**Table S3 Core proteomes of IncI1 and IncK plasmids.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Inc group (nr of plasmids analysed)** | **Core protein locus tags of representative plasmids (R64 for IncI1, pCT for IncK)** | **Annotation** | **Protein name** |
| IncI1 (50) | R64\_p081 | relaxase | NikB |
|  | R64\_p090 | conjugal transfer protein | TraX |
|  | R64\_p123 | type IV prepilin | PilS |
|  | R64\_p124 | integral membrane protein | PilR |
|  | R64\_p125 | type IV pilus ATPase | PilQ |
|  | R64\_p126 | type IV pilus protein | PilP |
|  | R64\_p127 | type IV pilus protein | PilO |
|  | R64\_p129 | type IV pilus protein | PilM |
| IncK (17) | pCT\_053 | conjugal transfer protein | TrbC |
|  | pCT\_054 | conjugal transfer protein | TrbB |
|  | pCT\_057 | endonuclease | ParB |
|  | pCT\_064 | conserved hypothetical plasmid protein | - |
|  | pCT\_068 | conjugal transfer integral membrane protein | TraY |
|  | pCT\_069 | conjugal transfer protein | TraX |
|  | pCT\_070 | conjugal transfer protein | TraW |
|  | pCT\_071 | conjugal transfer protein | TraV |
|  | pCT\_072 | conjugal transfer nucleotide-binding protein | TraU |
|  | pCT\_073 | conjugal transfer protein | TraT |
|  | pCT\_074 | conjugal transfer protein | TraS |
|  | pCT\_075 | conjugal transfer protein | TraR |
|  | pCT\_076 | conjugal transfer protein | TraQ |
|  | pCT\_077 | conjugal transfer protein | TraP |
|  | pCT\_078 | conjugal transfer protein | TraO |
|  | pCT\_079 | conjugal transfer protein | TraN |
|  | pCT\_080 | conjugal transfer protein | TraM |
|  | pCT\_087 | conjugal transfer protein | TraK |
|  | pCT\_088 | conjugal transfer ATPase protein | TraJ |
|  | pCT\_089 | conjugal transfer lipoprotein | TraI |
|  | pCT\_090 | conjugal transfer protein | TraH |
|  | pCT\_092 | conjugal transfer protein | TraE |
|  | pCT\_107 | type IV pilus protein | PilP |
|  | pCT\_109 | type IV pilus outer membrane protein | PilN |
|  | pCT\_110 | type IV pilus protein | PilM |
|  | pCT\_111 | type IV pilus lipoprotein | PilL |
|  | pCT\_113 | type IV pilus protein | PilI |