

Figure 1

Sample and data cohorts:
[1]-Retrospective HNSCC survival data (n=544)
[2]-HNSCC RNA-Seq our cohort (n=23)
[3]-HNSCC RNA-Seq Cancer Genome Atlas data
(public data from TCGA)
[4]-Purified B cells from HNSCC

Figure 2

Survival Analysis of HNSCC cohort [1] (n=544)

Table 1

Genome-Wide Transcriptome Analysis on subset
of TIL rich tumors (cohort [2]):
10 HPV(+) versus 13 HPV(-)

Figure 3

Differential Gene Expression & Functional
Enrichment Analyses

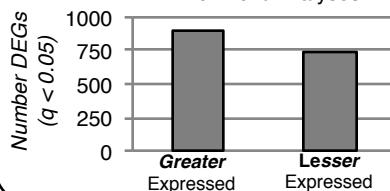


Figure 4

Estimating cell-type influences on gene expression
results via:

- *IHC analysis*
- *Lymphocyte surface markers*
- *Computational predictions*

Figure S1 and S3

Differential Gene Expression Correcting for Cell-Types

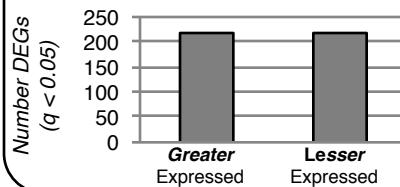


Figure S3

Validation of DEGs genes in an independent RNA-
Seq dataset:

- Visualisation of TIL corrected DEGs (437) in
HNSCC TCGA cohort [3]

Figure S2 and Table S1

Identification of genes from external transcriptome-
based studies and gene ontology databases

Figure 5

Validation of target genes in an independent
RNA-Seq dataset:

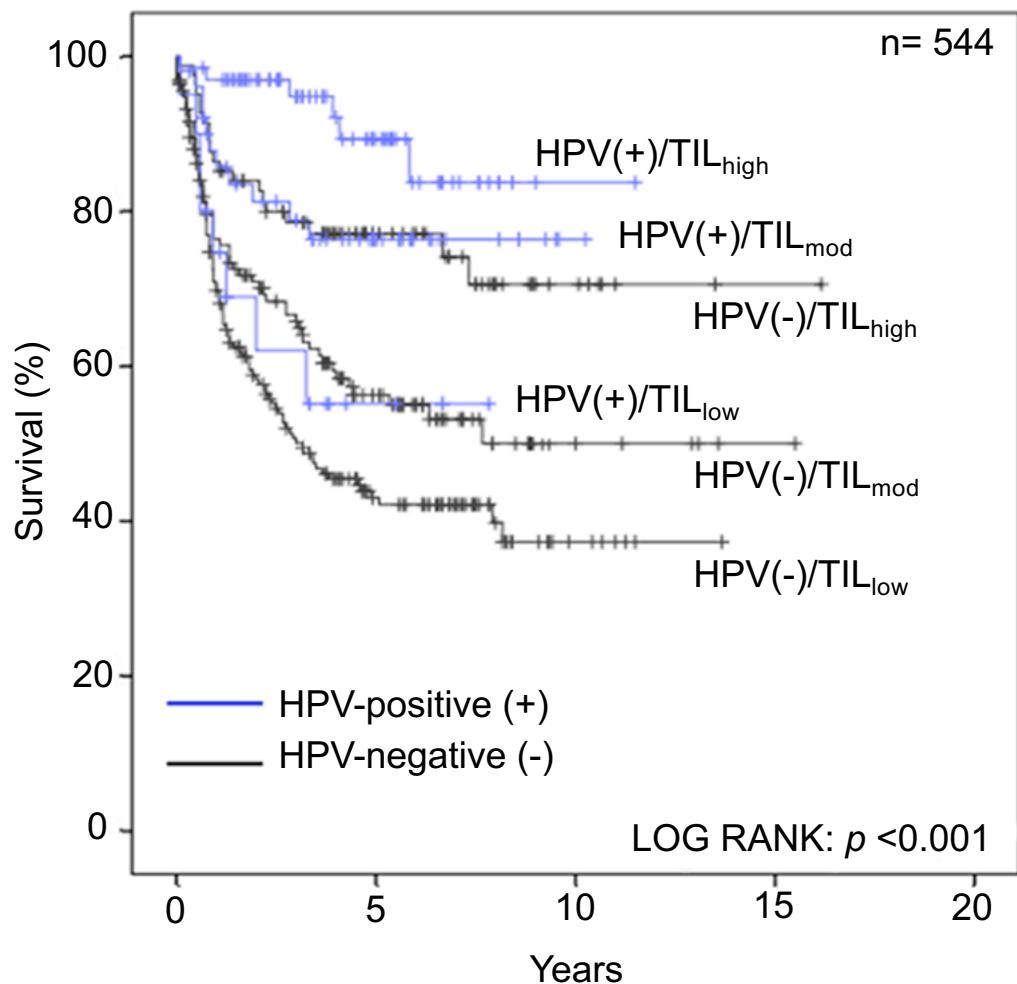
- Visualisation of target genes (8) in
HNSCC TCGA cohort [3]

