

A plant cell comprising: (a) a polynucleotide sequence encoding a nitrate reductase polypeptide comprising a contiguous polypeptide sequence of SEQ ID NO: 5 or SEQ ID NO: 7, wherein methionine is substituted for an amino acid that reduces nitrate reductase activity in the plant cell as compared to a control plant cell; (b) a polypeptide sequence encoded by the polynucleotide sequence set forth in (a); or (c) a construct, vector or expression vector comprising the polynucleotide sequence set forth in (b).