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Construction of the DG deletion mutants

For the construction of the DG deletion mutants, the following cDNA fragments amplified by PCR on rabbit DG cDNA (Ibraghimov-Beskrovnaya et al., 1992) were inserted into DGpDisplay: DGI (DH30-R168), FP-DGN1b (digested with HindIII and ScaI) and DGC1f-Fub (digested with FspI and SacI); DGD (ΔC182-H315), FP-Dub (digested with HindIII and NaeI) and SmaI1119-XhoI1284 (derived from DGE); DGE (ΔH30-A316), Euf-Eub (digested with XmaI and SacI); DGF (ΔT317-P408), Fuf-Fub (digested with ApaI and NaeI) and Fnf-Fdb (digested with SmaI and SacI); DGG (ΔG409-S485), Guf-Gnb (digested with XhoI and SmaI) and Fdf-Fdb (digested with NaeI and BamHI); and DGH (ΔH30-S485), Huf-Fdb (digested with XmaI and MfeI). All deletion mutants were verified by double-strand DNA sequencing. Mutants DGD and DGE have the amino acid exchange A316G. All other manipulations resulted in silent mutations.

Primers

FP: 5′-CCCACTGCTTACTGGCTT-3′
DGN1b: 5′-GGGCCAAGTACTCTGAGCCACGGCCAC-3′
DGC1f: 5′-GTGTGCGCAGCCTCTCCAGACCTGGGC-3′
Fub: 5′-TGTGGGGCCGGCATGGATCTGCCTTCGGAT-3′
Dub: 5′-GGCAGCGCCGGCAGACGCCGCCGCCTC-3′
Euf: 5′-AGGCAGATCCCCGGGACACCCACACCTGTCACTGCC-3′
Eub: 5′-GGCGTCCACCCTGTCGATGTGGTT-3′
Fuf: 5′-ATGGCCGGCCCCGGAAACGCC-3′
Fub: 5′-TGTGGGGCCGGCATGGATCTGCCTTCGGAT-3′
Fnf: 5′-ACCATTCCCGGGTACGTGGAGCCCACA-3′
Fdf: 5′-ACCACCGCCGGCGTGCCCCGCGGGGGA-3′
Fdb: 5′-GTCTGGCACCTCCGTGGGTGG-3′
Guf: 5′-CCTGTTCCTGGGAAGCCCACG-3′
Gnb: 5′-CACGTACCCGGGAATGGTCACCGTTGC-3′
Huf: 5′-ATCCGCACCACCCCCGGGGGGGTGCCCCGCGGGGGA-3′

Construction of α-DG–Fc fusion proteins

Using the expression construct IgG1FcpcDNA3 (Chen et al., 1996), α-DG–Fc fusion proteins containing the following sequences of α-DG were made: DGFc1, amino acids 30–181; DGFc2, amino acids 30–316; DGFc3, amino acids 30–408; DGFc4, amino acids 30–485; and full-length α-DG–Fc, DGFc5, amino acids 30–653. For the construction of DGFc1-5, human IgG1FcpcDNA3 was digested first with BamHI (filled in with EcoPolI Klenow enzyme for DGFc1-4) and then digested with KpnI. The following cDNA fragments generated by PCR were inserted into human IgG1FcpcDNA3 digested with BamHI and KpnI: DGFc1, FP-Dub (digested with PflMI and NaeI); DGFc2, Fuf-Fub (digested with ApaI and NaeI); DGFc3, Guf-Gnb (digested with XhoI and SmaI); DGFc4, Guf-Gub (digested by XhoI and ScaI); and DGFc5, Fdf-DGFcb (digested with SacI and BamHI).

Primers

Gub: 5′-GGGCACAGTACTGGTGGTGGTGCGGATACG-3′
DGFcb: 5′-CGGAGGATCCCCGCGGGTGATGTTCTGCAG-3′

Detection of LCMV ARM53b and clone-13 in spleen tissue by in situ hybridization

Fig. 4, showing the detection of LCMV ARM53b and clone-13 by in situ hybridization in spleen tissue with hematoxylin-eosin counter staining, has been modified from Borrow et al. (Borrow, P., C.F. Evans, and M.B. Oldstone. 1995. *J. Virol.* 69: 1059–1070).