Permanent Draft Genome Sequence of *Frankia* sp. Strain ACN1*ag*, a Nitrogen-Fixing Actinobacterium Isolated from the Root Nodules of *Alnus glutinosa*

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*Frankia* strain ACN1*ag* is a member of *Frankia* lineage Ia, which are able to re-infect plants of the *Betulaceae* and *Myricaceae* families. Here, we report a 7.5-Mbp draft genome sequence with a G+C content of 72.35% and 5,687 candidate protein-encoding genes.

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