

1 SUPPORTING INFORMATION

2 Table S1. *Escherichia* strains used in this study

Isolate	Source	Locality	Date of sampling	Biochemical identification^a	16S rDNA identification^b
P4652	Feces of seal	Lachman cape, J. Ross Island	27.1. 2013	<i>E. coli</i> atypical and inactive	<i>E. albertii</i>
P4653	Fresh feces of seal	Lachman cape, J. Ross Island	27.1. 2013	<i>E. coli</i> atypical and inactive	<i>E. albertii</i>
P4656	Feces of seal	J.G. Mendel station, J.Ross Island	6.2. 2013	<i>E. coli</i>	<i>E. coli</i>
P4657	Feces of seal	J.G. Mendel station, J.Ross Island	6.2. 2013	<i>E. coli</i>	<i>E. coli</i>
P4664	Feces of seal	Lachman cape, J. Ross Island	31.1. 2013	<i>E. coli</i>	<i>E. coli</i>
P4665	Feces of seal	Lachman cape, J. Ross Island	31.1. 2013	<i>E. coli</i>	<i>E. coli</i>
P4722	Perianal smear of seal	Lachman cape, J. Ross Island	27.1. 2013	<i>E. coli</i>	<i>E. coli</i>
P4733	Feces of seal	Lachman cape, J.Ross Island	28.1. 2013	<i>E. coli</i>	<i>E. coli</i>
P4740	Feces of seal	Lachman cape, J. Ross Island	28.1. 2013	<i>E. coli</i> atypical and inactive	<i>E. albertii</i>
P5601	Feces of skua	J.G. Mendel station, J. Ross Island	1.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5602	Feces of skua	Lachman lake, J. Ross Island	2.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5604	Feces of skua	Lachman lake, J. Ross Island	2.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5644	Perianal smear of elephant seal	beach below Bibby hill, J. Ross Island	14.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5645	Faeces of seal	Brandy Bay, J. Ross Island	11.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5646	Perianal smear of seal	J.G. Mendel station, J. Ross Island	17.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5647	Perianal smear of seal	J.G. Mendel station, J. Ross Island	17.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5648	Perianal smear of seal	Halozetes valley, J. Ross Island	17.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5650	Fresh feces of skua	Area below Bibby hill, J. Ross Island	18.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5654	Feces of skua	J.G. Mendel station, J. Ross Island	22.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5655	Fresh feces of penguin	Marambio station, Seymour Island	26.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5656	Fresh feces of gull	Marambio station, Seymour Island	26.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5657	Fresh feces of gull	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5658	Fresh feces of skua	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5659	Fresh feces of penguin	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>

Isolate	Source	Locality	Date sampling	of Biochemical identification^a	16S rDNA identification^b
P5661	Fresh feces of penguin	Isla Magdalena, Patagonia	7.3. 2014	<i>E. coli</i> atypical and inactive	<i>E. albertii</i>
P5663	Fresh feces of penguin	Isla Magdalena, Patagonia	7.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5664	Fresh feces of penguin	Isla Magdalena, Patagonia	7.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5665	Feces (unknown)	Lachman lake, J. Ross Island	14.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5666	Feces (unknown)	Lachman lake, J. Ross Island	14.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5668	Feces of skua	J.G. Mendel station, J. Ross Island	14.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5669	Feces of skua	J.G. Mendel station, J. Ross Island	14.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5725	Lower reaches of a stream	Solorina valley, J. Ross Island	14.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5726	Lower reaches of a stream	Solorina valley, J. Ross Island	14.2. 2014	<i>E. coli</i>	<i>E. coli</i>
P5790	Smear from penguin cloaca	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5791	Smear from penguin cloaca	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5792	Smear from penguin cloaca	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5793	Smear from penguin cloaca	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5794	Smear from penguin cloaca	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5795	Smear from penguin cloaca	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5797	Smear from penguin cloaca	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>
P5798	Smear from penguin cloaca	Marambio station, Seymour Island	1.3. 2014	<i>E. coli</i>	<i>E. coli</i>

^aAccording to ENTERO-test 24 and Biolog Identification System (GN2 MicroPlate).

^bAnalyses of 1352 bp of 16Sr DNA (out of 1,494 bp) coordinates 58-1409 (according to AJ508775).