

Supplementary Figure 1

a Predicted cleavage sites of multiple protease families

M S Q I M Y N Y P A M L G A N T M A M M A R D T A E A A K W M L V L L V A V L V T A V Y A F V H A E I S T N I R Q A G V Q Y S R A D E
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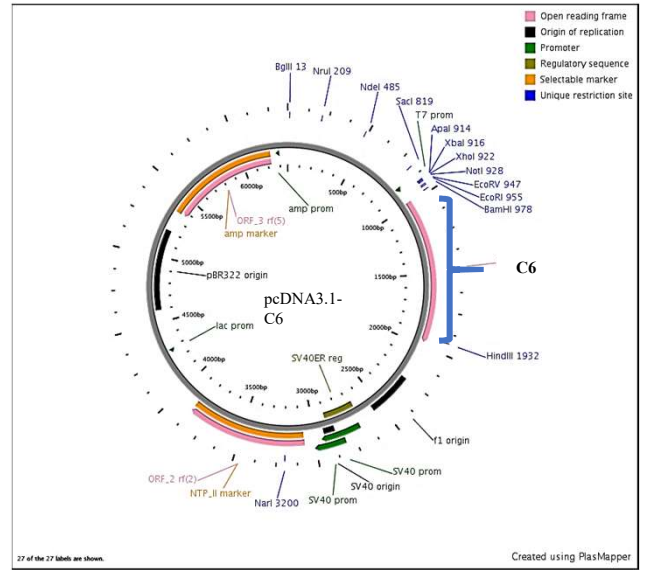
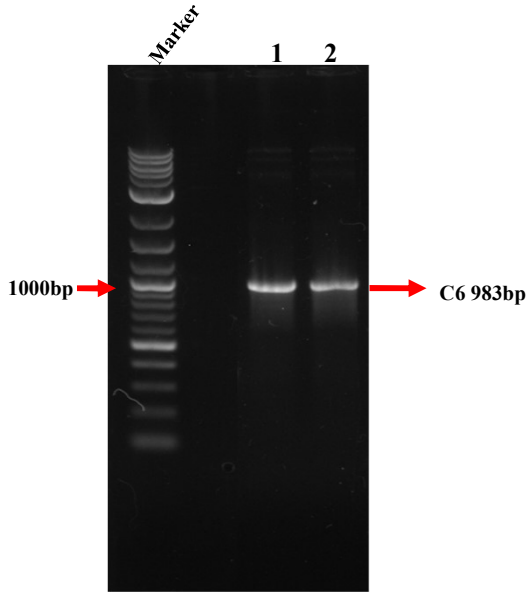
- Cleaved by Aspartic protease after this residue (P1 position)
- Cleaved by Cysteine protease after this residue (P1 position)
- Cleaved by Metalloprotease after this residue (P1 position)
- Cleaved by Serine protease after this residue (P1 position)
- Cleaved by different multiple protease superfamilies after this position (P1 position)

b 5'-GGATCC

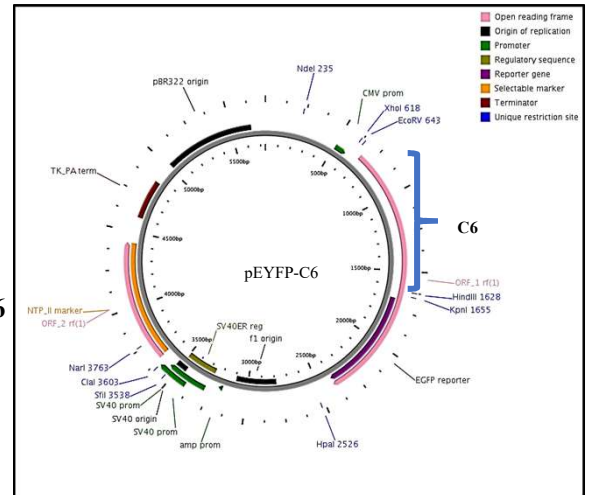
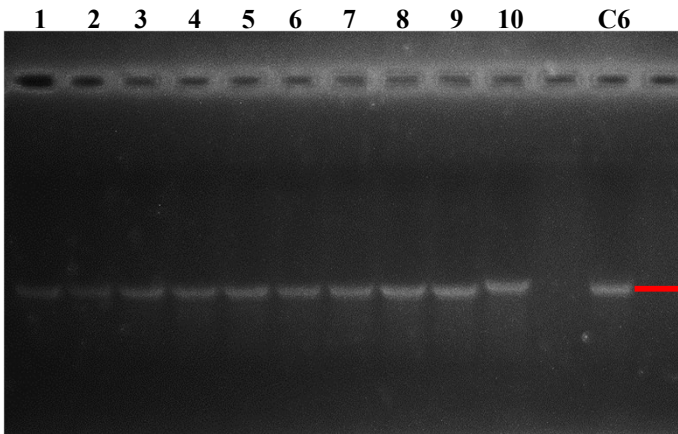
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TGAAAGCTT-3'

