

Genes up-regulated in nmd strains

Systematic Name	Common Name
YDR364C	CDC40
YDR387C	
YDR318W	MCM21
YDR332W	
YDR421W	
YDR530C	APA2
YDR131C	
YDR126W	
YDR082W	STN1
YDR078C	
YDR147W	EKI1
YDR236C	FMN1
YDR285W	ZIP1
YDR160W	SSY1
YDR242W	AMD2
YEL072W	
YER024W	
YER081W	SER3
YEL016C	
YER041W	
YER076C	
YER065C	ICL1
YER101C	AST2
YER066W	
YEL074W	
YEL073C	
YEL048C	
YEL028W	
YEL030W	ECM10
YEL049W	PAU2
YEL063C	CAN1
YCL067C	HMLALPHA2
YCR020C	PET18
YCR102C	
YCL010C	
YBR295W	PCA1
YBR293W	
YBR301W	
YBR298C	MAL31
YCR100C	
YDL170W	UGA3
YDL154W	MSH5
YDL215C	GDH2
YDL197C	ASF2
YDL115C	
YDR007W	TRP1
YDR022C	CIS1
YDL109C	
YDR019C	GCV1

YCR089W	FIG2
YCR099C	
YCR098C	GIT1
YDL243C	AAD4
YDL204W	
YDL223C	
YDL231C	BRE4
YER115C	SPR6
YHL040C	ARN1
YHL042W	
YHL035C	
YHL037C	
YGR256W	GND2
YGR294W	
YGR168C	
YGR213C	RTA1
YGR289C	MAL11
YHL046C	
YIL167W	
YHR199C	
YIL176C	
YIL164C	NIT1
YIL165C	
YHR015W	MIP6
YHR157W	REC104
YHL047C	TAF1
YHL016C	DUR3
YHR156C	
YHR210C	
YHR204W	HTM1
YHR180W	
YHR218W	
YFL057C	
YFL020C	PAU5
YFL050C	ALR2
YFL055W	AGP3
YER188W	
YER187W-A	KHS1
YER104W	RTT105
YER103W	SSA4
YER185W	
YER184C	
YER180C	ISC10
YFR022W	
YGR043C	
YGR042W	
YGL063W	PUS2
YGR015C	
YGR040W	KSS1
YGR127W	
YGR154C	

YGR057C	LST7
YGR133W	PEX4
YGL243W	TAD1
YFR020W	
YFR026C	
YGL251C	HFM1
YGL193C	
YGL128C	
YGL259W	YPS5
YGL261C	
YIL120W	QDR1
YNL046W	
YNL008C	
YNL143C	
YNL158W	
YNL011C	
YNR059W	MNT4
YNR058W	BIO3
YNL014W	
YNL003C	PET8
YNL331C	AAD14
YNL335W	
YNL329C	PEX6
YNL279W	PRM1
YNL187W	
YNL142W	MEP2
YNL282W	POP3
YNL249C	MPA43
YOL165C	AAD15
YOL106W	
YOL163W	
YOL164W	
YOL112W	MSB4
YOR005C	DNL4
YOL009C	MDM12
YOL043C	NTG2
YOL055C	THI20
YNR076W	PAU6
YNR068C	
YOL153C	
YOL161C	
YOL162W	
YOL154W	
YOL158C	ENB1
YML116W	ATR1
YML099C	ARG81
YML107C	
YML005W	
YMR020W	FMS1
YML023C	
YML042W	CAT2

YLL018C-A	COX19
YLR461W	PAU4
YLR317W	
YLR363C	NMD4
YML133C	
YML002W	
YMR271C	URA10
YMR240C	CUS1
YMR232W	FUS2
YMR325W	
YMR316C-B	
YMR065W	KAR5
YMR068W	
YMR040W	
YMR023C	MSS1
YMR090W	
YMR182C	RGM1
YMR180C	CTL1
YMR114C	
YMR169C	ALD3
YOL014W	
YPL022W	RAD1
YPR012W	
YPL034W	
YPL047W	
YPR005C	HAL1
YPR168W	NUT2
YPR196W	
YPR085C	
YPR121W	THI22
YPL147W	PXA1
YPL148C	PPT2
YPL236C	
YPL214C	THI6
YPL149W	APG5
YPL095C	
YPL071C	
YPL164C	MLH3
YPL088W	
YBR043C	
YBR163W	DEM1
YBR008C	FLR1
YBR030W	
YBR184W	
YBR217W	APG12
YBR270C	
YBR197C	
YBR228W	
YPR194C	OPT2
YPR193C	HPA2
YBL109W	

