

An invention relates to the isolated nucleic acids, coding polynucleotides, conferring herbicide resistance or herbicide tolerance to bacteria, plants, plant cells, tissues and seeds. The nucleotide sequences of the invention can be used in DNA constructs or expression cassettes for transformation or expression in organisms, comprising microorganisms and plants. The composition also contains transformed bacteria, plants, plant cells, tissues, and seeds. In particular, the isolated polynucleotides are presented, coding polypeptides of resistance or tolerance towards glyphosate.