The rhizobacterium *Serratia plymuthica* A153 is a Gram-negative bacterium belonging to the family *Enterobacteriaceae*. Here, we present the genome sequence of this strain, which produces multiple bioactive secondary metabolites, including the halogenated macrolide oocydin A, the polyamino antibiotic zeamine, and the bacterial acetyl-CoA carboxylase inhibitor andrimid.

*Serratia plymuthica* strains are widely distributed, and commonly found associated with plant roots (1). They are effective biocontrol agents and plant growth-promoting bacteria, mainly due to their capacity to produce exoenzymes, phytohormones, and various secondary metabolites, coupled with their ability to induce systemic resistance (1, 2).

*Serratia plymuthica* A153 was isolated from the rhizosphere of wheat (3) and synthesizes multiple bioactive secondary metabolites, including several antifungal, antioomycete, and anticancer haterumalides/oocydins (4), the bacterial acetyl-CoA carboxylase inhibitor andrimid (5), the polyamino antibiotic zeamine (6), and the broad spectrum antifungal compound pyrrolnitrin (4). *Serratia plymuthica* A153 was used to identify the biosynthetic cluster encoding synthesis of the haterumalide oocydin A (7). Furthermore, it was used as a model bacterium for the study of the regulation of multiple bioactive non-ribosomal peptides and polyketides (5, 6, 8)—research which was greatly facilitated by the facile genetic tractability of A153 and the isolation of a highly efficient generalized transducing phage, φMAM1 (9).

The sequencing of the genomic DNA of *S. plymuthica* A153 was performed at the Department of Biochemistry (University of Cambridge) using 454 DNA pyrosequencing technology on a pico-titer plate for a Roche Applied Science Genome Sequencer FLX system. The 454 data were de novo assembled using Newbler v2.6. The assembly used 308,585 reads (129 MB of raw data) to give an approximately 22× coverage of the estimated genome size and resulted in a total of 24 contigs larger than 500 bp. The average contig size was 230,980 bp and the largest contig was 1,516,666 bp. The contigs were ordered and oriented based on the whole-genome sequences of the *Serratia plymuthica* strains AS9 (10), AS12 (11), AS13 (13), S13 (14), RVH1 (15), 4Rx13 (GenBank accession no. CP006250), and V4 (16). However, these strains lack several clusters for polyketide and non-ribosomal peptide biosynthesis that are present in A153. The sequencing of the genome of *S. plymuthica* A153 will enable further research on the biosynthesis and regulation of both the known and putatively novel secondary metabolites produced by this strain.

**Nucleotide sequence accession number.** The sequences obtained by this whole-genome shotgun project have been deposited in DDBJ/EMBL/GenBank under the accession number LRQU00000000.

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