YBL019W	APN2
YBL025W	RRN10
YBL060W	
YBL075C	SSA3
YOR203W	
YOR202W	HIS3
YOR152C	
YOR148C	SPP2
YOR192C	
YOR303W	CPA1
YOR302W	
YOR222W	ODC2
YOR304C-A	
YOR012W	
YOR009W	
YOL015W	
YOR019W	
YOR072W	
YOR128C	ADE2
YOR120W	GCY1
YOR059C	
YOR100C	CRC1
YOR328W	PDR10
YPL272C	
YPL277C	
YPL257W	
YPL258C	THI21
YOR380W	
YOR377W	ATF1
YOR358W	HAP5
YOR381W	FRE3
YOR363C	PIP2
YOR389W	
YKL222C	
YKL188C	PXA2
YKL220C	FRE2
YKL161C	
YFL063W	
YJR151C	
YJR149W	
YCR096C	A2
YKR097W	PCK1
YKR102W	FLO10
YKR091W	SRL3
YNR075W	COS10
YKL026C	GPX1
YKL098W	
YKR061W	KTR2
YKR069W	MET1
YKR104W	
YDR542W	

YKR009C	FOX2
YAR020C	PAU7
YJL213W	
YJL223C	PAU1
YJL221C	FSP2
YJL222W	VTH2
YJL185C	
YAL067C	SEO1
YAL037W	
YAL014C	
YJR108W	ABM1
YJR025C	BNA1
YJR039W	
YJR036C	HUL4
YJR155W	AAD10
YJR152W	DAL5
YJR159W	SOR1
YJL110C	GZF3
YJL057C	IKS1
YJL023C	PET130
YJL106W	IME2
YJR004C	SAG1
YJL004C	SYS1
YLR037C	
YLR031W	
YIR020C	
YIR029W	DAL2
YIR031C	DAL7
YIR043C	
YLR098C	CHA4
YLR097C	
YJR161C	COS5
YLL016W	SDC25
YLL033W	
YLR046C	
YLR016C	
YLR010C	
YIL009C-A	EST3
YLR233C	EST1
YLR227C	
YLR252W	
YLR251W	
YLR288C	MEC3
YIL107C	PFK26
YBR085C-A	
YLR263W	RED1
YIL028W	
YIL059C	
YLR123C	
YLR122C	
YLR165C	

YIR032C	DAL3
YIR039C	YPS6
YIR041W	
YLR156W	
YLR152C	
YLR174W	IDP2
YLR164W	
YIR042C	
YLL051C	FRE6
YLL067C	
YNR077C	
YLL060C	GTT2
YLL063C	AYT1
YLL064C	
YLL056C	
YLL052C	AQY2
YLL055W	
YKL201C	MNN4
YLL057C	
YJL216C	
YBR182C	SMP1
YAL069W	
YPR057W	BRR1
YKL005C	
YOL130W	ALR1
YBR208C	DUR1,2
YBR193C	MED8
YBR107C	IML3
YLR451W	LEU3
YAL028W	
YLR460C	
YBR050C	REG2
YAL063C	FLO9
YAL064W	
YAR023C	
YLR315W	
YLR318W	EST2
YLR266C	
YBL088C	TEL1
YAL002W	VPS8
YMR284W	YKU70
YMR294W	JNM1
YOR011W	AUS1
YLL053C	
YNL230C	ELA1
YKL149C	DBR1
YJR115W	
YNL179C	
YJR156C	THI11
YOR284W	
YOR305W	

YNL334C	SNO2
YNL257C	SIP3
YOR319W	HSH49
YMR234W	RNH1
YOR238W	
YOR162C	YRR1
YJR008W	
YPL156C	PRM4
YPL064C	
YMR135C	
YNL128W	TEP1
YMR064W	AEP1
YPL003W	ULA1
YPR070W	MED1
YKL017C	HCS1
YKR012C	
YMR168C	CEP3
YKL132C	RMA1
YLL042C	APG10
YKL224C	
YMR181C	
YLR085C	ARP6
YOL068C	HST1
YJR021C	REC107
YPL264C	
YDR543C	
YEL023C	
YEL006W	
YDR459C	
YDR534C	
YER028C	
YCR007C	
YER186C	
YDR004W	RAD57
YDR073W	SNF11
YDR109C	
YDL123W	
YDR391C	
YHL050C	
YDR206W	EBS1
YDR265W	PEX10
YJR162C	
YAL068C	
YHL026C	
YIL013C	PDR11
YIL089W	
YIL080W	
YIL066C	RNR3
YHR067W	
YHR150W	
YGL247W	

