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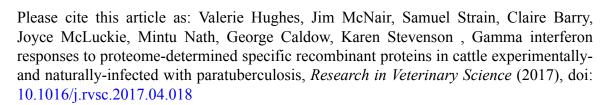
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1

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Running Title: Diagnostic markers for bovine paratuberculosis

Key words: *Mycobacterium avium* subspecies *paratuberculosis*, Johne's, cell-mediated, diagnosis, interferon gamma release assay

Abbreviations: IFN-γ, interferon-γ; IGRA, Interferon Gamma Release Assay; JD, Johne's disease; *Maa*, *Mycobacterium avium* subspecies *avium*; *Map*, *Mycobacterium avium* subsp *paratuberculosis*; PCR, Polymerase

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