

Additional file 1. Factors tested to detect DNA ligation activity of the DRB0100 gene product

Factor	Details
pH	5.5- 8.5
AMP donor	ATP or NAD ⁺
divalent cation	Mn ²⁺ , Mg ²⁺ , Co ²⁺ or Ni ²⁺
Proteins added	Origin
<i>D. radiodurans</i> PprA	Gift from I. Narumi
<i>D. radiodurans</i> LigA	this work
<i>D. radiodurans</i> PNKP	this work
<i>D. radiodurans</i> SSB	Gift from M. Cox
<i>D. radiodurans</i> RecA	Gift from M. Cox
<i>D. radiodurans</i> DdrA	Gift from M. Cox
Bovine Serum Albumin	New England Biolabs