YGL256W	ADH4
YDR406W	PDR15
YFR005C	SAD1
YGL223C	
YGL051W	
YGR039W	
YGR066C	
YGL154C	LYS5
YGL156W	AMS1
YGR064W	
YBR253W	SRB6
YBR244W	GPX2
YDL239C	
YCL039W	
YCR020W-B	HTL1
YCL056C	
YCR037C	PHO87
YBR297W	MAL33
YBR284W	
YCR063W	
YDL241W	
YCR104W	PAU3
YFL054C	
YKL198C	PTK1
YBR168W	
YIR007W	
YFL027C	
YKR050W	TRK2
YER150W	SPI1
YOL155C	
YER108C	FLO8
YOL107W	
YOL108C	INO4
YCL016C	
YPR199C	ARR1
YKR004C	ECM9
YGR070W	ROM1
YLL025W	
YLR004C	
YNL314W	DAL82
YNL333W	SNZ2
YGR288W	MAL13
YBR020W	GAL1
YGR144W	THI4
YGR216C	GPI1
YLR036C	
YNL057W	
YLR125W	
YNL063W	
YNL270C	ALP1
YNL294C	

YGL096W	TOS8
YMR127C	SAS2
YIL071C	
YJL168C	SET2
YJL162C	
YJL126W	NIT2
YLR394W	CST9
YIL146C	ECM37
YOR313C	SPS4
YJL093C	TOK1
YDR005C	MAF1
YDR003W	
YLR284C	ECI1
YDR252W	BTT1
YDR275W	
YOR318C	
YDR008C	
YLR457C	NBP1
YDR336W	
YIR009W	MSL1
YPR068C	HOS1
YLR306W	UBC12
YKL168C	KKQ8
YPR066W	UBA3
YKL011C	CCE1
YIL116W	HIS5
YOR026W	BUB3
YEL041W	
YKL090W	
YLR173W	
YKL187C	
YIR019C	MUC1
YLR242C	ARV1
YOR111W	
YLR054C	
YLR035C	MLH2
YBR291C	CTP1
YBR116C	
YMR196W	
YMR211W	
YLR343W	
YLR352W	
YBR063C	
YLR273C	PIG1
YMR087W	
YHR095W	
YHR153C	SPO16
YIL003W	
YHR134W	WSS1
YHR129C	ARP1
YLR423C	APG17

YLR417W	VPS36
YMR096W	SNZ1
YLR130C	ZRT2
YIL166C	
YML098W	TAF19
YDR453C	
YDR479C	
YDR541C	
YJR153W	PGU1
YDR273W	
YOR278W	HEM4
YOL028C	YAP7
YER015W	FAA2
YPR153W	
YOR180C	DCI1
YPR071W	
YJR003C	
YJL058C	
YJL044C	GYP6
YPL151C	PRP46
YJL024C	APS3
YJR107W	
YPL167C	REV3
YGL004C	
YGR024C	
YNL254C	
YNL245C	
YLL004W	ORC3
YMR283C	RIT1
YLL003W	SF11
YMR262W	
YNL009W	IDP3
YPL066W	
YNL125C	ESBP6
YGL254W	FZF1
YNL034W	
YNL094W	

Description

Product

Member of the beta transducin family

involved in minichromosome maintenance

5',5'''-P-1,P-4-tetraphosphate phosphorylase II

involved in telomere length regulation

Ethanolamine Kinase

Riboflavin kinase

synaptonemal complex protein

regulator of transporters

putative amidase

3-phosphoglycerate dehydrogenase

isocitrate lyase

involved in targeting of plasma membrane [H⁺]ATPase

similar to Hsp70, involved in cell wall biogenesis

similar to members of the seripauperin (PAU) family

arginine permease

Mating type protein alpha-2

Transcription regulator

Alcohol dehydrogenase

Putative P-type Cu(2⁺)-transporting ATPase

Probable multidrug resistance protein

YKL224 c homolog

Maltose permease

zinc-finger transcription factor of the Zn(2)-Cys(6) binuclear cluster domain type

