

■ Ames test に使用される改変株

Modified Ames tester strains, as known as YG strains

strain	original	specific genotype & drug resistance	characteristics	publication
YG1021	TA98	+ <i>nfsB</i> (pYG216, Tc ^R)/Ap ^R	sensitive to nitroarene or aromatic amines	Mutat. Res. 216-211 (1989)
YG1026	TA100	+ <i>nfsB</i> (pYG216, Tc ^R)/Ap ^R	sensitive to nitroarene or aromatic amines	
YG1024	TA98	+ <i>oat</i> (pYG219, Tc ^R)/Ap ^R	sensitive to nitroarene or aromatic amines	Mutat. Res. 234-337 (1990)
YG1029	TA100	+ <i>oat</i> (pYG219, Tc ^R)/Ap ^R	sensitive to nitroarene or aromatic amines	
YG1041	TA98	+ <i>nfsB</i> + <i>oat</i> , (pYG233, Km ^R)/Ap ^R	sensitive to nitroarene or aromatic amines	Mutat. Res. 291-171 (1993)
YG1042	TA100	+ <i>nfsB</i> + <i>oat</i> , (pYG233, Km ^R)/Ap ^R	sensitive to nitroarene or aromatic amines	
YG7100	TA1535	Δ <i>ada</i> _{ST} ::Km ^R	slightly sensitive to alkylating agents	J. Bacteriol. 175-5539 (1993)
YG7104	TA1535	Δ <i>ogt</i> _{ST} ::Cm ^R	sensitive to alkylating agents	J. Bacteriol. 177-1511 (1995)
YG7108	TA1535	Δ <i>ada</i> _{ST} ::Km ^R <i>ogt</i> _{ST} ::Cm ^R	sensitive to alkylating agents	
YG7125	TA1535	Δ <i>oat</i> ::Cm ^R	insensitive to nitroarene or aromatic amines	Mutat. Res. 439-159 (1999)
YG7126	TA100	Δ <i>oat</i> ::Cm ^R /Ap ^R	insensitive to nitroarene or aromatic amines	
YG7127	TA1535	Δ <i>nfsB</i> ::Km ^R	insensitive to nitroarene or aromatic amines	Mutat. Res. 375-9 (1997)
YG7128	TA100	Δ <i>nfsB</i> ::Km ^R /Ap ^R	insensitive to nitroarene or aromatic amines	
YG7129	TA1538	Δ <i>oat</i> ::Cm ^R	insensitive to nitroarene or aromatic amines	Mutat. Res. 439-159 (1999)
YG7130	TA98	Δ <i>oat</i> ::Cm ^R /Ap ^R	insensitive to nitroarene or aromatic amines	
YG7131	TA1538	Δ <i>nfsB</i> ::Km ^R	insensitive to nitroarene or aromatic amines	Mutat. Res. 375-9 (1997)
YG7132	TA98	Δ <i>nfsB</i> ::Km ^R /Ap ^R	insensitive to nitroarene or aromatic amines	
YG7158	TA1538	Δ <i>oat</i> ::Cm ^R Δ <i>nfsB</i> ::Km ^R	insensitive to nitroarene or aromatic amines	Genes & Environ. 28-23 (2006)
YG7167	TA1537	Δ <i>nfsB</i> ::Km ^R	insensitive to nitroarene or aromatic amines	Mutagenesis 27-523 (2012)
YG7168	TA102	Δ <i>nfsB</i> ::Km ^R /Ap ^R /Tc ^R	insensitive to nitroarene or aromatic amines	
YG3001	TA1535	<i>mutM</i> _{ST} ::Km ^R	sensitive to reactive oxygen species (ROS) generating compounds	Mutat. Res. 393-233 (1997) Env. Mol. Mutagen. 46-141 (2005)
YG3002	TA1975	<i>mutM</i> _{ST} ::Km ^R	sensitive to ROS generating compounds	
YG3003	TA102	<i>mutM</i> _{ST} ::Km ^R /Ap ^R /Tc ^R	sensitive to ROS generating compounds	
YG3008	TA100	<i>mutM</i> _{ST} ::Km ^R /Ap ^R	sensitive to ROS generating compounds	
YG3201	TA1535	Δ <i>nei</i> ::Cm ^R	sensitive to the compounds oxidizing pyrimidines	Genes & Environ. 31-69 (2009)
YG3203	TA1535	Δ <i>nth</i>	sensitive to the compounds oxidizing pyrimidines	
YG3206	TA1535	Δ <i>nth</i> Δ <i>nei</i> ::Cm ^R	sensitive to the compounds oxidizing pyrimidines	
YG3216	TA100	Δ <i>nth</i> Δ <i>nei</i> ::Cm ^R /Ap ^R	sensitive to the compounds oxidizing pyrimidines	
YG5161	TA1538	+ <i>dinB</i> (pYG768, Ap ^R)	sensitive to polyaromatic hydrocarbons (PAHs)	DNA Repair 5-465 (2006)
YG5185	TA1538	+ <i>dinB</i> (pYG768, Ap ^R) Δ <i>oat</i> ::Cm ^R Δ <i>nfsB</i> ::Km ^R	sensitive to PAHs and insensitive to nitroarenes	Genes & Environ. 28-23 (2006)