

	MS024-2A ORFs	MS024-3C ORFs
Nitrogen assimilation		
Ammonium channel (<i>amtB</i>)		Flav3_or0599
Glutamate synthase	Flav2a_or1206, (<i>gltB</i>), Flav2a_or1205, (<i>gltD</i>)	Flav3c_or0884 (<i>gltB</i>), Flav3c_or0885 (<i>gltD</i>)
Nitrogen regulatory protein P-II		Flav3c_or0600
Glutamine synthetase, type II		Flav3c_or0588
Glutamine synthetase, type III		Flav3c_or0589
Glutamate dehydrogenase	Flav2a_or0639	Flav3c_or1126
Allophanate hydrolase	Flav2A_or0245, Flav2A_or0246	
Phosphate metabolism		
Phosphate permease	Flav2A_or0989	Flav3C_or0330
Polyphosphate kinase	Flav2A_or1736	Flav3C_or0433
Exopolyphosphatase	Flav2A_or1737	
H ⁺ -translocating pyrophosphatase	Flav2A_or1260	Flav3C_or0715
Soluble pyrophosphatase		Flav3C_or0714
Sulfur assimilation		
Sulphate permease	Flav2A_or0259, Flav2A_or0804, Flav2A_or1153	Flav3C_or1133, Flav3C_or1154
APS/PAPS pathway	no <i>cysDHNIJE</i>	no <i>cysDHNIJE</i>
Cysteine synthase (<i>cysK</i> or <i>cysM</i>)	Flav2A_or0331, Flav2A_or1471	Flav3C_or0269
Iron assimilation		
Mn ²⁺ /Fe ²⁺ transporter, NRAMP family	Flav2A_or1119, Flav2A_or1223	Flav3C_or0145
Ferrous Iron Uptake (FeoB) family transporter	Flav2A_or0937	
Vacuolar Iron Transporter (VIT) family	Flav2A_or0083	
Fur	Flav2A_or0540	Flav3C_or0097
FecR	Flav2A_or1173	