Supplementary Figure 2

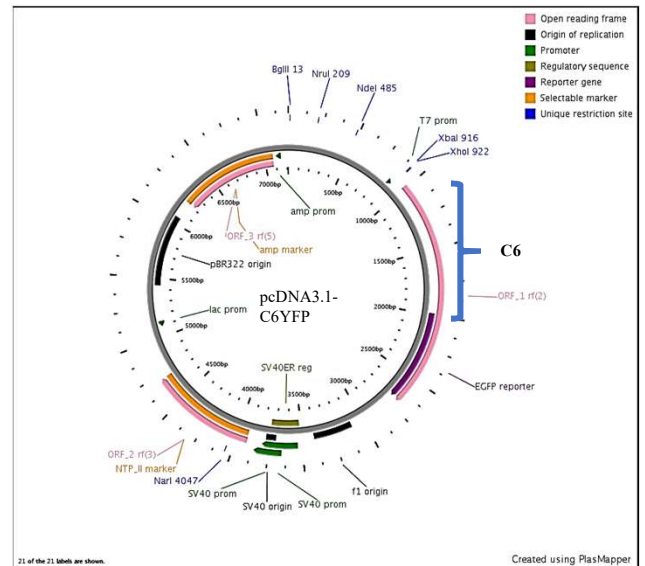
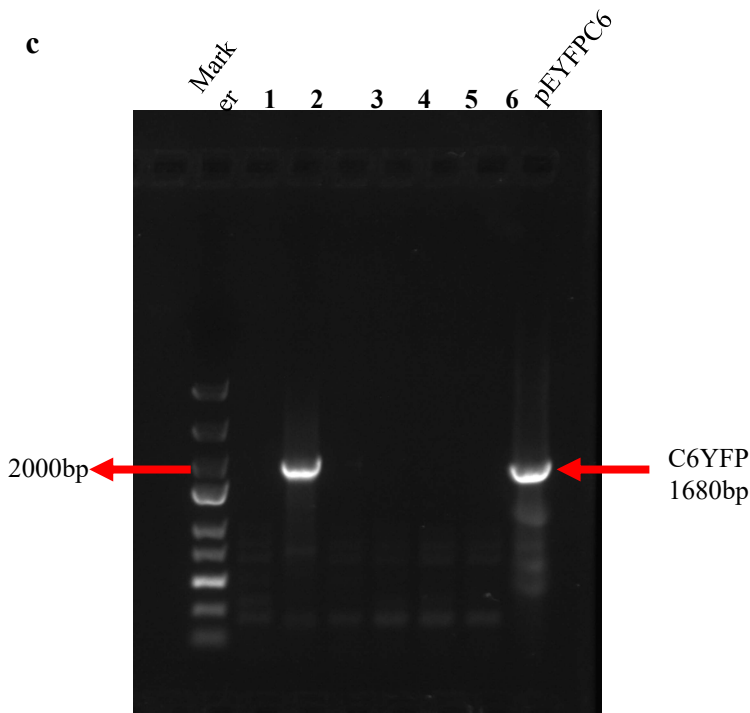
a



