Uses For Long Polar Fimbriae Genes of Pathogenic Escherichia Coli Strains

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**Description:**
Provided are methods for identifying lpf genes in pathogenic serotypes of the Enterobacteriaceae family and for differentiating Escherichia coli (E. coli) O157:H7 strains in an isolate using primer pairs specific to lpf gene variants, particularly IpfA1 and/or IpfA2 genes and amplicon size of the PCR product to identify prototypic Enterobacteriaceae serotypes or more specifically, to differentiate strains of E. coli serotype O157:1-17. Differentiation further requires identifying the E. coli isolate's eae gene variant type which in combination with the IpfA1 and/or IpfA2 variant identification provides unique markers. Also provided are the primer pairs and a kit comprising the same.

**Patent Status:** Patent Pending [USSN 13/138,845](https://www.uspto.gov/

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