MutS homolog involved in chromosome exchange

NAD-dependent glutamate dehydrogenase

Anti-silencing protein, involved in transcription

n-(5'-phosphoribosyl)-anthranilate isomerase

involved in microtubule assembly

glycine cleavage T protein (T subunit of glycine decarboxylase complex)

predicted GPI-anchored cell wall protein

permease involved in the uptake of glycerophosphoinositol (GroPIs)
Hypothetical aryl-alcohol dehydrogenase

involved in sporulation

ABC transporter

6-phosphogluconate dehydrogenase

involved in 7-aminocholesterol resistance
Alpha-glucoside transporter; maltose permease

nitrilase

PolyA-binding protein
mRNA is induced early in meiosis
Triacetylfusarinine C transporter
Urea transporter

UDP-glucose-4-epimerase (GAL10, galE)
degradation lectin

gene in Y' repeat region

member of the seripauperin (PAU) family
(putative) ion transporter
Amino acid permease

Killer toxin
same phenotype as RTT101, 102, 103, 104
member of 70 kDa heat shock protein family

involved in meiosis, spore formation

pseudouridine synthase 2

MAP protein kinase homolog involved in pheromone signal transduction

involved in transport of nitrogen-regulated permeases
Member of ubiquitin-conjugating protein family
tRNA-specific adenosine deaminase 1 (TAD1); Tad1p/vscADAT1

C4 zinc finger DNA-binding protein of low sequence specificity in vitro; Probable 119 kD DNA/RNA helicase f

GPI-anchored aspartic protease

MFS-MDR transporter

mannosyltransferase (putative)
7,8-diamino-pelargonic acid aminotransferase (DAPA) aminotransferase

mitochondrial carrier protein family
Hypothetical aryl-alcohol dehydrogenase

Member of the AAA-protein family that includes NSFp and PEX1p
pheromone-regulated membrane protein

Ammonia transport protein
RNase P and RNase MRP subunit
Overexpression leads to increased levels of the lyase PDC1
Hypothetical aryl-alcohol dehydrogenase (AAD)

multicopy suppressor of bud emergence defect
ATP dependent DNA ligase
Mdm12p is a mitochondrial outer membrane protein. An Mdm12p homolog exists in *S. Pombe* which confers a
Endonuclease III-like glycosylase
THI for thiamine metabolism. Transcribed in the presence of low level of thiamine (10⁻⁸M) and turned off in the
Member of the seripauperin family

Enterobactin transporter
predicted protein is very hydrophobic, has many membrane-spanning regions, several potential glycosylation sites
zinc-finger transcription factor of the Zn(2)-Cys(6) binuclear cluster domain type

Multicopy suppressor of fenpropimorph resistance (fen2 mutant), shows similarity to *Candida albicans* corticos

Carnitine O-acetyltransferase, peroxisomal and mitochondrial

Cox19p (under characterization)
member of the seripauperin protein family

putative Upf1p-interacting protein

Orotate phosphoribosyltransferase 2
U2 snRNP protein
involved in cell fusion

coiled-coil membrane protein

putative mitochondrial GTPase

Putative transcriptional repressor with proline-rich zinc fingers
RNA triphosphatase

aldehyde dehydrogenase

UV endonuclease

polar 32k Da cytoplasmic protein
21 kD mediator subunit of RNA polymerase II holoenzyme

THI for thiamine metabolism. Transcribed in the presence of low level of thiamine (10⁻⁸M) and turned off in the
ABC family long-chain fatty acid transporter
Phosphopantetheine:protein transferase (PPTase)

TMP pyrophosphorylase, hydroxyethylthiazole kinase
involved in autophagy

MutL Homolog

Weak similarity to Pta1p (pre-tRNA processing protein)
Major Facilitator Transporter

involved in autophagy
Probable ATP/GTP-binding protein

peptide transporter
Histone acetyltransferase

AP endonuclease
Upstream activation factor subunit
has homology to the sec7 domain of gtp exchange factors
heat-inducible cytosolic member of the 70 kDa heat shock protein family

imidazoleglycerol-phosphate dehydratase

spliceosome-associated protein

Carbamoyl phosphate synthetase, arginine specific

mitochondrial 2-oxodicarboxylate transport protein

phosphoribosylamino-imidazole-carboxylase
Similar to mammalian aldo\keto reductases

mitochondrial carnitine transport protein
Putative ABC transporter highly similar to Pdr5p

