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| Table S5. The genomic identity and protein identity. |
|  | M102AD | Phismun24-1 |  |
|  | Genomic positions | ORF | Genomic positions | ORF | Genomic identity | Protein identity |
| M102AD/ Phismun24-1 | 10373-1316013843-21600 | ORF12: putative tape measure proteinORF13:putative tail proteinORF14:putative receptor-binding proteinORF15:putative minor structural proteinORF16:hypothetical proteinORF17:hypothetical proteinORF18:putative holinORF19:putative endolysinORF20:putative endolysin | 19017-2180422529-30283 | ORF28: putative tail component proteinORF29:putative tail component proteinORF30:tail-host specificity protein ORF31:tail proteinORF32:hypothetical proteinORF33:hypothetical proteinORF34:putative holinORF35:putative endolysinORF36:putative endolysin | 83.28%84.06% | 57.68%81%95%91%67%91%90%91%89% |
|  | M102AD | PhismunNLML9-1 |  |  |
|  | Genomic positions | ORF | Genomic positions | ORF |  |  |
| M102AD/ PhismunNLML9-1 | 10394-1316013848-1855618892-21587 | ORF12:putative tape measure proteinORF13:putative tail protein ORF14:putative receptor-binding proteinORF15:putative minor structural proteinORF16:hypothetical proteinORF17:hypothetical proteinORF18:putative holinORF19:putative endolysinORF20:putative endolysin | 45266-4803248757-5346853855-56552 | ORF43:putative tail component proteinORF44:putative tail component proteinORF45:tail-host specificity proteinORF46: tail proteinORF47:hypothetical proteinORF48:hypothetical proteinORF49:putative holinORF50: hypothetical proteinORF51:putative endolysin | 83.81%85.71%84.32% | 57.73%82%96%78%86%90%90%94%91% |
|  | M102AD | PhismunN66-1 |  |  |
|  | Genomic positions | ORF | Genomic positions | ORF |  |  |
| M102AD/ PhismunN66-1 | 10394-1316013848-1906519373-20097 | ORF12:putative tape measure proteinORF13:putative tail proteinORF14:putative receptor-binding proteinORF15:putative minor structural proteinORF16:hypothetical proteinORF17:hypothetical proteinORF18:putative holin | 14029-1679517520-2273723045-23770 | ORF23:putative tail component proteinORF24:putative tail proteinORF25:host specificity proteinORF26:tail proteinORF27:hypothetical proteinORF28:hypothetical proteinORF29:putative holin | 82.91%85.64%82.78% | 62.05%81%95%90%68%91%85% |
|  |  |  |  |  |  |  |