Figure 6 and 7

Validation of target genes (8) by IHC and RT-
qPCR:

- RT-qPCR of target genes in tumor B cells
(independent cohort [4])
- RT-qPCR analysis of selected target genes in
tumors (our cohort [2])
- IHC analysis of tumors (our cohort [2])

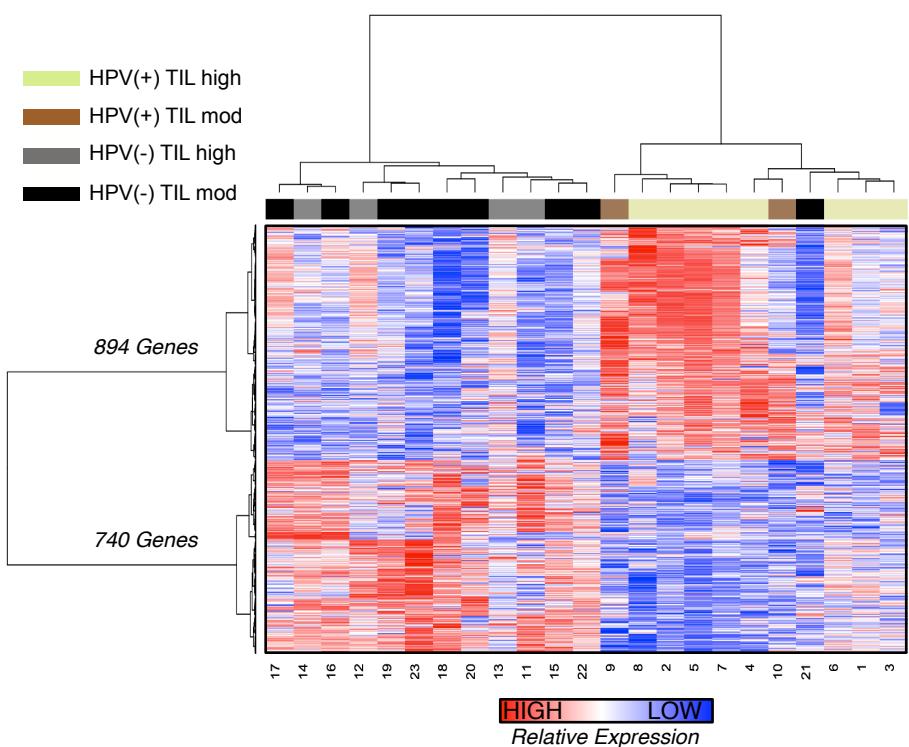
Figure 2



	61	26	1	
HPV(+)/TIL _{high}	61	26	1	
HPV(+)/TIL _{mod}	51	21	1	
HPV(+)/TIL _{low}	20	4		
HPV(-)/TIL _{high}	81	33	7	1
HPV(-)/TIL _{mod}	134	47	6	1
HPV(-)/TIL _{low}	192	49	6	