THI for thiamine metabolism. Transcribed in the presence of low level of thiamine (10⁻⁸M) and turned off in the

Alcohol acetyltransferase
Component, along with Hap2p and Hap3p, of CCAAT-binding transcription factor
similar to FRE2
activator of peroxisome proliferation

peroxisomal ABC transporter 2
Ferric reductase
probable serine\threonine-specific protein kinase (EC 2.7.1.-)

Regulatory protein MATa2p (no known function); sequence is the same as the last 119 residues of MATalpha
phosphoenolpyruvate carboxylkinase
Protein with similarity to flocculation protein Flo1p
Suppressor of rad53 lethality
Protein with strong similarity to subtelomerically-encoded proteins such as Cos5p, Ybr302p, Cos3p, Cos1p, C
Glutathione peroxidase paralogue

putative mannosyltransferase; type 2 membrane protein
siroheme synthase

peroxisomal multifunctional beta-oxidation protein
similar to Pau3, member of Pau1 family

member of the seripauperin protein\gene family (see Gene_class PAU)
homology to maltase(alpha-D-glucosidase)
potential membrane glycoprotein with strong similarity to Vth1 and Pep1

putative permease

ABerrant Microtubules
3-hydroxyanthranilic acid dioxygenase

ubiquitin-protein ligase (E3)
Hypothetical aryl-alcohol dehydrogenase (AAD)
allantoate permease
sorbitol-induced sorbitol dehydrogenase
GATA zinc finger protein 3 homologous to Dal80 in structure and function
probable serine\threonine kinase
Nuclear gene encoding mitochondrial protein
Serine\Threonine protein kinase, positively regulated by IME1
alpha-agglutinin
Multicopy suppressor of ypt6 null mutation

allantoicase
Malate synthase 2

DNA-binding transcriptional activator or CHA1

Protein with similarity to members of the Ybr302p\Ycr007p\Cos8p\Cos9p family, coded from subtelomeric re
GDP\GTP exchange factor for Ras

181aa protein - 20.5 kD
involved in telomere length regulation

DNA damage checkpoint protein
6-Phosphofructose-2-kinase

Meiosis-specific protein involved in homologous chromosome synapsis and chiasmata formation\; localizes to

ureidoglycolate hydrolase
GPI-anchored aspartic protease

Cytosolic form of NADP-dependent isocitrate dehydrogenase

similar to FRE2

Glutathione transferase
transacetylase

Aqy2p, putative aquaporin, member of MIP family

involved in mannose metabolism

Probable DNA-binding transcription factor, Homolog to SRFVSL-2

Spliceosomal snRNP component

putative ion transporter

Urea amidolyase (contains urea carboxylase and allophanate hydrolase)

Stoichiometric member of mediator complex

weakly similar to chitin synthases, involved in chromosomal segregation and mitosis

zinc-finger transcription factor of the Zn(2)-Cys(6) binuclear cluster domain type

putative Glc7 regulatory subunit

putative Flo1p homolog

membrane protein

103 kD basic protein, catalytic subunit of telomerase

putative phosphatidylinositol kinase

Vps8p is a membrane-associated hydrophilic protein which contains a C-terminal cysteine-rich region that con
DNA binding protein

Coiled-coil domain protein required for proper nuclear migration during mitosis (but not during conjugation)

ABC (ATP-binding cassette) protein involved in Uptake of Sterols.

elongin A

debranching enzyme

Thiamine biosynthetic enzyme

Induced in stationary phase
Putative transcriptional activator
homolog of mammalian splicing factor/U2 snRNP protein
ribonuclease H

transcription factor

pheromone-regulated membrane protein

Putative protein tyrosine phosphatase
basic, hydrophilic protein of 59 kDa
Rub1p activating protein
Subunit 1 of the Mediator complex essential for transcriptional regulation
DNA helicase A

contains an N-terminal Zn₂Cys₆ type zinc finger domain, a C-terminal acidic domain and a putative coiled coil
probable foyl-polyglutamate synthetase
involved in autophagy; protein-conjugating enzyme involved in the Apg12p-Apg5p conjugation pathway

Actin-related protein
Homolog of SIR2
ds break formation complex subunit

RecA homolog (similar to DMC1, RAD51, and RAD55), interacts with Rad 55p by two-hybrid analysis
component of SWI/SNF global transcription activator complex

similar to Est1, which is a putative component of telomerase
C3HC4 zinc-binding integral peroxisomal membrane protein

