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# CERTIFICATE OF GRANT STANDARD PATENT

**Patent number:** 2022221438

The Commissioner of Patents has granted the above patent on 16 January 2025, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

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**Title of invention:**

Mutant bordetella strains and methods for use

**Name of inventor(s):**

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**Term of Patent:**

Twenty years from 29 March 2017

**Priority details:**

**Divisional of:** 2017242541



Dated this 16<sup>th</sup> day of January 2025

Commissioner of Patents

## PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.