b

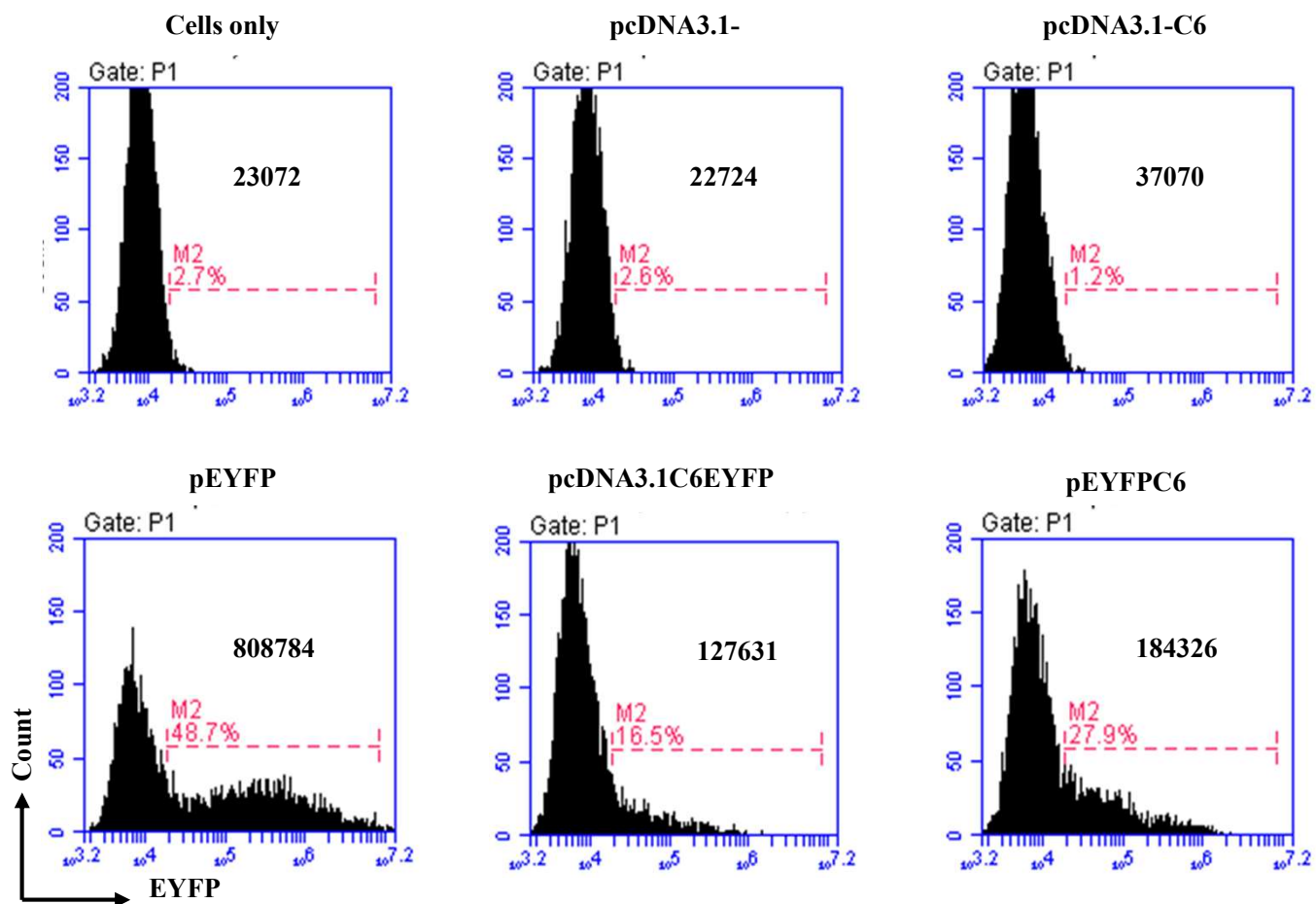


c

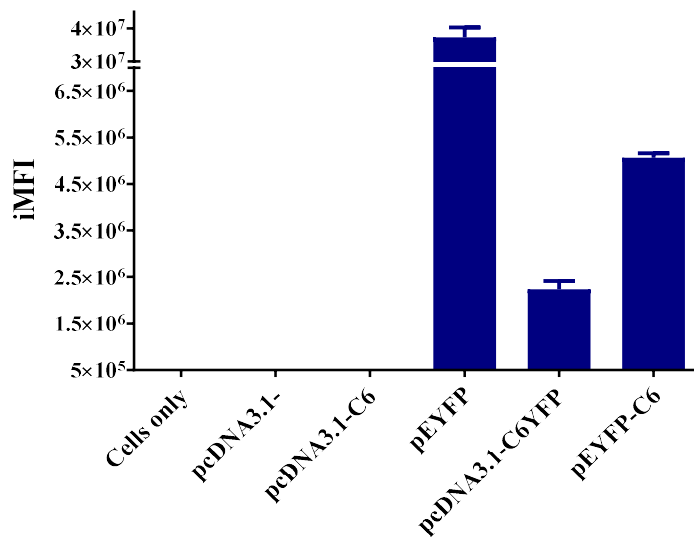


Supplementary Figure 3