Putative member of the ABC family of membrane transporters

Ty3B Gag-Pol protein. Gag processing produces capsid proteins. Pol is cleaved to produce protease, reverse
Ribonucleotide reductase (ribonucleoside-diphosphate reductase) large subunit

alcohol dehydrogenase isoenzyme IV
probable multidrug resistance transporter

aminoadipate-semialdehyde dehydrogenase small subunit (alpha-aminoadipate reductase)
vacuolar alpha mannosidase

transcription factor, part of SrbVMediator complex
Probable glutathione peroxidase (EC 1.11.1.9)

regulatory protein
high-temperature lethal

phosphate permease
MAL-activator protein

G10-like protein

similar to bovine alcohol dehydrogenase

probable serine/threonine-specific protein kinase (EC 2.7.1.-)

membrane protein\; low affinity potassium transport
similar to Sed1\; highly expressed in stationary phase

putative transcriptional activator of FLO1

basic helix-loop-helix (bHLH) protein

Putative transcription factor involved in arsenite and arsenate resistance
(putative) involved in cell wall biogenesis
Rho1 GDP/GTP exchange protein

positive regulator of allophanate inducible genes
member of the stationary phase-induced gene family
MAL-activator protein
galactokinase
component of the biosynthetic pathway producing the thiazole precursor of thiamine
involved in first step of GPI (N-acetylglucosaminylphosphatidylinositol) anchor synthesis

Basic amino acid permease

zinc-finger protein

transcription factor containing a SET domain

nitrilase superfamily member

required for synapsis

(putative) involved in cell wall biogenesis

sporulation-specific protein

outward-rectifier potassium channel

Mod5 protein sorting

Peroxisomal d3,d2-Enoyl-CoA Isomerase

negative regulator of RNA polymerase II

Nap1p binding protein

encodes YU2B, a component of yeast U2 snRNP

Similar to Hda1p, Rpd3p, Hos2p, and Hos3p

Ubiquitin-conjugating enzyme

probable serine/threonine-specific protein kinase (EC 2.7.1.-)

ubiquitin-like protein activating enzyme

cruciform cutting endonuclease

histidinol-phosphate aminotransferase

cell cycle checkpoint protein

cell surface flocculin with structure similar to serine/threonine-rich GPI-anchored cell wall proteins

similar to Nup120p and C.elegans R05H5.5 protein and Nup120p

MutL Homolog

citrate transporter in mitochondrial inner membrane

Probable phosphopantethein-binding protein

Protein similar to Gac1p, a putative type 1 protein phosphatase targeting subunit

sporulation protein

Weak suppressor of smt3 mutant

Centractin

involved in autophagy

involved in vacuolar protein targeting
encodes highly conserved 35 kDa protein that shows increased expression after entry into stationary phase
Low-affinity zinc transport protein

TFIID subunit

Endo-polygalacturonase

uroporphyrinogen III synthase
basic leucine zipper (bZIP) transcription factor
Acyl-CoA synthetase (fatty acid activator 2)

Peroxisomal delta(3,5)-delta(2,4)-dienoyl-CoA isomerase

GTPase-activating protein for Ypt6
pre-mRNA splicing factor
similar to Aps1p and mammalian small subunit (sigma-2 adaptin) of plasma membrane-associated clathrin as

DNA polymerase zeta subunit

Third subunit of the origin recognition complex
Initiator methionine tRNA 2'-O-ribosyl phosphate transferase

peroxisomal NADP-dependent isocitrate dehydrogenase

Putative monocarboxylate permease
putative transcription factor, has five zinc fingers

family member

↳ dominant negative phenotype when expressed in *S. cerevisiae*

↳ presence of high level ($10^{-6}M$) of thiamine. Under the positive control of *THI2* and *THI3*.

sites, potential ATP-binding site

steroid-binding protein CBP1

⇒ presence of high level ($10^{-6}M$) of thiamine. Under the positive control of TH12 and TH13.

⇒ presence of high level ($10^{-6}M$) of thiamine. Under the positive control of TH12 and TH13.

i2p

os4p, Cos8p, Cos6p, Cos9p

gion

chromosome cores independently of Mei4p and Spo11p); mRNA is induced in meiosis

forms to the H2 variant of the RING finger Zn²⁺ binding motif.

dimerization domain

transcriptase and integrase activities.

sembly complex (AP-2)