

Gene	LCMV exhausted	HCC TILs	NSCLC TILs	CRC TILs	Melanoma TILs
HAVCR2	X	X	X	X	X
RGS16	X				
LAYN		X	X	X	
SRGAP3	X		X	X	
DUSP4	X	X	X	X	
CSF1	X	X	X	X	X
TNFRSF9	X	X	X	X	X
LYST		X	X	X	X
TNFRSF18			X	X	
NDFIP2	X	X	X	X	
SQLE				X	
ID3		X			
SOX4				X	
CD9	X				
PHLDA1	X	X	X	X	X
CCL3		X	X	X	X
CCL4	X				
KLRC1	X				
KLRD1					
KLRB1	X				
KLRC2			X		
CDK6	X		X	X	
PLS3	X				
AFAP1L2		X		X	
CTSW					
IL2RA					
AHI1				X	
RBPJ	X		X	X	
GZMB		X	X	X	
GNLY					

**Table S5:** Table of dysfunction signature genes (N=30). X marks genes that are upregulated in LCMV exhausted T cells or defines dysfunctional TILs in scRNA-seq experiments. HCC (hepatocellular carcinoma), NSCLC (non-small-cell lung cancer), CRC (colorectal carcinoma), LCMV (lymphocytic choriomeningitis virus). Related to Figures 3 and S3.