**Supporting Information Table S3: Probe-sets uniquely present in PC IV serotype 1/2a**

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| Probe ID | Annotation |
| AARI\_0014\_at | NK |
| AARI\_0606\_at | NK |
| AARO\_0405\_x\_at | NK |
| IGLMHCC\_2942\_s\_at | intergenic region |
| IGLMHCC\_2950\_s\_at | intergenic region |
| IGLMHCC\_2953\_at | intergenic region |
| IGLMHCC\_2983\_s\_at | intergenic region |
| IGlmo2271\_at | intergenic region |
| IGlmo2290\_at | intergenic region |
| IGlmo2290\_x\_at | intergenic region |
| IGlmo2302\_x\_at | intergenic region |
| IGlmo2303\_at | intergenic region |
| IGlmo2328\_x\_at | intergenic region |
| IGlmo2330\_at | intergenic region |
| IGlmo2330\_x\_at | intergenic region |
| LMBG\_01625\_s\_at | conserved hypothetical protein |
| LMBG\_01658\_s\_at | TerS/Pfam=PF03592.8 |
| LMBG\_01659\_s\_at | TerL/Pfam=PF07570.4 |
| LMBG\_01666\_s\_at | phage protein |
| LMBG\_01681\_s\_at | peptidoglycan lytic enzyme |
| LMBG\_01688\_s\_at | conserved hypothetical protein |
| LMFG\_02401\_s\_at | conserved hypothetical protein/Pfam=PF01381.14 |
| LMFG\_02402\_at | predicted protein/Pfam=PF01381.14 |
| LMFG\_02517\_at | predicted protein |
| LMFG\_02518\_s\_at | predicted protein |
| LMFG\_02983\_s\_at | phage protein |
| LMFG\_02989\_s\_at | phage protein/Pfam=PF06152.3 |
| LMFG\_03002\_s\_at | phage protein/Pfam=PF06997.3 |
| LMFG\_03003\_s\_at | phage protein/Pfam=PF06605.3 |
| LMFG\_03181\_s\_at | phage protein |
| LMFG\_03194\_s\_at | conserved hypothetical protein/Pfam=PF03837.6 |
| LMFG\_03210\_at | predicted protein |
| LMHCC\_2946\_s\_at | conserved hypothetical protein/GI=217335483 |
| LMHCC\_2953\_s\_at | gp47/GI=217335490 |
| LMHCC\_2977\_s\_at | protein gp66/GI=217335514 |
| LMHCC\_2983\_s\_at | putative scaffolding protein/GI=217335520 |
| LMHCC\_2983\_x\_at | putative scaffolding protein/GI=217335520 |
| LMHCC\_2984\_s\_at | phage coat protein/GI=217335521 |
| LMHCC\_2987\_s\_at | Gp10/GI=217335524 |
| LMJG\_02933\_x\_at | conserved hypothetical protein |
| LMJG\_02938\_s\_at | phage protein |
| lmo2279\_s\_at | holin [Bacteriophage A118]/GI=16411749 |
| lmo2281\_s\_at | protein gp22 [Bacteriophage A118]/GI=16411751 |
| lmo2282\_s\_at | protein gp21 [Bacteriophage A118]/GI=16411752 |
| lmo2288\_s\_at | Protein gp15 [Bacteriophage A118]/GI=16411758 |
| lmo2304\_s\_at | Bacteriophage A118 gp65 protein/GI=16411774 |
| lmo2305\_s\_at | GI=16411775 |
| lmo2322\_s\_at | gp44 [Bacteriophage A118]/GI=16411811 |
| lmo2325\_at | GI=16411814 |
| lmo2326\_s\_at | GI=16411815 |
| lmo2332\_s\_at | int putative integrase [Bacteriophage A118]/GI=16411821 |
