GAL7	galactose metabolism	<i>S. cerevisiae</i>	Galactose (1000x)	glucose	-264 to -161	Gal4	[71]
		<i>K. lactis</i>	Galactose		No information		
GAL10	galactose metabolism	<i>S. cerevisiae</i>	Galactose (1000x)	glucose	-324 to -216	Gal4	[71]
	galactose metabolism	<i>C. maltosa</i>	Galactose		No information		
PIS1	phosphoinositol synthase	<i>S. cerevisiae</i>	galactose, hypoxia (2x), zinc depletion (2x)	(glycerol)	-149 to -138	Rox1 Gcr1	[73]
					-224 to -205	Ste12 Pho2	
					-184 to -149	Mcm1 (2x)	
LAC4	lactose metabolism	<i>K. lactis</i>	Lactose Galactose (100x)	-	-173, -235	RNA-Pol II	[74]
					-437 to -420 -673 to -656 -1088 to -1072	Lac9	
MAL1	maltase	<i>H. polymorpha</i>	maltose sucrose	glucose	No information available		[75]
MAL62	maltase	<i>S. cerevisiae</i>	maltose sucrose	glucose	-759 to -743	Mal63	[76]
							[11]
AGT1	alpha-glucoside transporter	brewing strains <i>S. cerevisiae</i> , <i>S. pastorianus</i>	maltose sucrose	glucose	divergent (strain dependent)	Mig1	[77]
						Malx3	
ICL1	isocitrat lyase	<i>P. pastoris</i>	ethanol (200x)	glucose	No information available		[78]
		<i>C. tropicalis</i>	ethanol	glucose	No information available		[79]
		<i>S. cerevisiae</i>	Ethanol (200x)	glucose	-397 to -388	Cat8, Sip4	[22] [80]
					-261 to -242 -96	URS RNA-Pol II	[80] [78]
FBP1	fructose-1,6-bisphosphatase	<i>S. cerevisiae</i>	glycerol, acetate, ethanol (10x)	glucose	-248 to -231	Hap2/3/4 (2x)	[81]
					No information	Cat8, Sip4	[22]
PCK1	PEP carboxykinase	<i>S. cerevisiae</i>	glycerol, acetate, ethanol (10x)	glucose	-480 to -438	Cat8, Sip4	[22] [81]
	PEP carboxykinase	<i>C. albicans</i>	succinate casamino acids	glucose	-320 to -123	Hap2/3/4 (2x)	[81]
					-444 to -108	Mig1 (3x)	[81]
GUT1	glycerol kinase	<i>S. cerevisiae</i>	glycerol, acetate, ethanol, oleate	glucose	-221 to -189	Adr1	[82]
					-319 to -309	Ino2/4	[82]

CYC1	cytochrome c	<i>S. cerevisiae</i>	O <sub>2</sub> (200x) lactat (5-10x)	glucose	No information available		[83]
ADH4	alcohol dehydrogenase	<i>K. lactis</i>	ethanol	-	-953 to -741	UAS	[84]
AOX1, 2	alcohol oxidase	<i>P. pastoris</i>	methanol	glucose	-414 to -171	Mxr1	[85] [86]
AUG1, 2	alcohol oxidase	<i>P. methanolica</i>	methanol	glucose	No information available		[85]
DAS1	dihydroxy-acetone-synthase	<i>P. pastoris</i>	methanol	glucose	-980 to -1	Mxr1	[85]
FDH	formate dehydrogenase	<i>H. polymorpha</i>	methanol	glucose	No information available		[85]
FLD1	formaldehyde dehydrogenase	<i>P. pastoris</i>	methanol methylamine choline	glucose	No information available		[85]
POX2	peroxisomal protein	<i>Y. lipolytica</i>	oleate	glucose	No information available		[87]
PEX8	Peroxisomal protein	<i>P. pastoris</i>	oleate methanol (3-5x)	glucose	-1000 to -1	Mxr1	[88] [89]
INU1	inulase	<i>K. marxianus</i>	Fructose, Inulin, Sucrose	glucose	-271 to -266	RNA-Pol II	[57]
					-163 to -153	Mig1	[59]

**Tab. 4.** Yeast promoters induced in dependence of carbon sources and their regulator elements