

Summary of viral genes involved in the control of host defense system.

	Innate Immune System			Adaptive Immune System		Apoptosis	Other Pathways
	Cytokine	Chemokine	MHC Class I Homologs	Antigen Presentation Pathway	Antibody Interference		
Poxvirus	IL-10; IL-18-BP ; IL-1 β -R; INF-R ; TNF-R; CD30; CD150 (SLAM) ; CD200 (OX-2)	Chemokine ; Chemokine-R	MHC class I	LAP domain (MHC class I down regulation)		Ankyrin; Bcl-2; FLIP ; dsRNA-binding protein; eIF2 α ; M-T4; Apoptosis regulator M11L; Glutathione peroxidase ; Serpin; C-type lectin	Semaphorines ; Complement-binding protein; CD47
α-herpesvirus				ICP47 (inhibits peptide loading)	Fc-binding protein	ICP34.5 (GADD34); Glycoprotein J ; RNA-binding protein interacting with PKR	Complement-regulatory protein
β-herpesvirus	IL-10 ; TNF-R; CD200 (OX-2)	Chemokine ; Chemokine-R	MHC class I	MCMV/gp48 (directs MHC class I to lysosome); MCMV/gp40 (downregulates MHC class I); HCMV/US11 (causes degradation of MHC class I)	Fc-binding protein	vMIA	
γ-herpesvirus	IL-10 ; IL-6; INF regulatory factor (ICSBP)	Chemokine ; Chemokine-R		KSHV/K3,K5 (induce endocytosis of MHC class I)		Bcl-2 ; FLIP	CCP (complement control protein); LMP-1 ; LMP-2A
Asfarvirus						C-type lectin ; IAP; Bcl-2	I κ B (Inhibitor of NF κ B)
Baculovirus						Inhibitor of apoptosis	
Iridovirus						Caspase-1	
Mimivirus						EI24	

For those highlighted by red, our analyses identified several genes in the 67 LDV genomes as cA genes. For EI24 (in blue), see text.