Figure 3

A



B

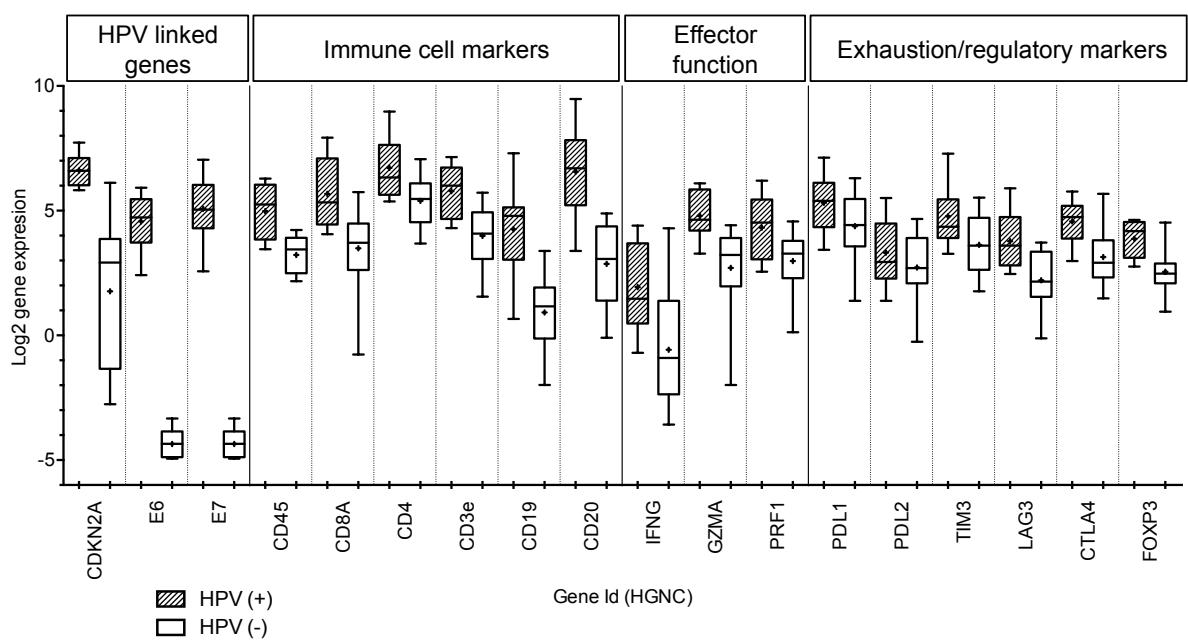


Figure 4

