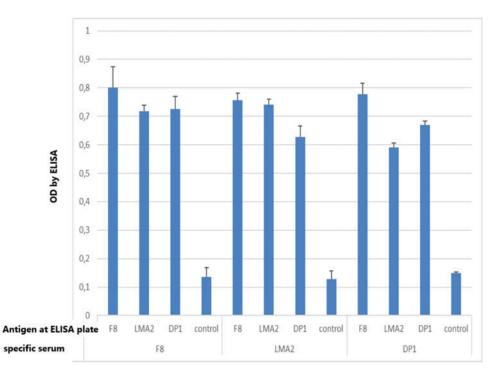
Consensus Identity	1 MISQSRYIRÍISGVGAGAPÝAGRKLILRVÍTTNNVI PPGÍVIEFDNANAÝLSYFGAQSEÉYQRAAAYFKÉISKSVNSPSŠISFARWVNTÁLAPMVVGDNLP
1. LMA2 2. DP1 3. F8	MISQSRYIRIISGVGAGAPVAGRKLILRVMTTNNVIPPGIVIEFDNANAVLSYFGAQSEEYQRAAAYFKFISKSVNS®SSISFARWVNTAIAPMVVGDNLP MISQSRYIRIISGVGAGAPVAGRKLILRVMTTNNVIPPGIVIEFDNANAVLSYFGAQSEEYQRAAAYFKFISKSVNS®SSISFARWVNTAIAPMVVGDNLP MISQSRYIRIISGVGAGAPVAGRKLILRVMTTNNVIPPGIVIEFDNANAVLSYFGAQSEEYQRAAAYFKFISKSVNS®SSISFARWVNTAIAPMVVGDNLP 10 120 130 140 150 160 170 160 170 160 170 160 170 160 190 200
Consensus Identity	KTIADFAGÉSAGVLTIMVGAAEQNITA IDTSAATSMONVASI I QTEIRKNADPQLAQATVTWNONTNOÉTLVGAT I GTÖVLAVAKSADPQDMSTALGWSTS
1. LMA2 2. DP1 3. F8	K TI ADFAGE SAGVLTI MVGAAEQNI TA I DT SAATSMDNVASI I QTE I RKNAD PQLAQATVTWNQN I NQFTL VGAT I GTGVL AVAK SAD PQDMSTAL GWSTS KTI ADFAGE SAGVLTI MVGAAEQNI TA I DT SAATSMDNVASI I QTE I RKNAD PQLAQATVTWNQN I NQFTL VGAT I GTGVL AVAK SAD PQDMSTAL GWSTS KTI ADFAGE SAGVLTI MVGAAEKNI TA I DT SAATSMDNVASI I QTE I RKNAD PQLAQATVTWNPN NQFTL VGAT I GTGVL AVAK SAD PQDMSTAL GWSTS 210 220 230 240 250 260 270 280 270 280 290 300
Consensus Identity	NVVNVAGGAADLPDAAVÄKSTNVSNNFGSFLFAGAPLÖNDQIKAVSAWNAAQNNQFIYTVATSLANLGTLFTLVNGNÄGTALNVLSATAANDFVEQCØSEI
1. LMA2 2. DP1 3. F8	NVVNVAGQAADL PDAAVAK STNVSNNFGS FL FAGAPLDNDQ I KAVSAWNAAQNNQF I YTVATSLANL GTL FTL VNGNAGTALNVL SATAANDFVEQCP SE I NVVNVAGQAADL PDAAVAK STNVSNNFGS FL FAGAPLDNDQ I KAVSAWNAAQNNQF I YTVATSLANL GTL FTL VNGNAGTALNVL SATAANDFVEQCP SE I NVVNVAGQAADL PDAAVAK STNVSNNFGS FL FAGATLDNDQ I KAVSAWNAAQNNQF I YTVATSLANL GL FDL VKGNSGTALNVL SATAANDFVEQCP SE I 200 230 230 240 240 240 240 240 240 240 240 240 24
Consensus Identity	LAATNYDEPGASQNYMYYQFPGRNITVSDDTVANTVDKSRGNYIGVTQANGQQLAFYQRGILCGGPTDAVDMNVYANEIWLKSAIAQALLDLFLNVNAVPA
1. LMA2 2. DP1 3. F8	LAA TNYDE PGASQNYMYYQF PGRN I TVSDD TVAN TVDKSRGNY I GVTQANGQQLAF YQRG I LCGGP TDAVDMNVYANE I WLKSA I AQALLDLFLNVNAVFA LAA TNYDE PGASQNYMYYQF PGRN I TVSDD TVAN TVDKSRGNY I GVTQANGQQLAF YQRG I LCGGP TDAVDMNVYANE I WLKSA I AQALLDLFLNVNAVFA LAA TNYDE PGASQNYMYYQF PGRN I TVSDD TVAN TVDKSRGNY I GVTQANGQQLAF YQRG I LCGGP TDAVDMNVYANE I WLKSA I AQALLDLFLNVNAVFA LAA TNYDE PGASQNYMYYQF PGRN I TVSDD TVAN TVDKSRGNY I GVTQANGQQLAF YQRG I LCGGP TDAVDMNVYANE I WLKSA I AQALLDLFLNVNAVFA
Consensus Identity	SSTGEÅMTLAVLQPVĽDKATANGTFTYGKE I SAVQQQY I TQVTGDŘRAWRQVQTLGYWINI TFSSÝTNSNTGLTEŴKANYTL I YSKGDA I RFVEGŠDVMÍ
1. LMA2 2. DP1 3. F8	SSTGEAMTLAVLQEVLDKATANGTETYGKE I SAVQQQY I TQVTGDRRAWRQVQTLGYWINITESSYTNSNTGLTEWKANYTLI YSKGDA I REVEGSDVMI SSTGEAMTLAVLQEVLDKATANGTETYGKE I SAVQQQYI TQVTGDRRAWRQVQTLGYWINITESSYTNSNTGLTEWKANYTLI YSKGDA I REVEGSDVMI SMVGEAMTLAVLQEVLDKATSNGTETYGKD I SAVQQQYI TQI TGDRRAWRQVQTLGYWINITESSYTNSNTGLTEWKANYTLI YSKGDA I REVEGSDVMI

SUPPLEMENTARY FIG. S4. Comparison of gp29 sequences in bacteriophages F8, LMA2, and DP1.



**SUPPLEMENTARY FIG. S5.** Cross-reactions between F8-, LMA2-, and DP1-specific reference sera as revealed by ELISA. Antigen at ELISA plate-phage that covered plates for testing  $(5 \times 10^8 \text{ pfu per well, overnight})$ , specific serum-reference murine serum obtained by three challenges (days 0, 21, and 45) with  $5 \times 10^8 \text{ pfu per mouse}$  (with adjuvant), separated by blood clotting, control-albumin-covered wells. ELISA, enzyme-linked immunosorbent assay.