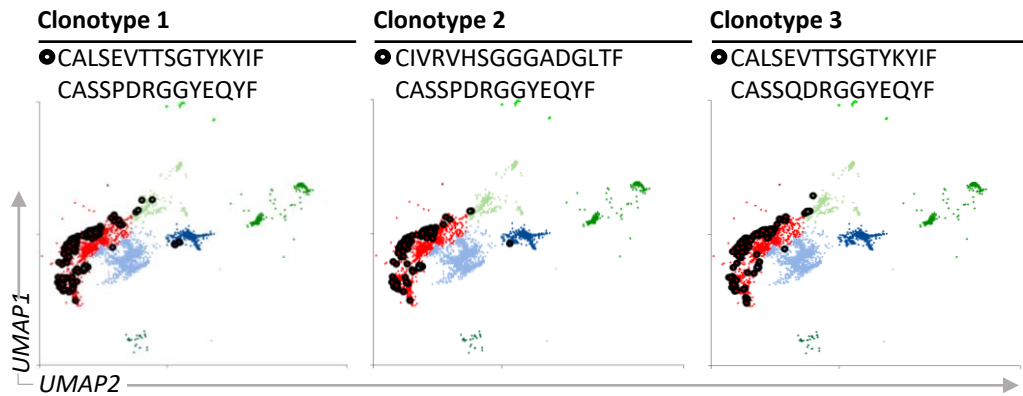


**(i) Blister fluid: Expression of top expanded TCRs in CD8 Tconv**



**(ii) Blister fluid: CDR3 $\alpha\beta$  expression of CD8 Tconv cells selected by each top clonotype**

TCR	Cells expressing clonotype 1		Cells expressing clonotype 2		Cells expressing clonotype 3	
	CDR3 $\alpha$ /CDR3 $\beta$	Ct.	CDR3 $\alpha$ /CDR3 $\beta$	Ct.	CDR3 $\alpha$ /CDR3 $\beta$	Ct.
1	CALSEVTTSGTYKYIF CASSPDRGGYEQYF	325	CIVRVHSGGGADGLTF CASSPDRGGYEQYF	239	CALSEVTTSGTYKYIF CASSQDRGGYEQYF	218
2	CIVRVHSGGGADGLTF CASSPDRGGYEQYF	222	CALSEVTTSGTYKYIF CASSPDRGGYEQYF	222		
3	CVVNNARNNDMRF CASSPDRGGYEQYF	37	CIVRVHSGGGADGLTF CASTLSAGLNQPQHF	1		
4	CALSEVTTSGTYKYIF CASSYDRGGYEQYF	1	CAADTGGFKTIF CASSPDRGGYEQYF	1		
5			CAADTGGFKTIF CASTLSAGLNQPQHF	1		

**(iii) Affected skin: CDR3 $\alpha\beta$  expression of CD8 Tconv cells selected by each top clonotype**

TCR	Cells expressing clonotype 1		Cells expressing clonotype 2		Cells expressing clonotype 3	
	CDR3 $\alpha$ /CDR3 $\beta$	Ct.	CDR3 $\alpha$ /CDR3 $\beta$	Ct.	CDR3 $\alpha$ /CDR3 $\beta$	Ct.
1	CALSEVTTSGTYKYIF CASSPDRGGYEQYF	20	CALSEVTTSGTYKYIF CASSPDRGGYEQYF	10	CALSEVTTSGTYKYIF CASSQDRGGYEQYF	27
2	CIVRVHSGGGADGLTF CASSPDRGGYEQYF	10	CIVRVHSGGGADGLTF CASSPDRGGYEQYF	10		
3	CVVNNARNNDMRF CASSPDRGGYEQYF	4				

**Extended Data Figure 5. Top expanded TCR $\alpha\beta$  clonotypes in CD8 Tconv in**

**affected skin and blister fluid have shared expression on dual TCR $\alpha\beta$ <sup>+</sup> T-cells.** (i) Expression of each of the top 3 dominantly-expanded TCR on CD8 Tconv cells in blister fluid from a patient with SJS/TEN. Cells expressing each clonotype are circled in black. (ii) The TCR clonotypes and counts expressed by cells selected for expression of each top clonotype individually in SJS/TEN blister fluid. (iii) The TCR clonotypes and counts expressed by cells selected for expression of each top clonotype individually in SJS/TEN affected skin. Grey highlight indicates TCR expressed by the same cells. Ct., cell count. *Tconv*, *T conventional cell*; *TCR*, *T-cell receptor*; *CDR*, *complimentary-determining region*; *Ct.*, *Count*.