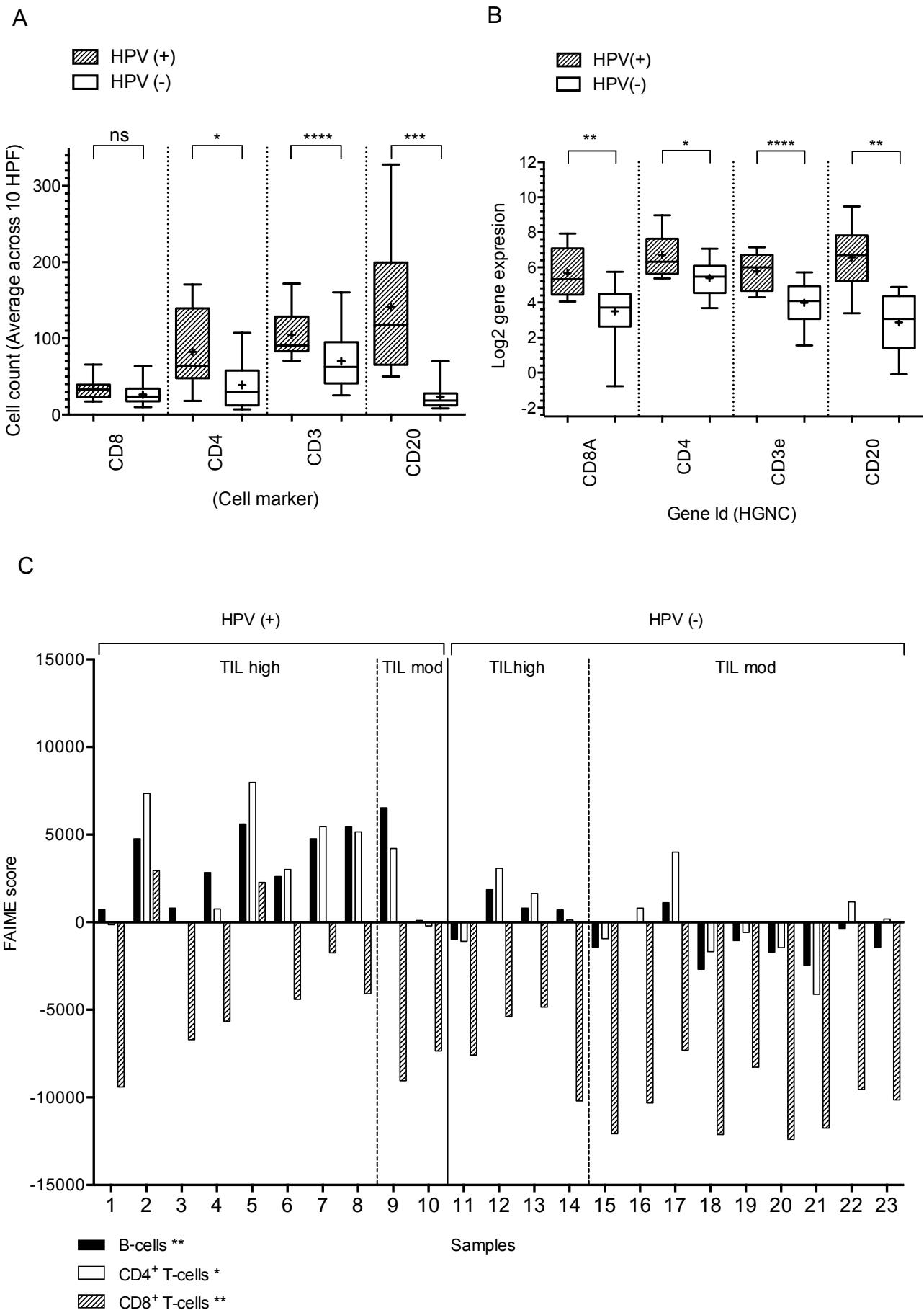
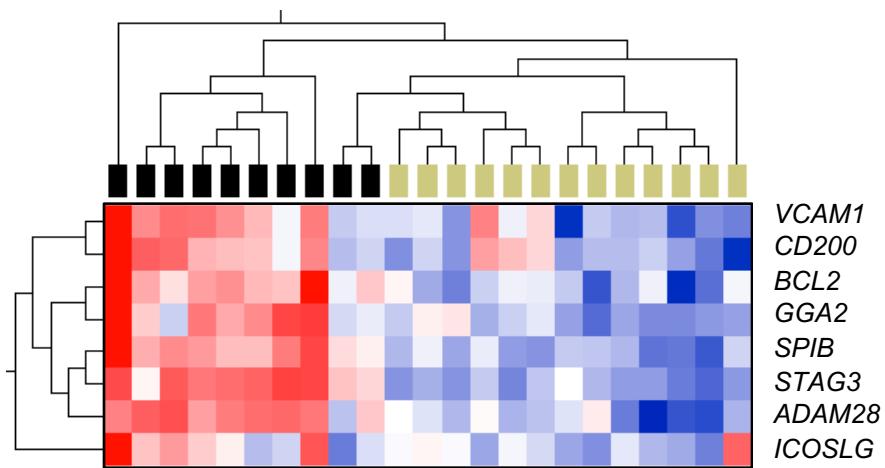


