

Appendix table 1

Protein	Yeast	Human	Arabidopsis	Title	TargetP	MitoProt	Predotar	Rice chr	Bac
Uracil DNA glycosylase		UNG1	At3g18630	uracil-DNA glycosylase, putative	cp0.928	0.3255	mt0.933	chr4	OSJNBb0004A17
8-oxoguanine DNA glycosylase	OGG1	OGG1	At1g21710	8-oxoguanine-DNA glycosylase	cp0.736/m0.248	0.9782	m0.649	chr2	AP004038
Adenine DNA glycosylase		MYH	At4g12740	Adenine DNA glycosylase like	cp0.722/mt0.243	0.7144	cp0.993	chr12	OJ1618_CO
Thymine glycol DNA glycosylase	NTG1	NTH1	At2g31450	putative endonuclease	cp0.553/mt0.252	0.5613	m0.025	unknown	
			At1g05901	endonuclease III like protein	cp0.726/mt0.254	0.9828		unknown	
3-methyladenine DNA glycosylase	MAG	MPG	At1g75230	putative 3-methyladenine DNA	cp0.761/0.040	0.0030	n	chr1	AC007858
			At1g19480	Hypothetical protein	cp0.853	0.0064	n	chr3	AC120988
			At3g50880	putative DNA-3-methyladenin	cp0.843/0.079	0.1253	n		
AP endonuclease	APN1	APE1	At2g41460	DNA-lyase ARP	mt0.316	0.9899	cp0.302	chr1	AP003221
DNA polymerase	MIP1	POLG	At3g20540	putative DNA polymerase "mdp"	0.741	0.8028	0.776	chr8	
			At1g50840	Unknown protein "cdp"	cp0.928/m0.314	0.9042	cp0.957		
DNA ligase	CDC9	LIG3	At1g08130	DNA ligase	cp0.737/m0.221	0.9943	M0.520/cp0.790	chr10	AC090120
			At1g49250	Hypothetical protein	cp0.151/m0.165	0.2876	n	chr1	AP003452
								chr2	AP004048
DNA helicase	PIF1		At3g51700*	DNA helicase homolog PIF1	cp0.253	0.0175	cp0.188	chr1	AP003853
			At3g42100	putative PIF1	n	n	n	chr2	AP004238

			At3g13250	Hypothetical protein					
SSB	RIM1	SSB	At3g18580	Hypothetical protein	0.717	0.9948	0.544	chr1	AP003725
			At4g11060	putative protein	m0.521	0.8799	0.407		
Non-specific DNA binding prot	ABF2	TFAM	At1g68150*	similar to ABF2	m0.369	0.035	m0.999	chr2	AP004058
			At4g01720	similar to wild oat ABF2	n	n	n		AP004080
			At3g51880	HMG2 like	m0.121	0.0851	0.716	chr6	AP007767
								chr1	AP002486
									AP003492
									AP003300
Junction-specific endonuclease	CCE1	n	n						
Mismatch binding protein	MSH1		At3g24320?	putative mismatch repair				chr4	
8-OxodGTPase	mutT	MTH1	At3g26690*	MutT-like protein	0.79	0.5745	0.151	chr7	
dUTPase		UTP1	At3g46940	dUTP pyrophosphatase like	cp0.305	n	p0.985	unknown	
			*several copies in A.t. genome						
Other loci possibly involved in mt DNA maintenance									
	ILV5		At3g58610	ketol acid reductoisomerase	cp0.980/	0.963	0.995	chr1	OSJNB60032K15