











Environmental protection genes

 <p>TviA Involved in capsule production protecting bacteria from environmental factors</p>	 <p>MprA Involved in capsule production protecting bacteria from environmental factors</p>	 <p>SptP A protein released into hosts that suppresses the immune system</p>
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Toxin defence genes

 <p>KPC-2 An enzyme that breaks down penicillin based antibiotics</p>	 <p>CcpA Removes toxins produced from radiation</p>	 <p>OqxB Removes chemical toxins from the bacteria</p>	 <p>MexF Pumps chemicals like antibiotics out of the bacteria cells</p>
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Lifestyle genes

 <p>MtrC A molecular wire that discharges electrons (essentially making electricity)</p>	 <p>AtpA Part of the system that releases energy for cells to live and function</p>	 <p>PrgI Forms a needle-shaped structure that injects effector proteins into host cells</p>
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Community genes

 <p>FlhA Makes flagella (a tail) that allows the bacteria to move in its environment</p>	 <p>IpfC Enables bacteria to colonise the gut</p>	 <p>LuxS Allows bacteria to sense how many of there are in an area (quorum sensing)</p>	 <p>BpfA Helps bacteria stick together in biofilms</p>
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