Figure 5

A



B

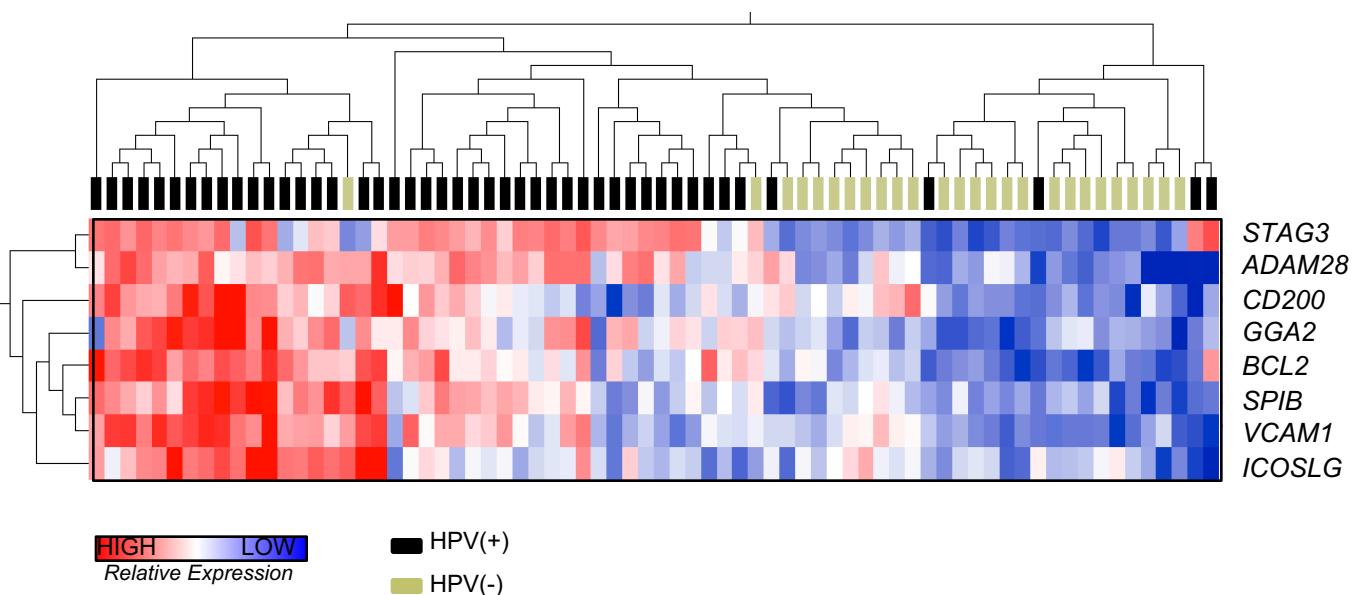


Figure 6

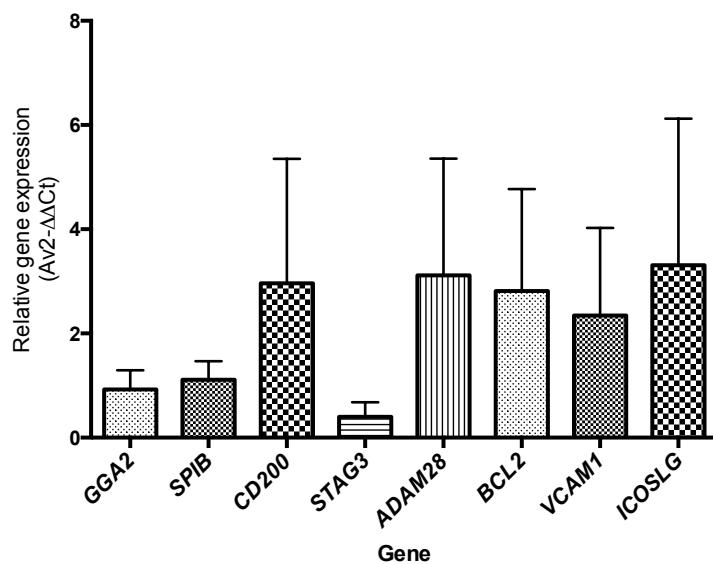


Figure 7