| LMOf6854\_2342\_s\_at | protein gp23/GI=47015579 |
| LMOf6854\_2357\_s\_at | protein gp8/GI=47015594 |
| LMOf6854\_2362\_s\_at | phage portal protein, putative, A118 family/GI=47015599 |
| LMOf6854\_2365\_s\_at | gp68/GI=47015602 |
| LMOf6854\_2380\_s\_at | DnaD domain protein/GI=47015617 |
| LMOf6854\_2654\_at | gp27/GI=47014861 |
| LMOf6854\_2697\_x\_at | conserved hypothetical protein/GI=47014140 |
| LMRG\_01511\_at | U153 integrase/Pfam=PF07508.5 |
| LMRG\_01511\_x\_at | U153 integrase/Pfam=PF07508.5 |
| LMRG\_01512\_at | conserved hypothetical protein/Pfam=PF04326.6 |
| LMRG\_01513\_at | predicted protein |
| LMRG\_01514\_at | phage protein/Pfam=PF01381.14 |
| LMRG\_01521\_at | phage protein |
| LMRG\_01521\_s\_at | phage protein |
| LMRG\_01521\_x\_at | phage protein |
| LMRG\_01523\_x\_at | phage protein |
| LMRG\_01527\_x\_at | Gp32 protein |
| LMRG\_01531\_at | TerS/Pfam=PF03592.8 |
| LMRG\_01532\_at | TerL/Pfam=PF07570.4 |
| LMRG\_01532\_x\_at | TerL/Pfam=PF07570.4 |
| LMRG\_01533\_at | phage protein/Pfam=PF05126.4 |
| LMRG\_01534\_at | phage protein/Pfam=PF06152.3 |
| LMRG\_01534\_x\_at | phage protein/Pfam=PF06152.3 |
| LMRG\_01537\_x\_at | phage protein |
| LMRG\_01538\_at | phage protein |
| LMRG\_01538\_s\_at | phage protein |
| LMRG\_01538\_x\_at | phage protein |
| LMRG\_01539\_at | phage protein |
| LMRG\_01539\_x\_at | phage protein |
| LMRG\_01540\_at | phage protein |
| LMRG\_01540\_x\_at | phage protein |
| LMRG\_01541\_at | major tail shaft protein |
| LMRG\_01541\_x\_at | major tail shaft protein |
| LMRG\_01542\_s\_at | phage protein/Pfam=PF02368.10 |
| LMRG\_01542\_x\_at | phage protein/Pfam=PF02368.10 |
| LMRG\_01543\_at | phage protein |
| LMRG\_01544\_at | phage protein/Pfam=PF06854.3 |
| LMRG\_01545\_at | tmp |
| LMRG\_01546\_at | phage protein/Pfam=PF06997.3 |
| LMRG\_01548\_s\_at | phage protein |
| LMRG\_01550\_at | phage protein |
| LMRG\_01550\_x\_at | phage protein |
| LMRG\_01554\_at | LalanylDglutamate peptidase |
| LMRG\_01554\_x\_at | LalanylDglutamate peptidase |
| LMRG\_01557\_at | predicted protein |
| LMRG\_01558\_at | Gp22 protein |
| LMRG\_01558\_x\_at | Gp22 protein |
| LMRG\_02918\_x\_at | predicted protein |
| LMRG\_02920\_s\_at | phage protein/Pfam=PF08346.4 |
| LMRG\_02920\_x\_at | phage protein/Pfam=PF08346.4 |
| LMRG\_02921\_at | sugarphospahte nucleotidyltransferase |
| LMSG\_02941\_s\_at | TerL |
| LMSG\_03002\_s\_at | recombinase/Pfam=PF03837.6 |
| LMSG\_03154\_x\_at | phage protein |
| LMSG\_03167\_s\_at | predicted protein |
| LMSG\_03174\_s\_at | phage protein/Pfam=PF03374.6 |
| LMSG\_03174\_x\_at | phage protein/Pfam=PF03374.6 |