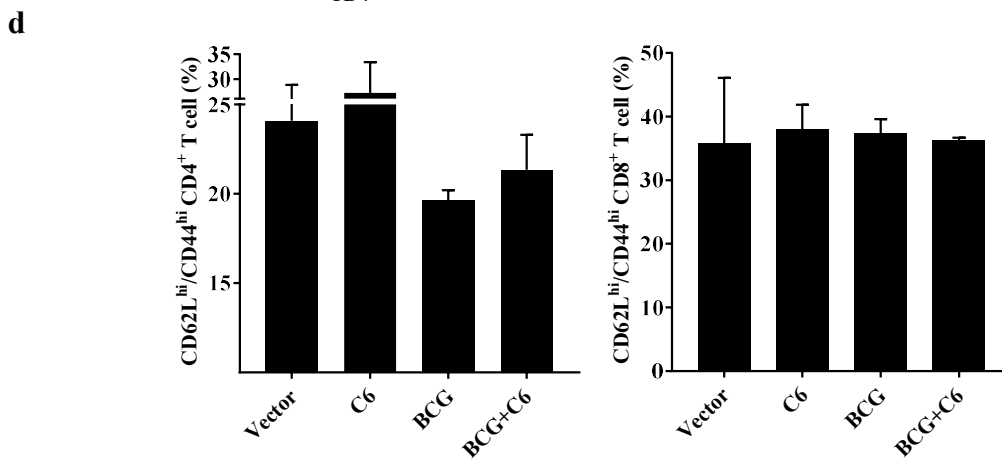
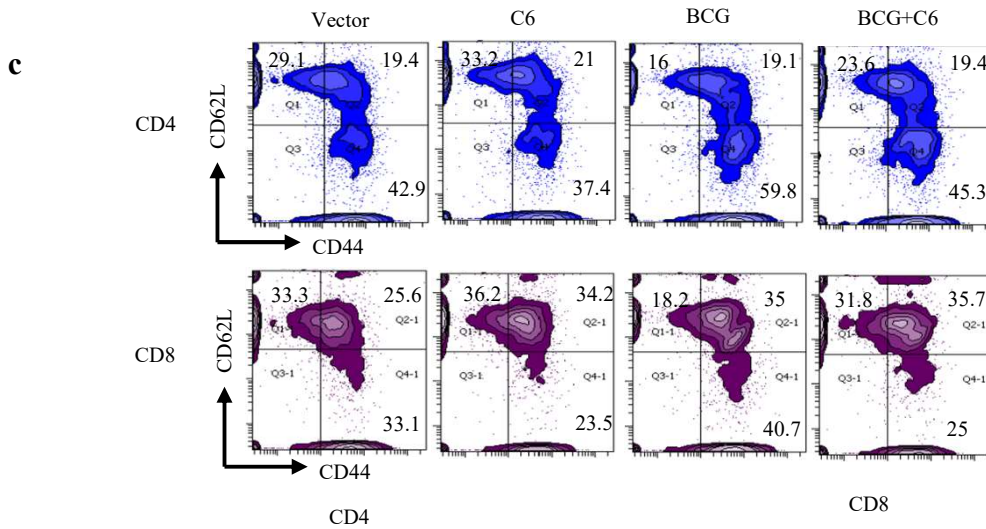
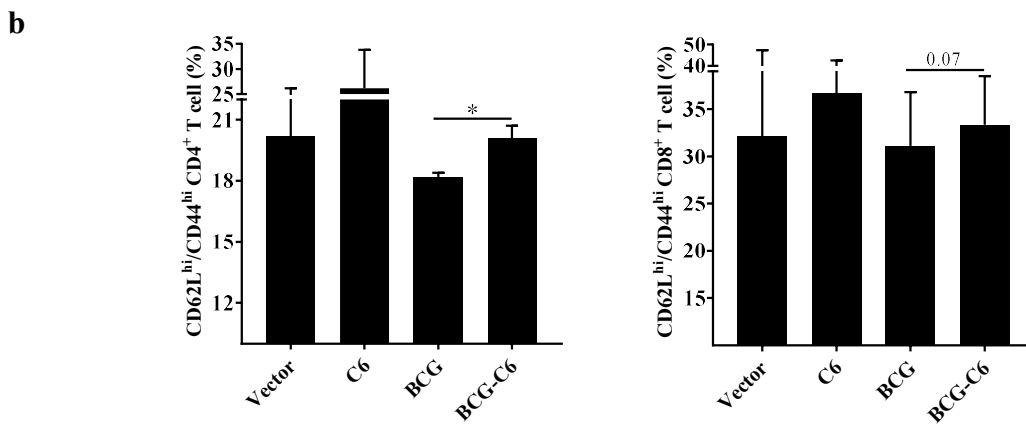
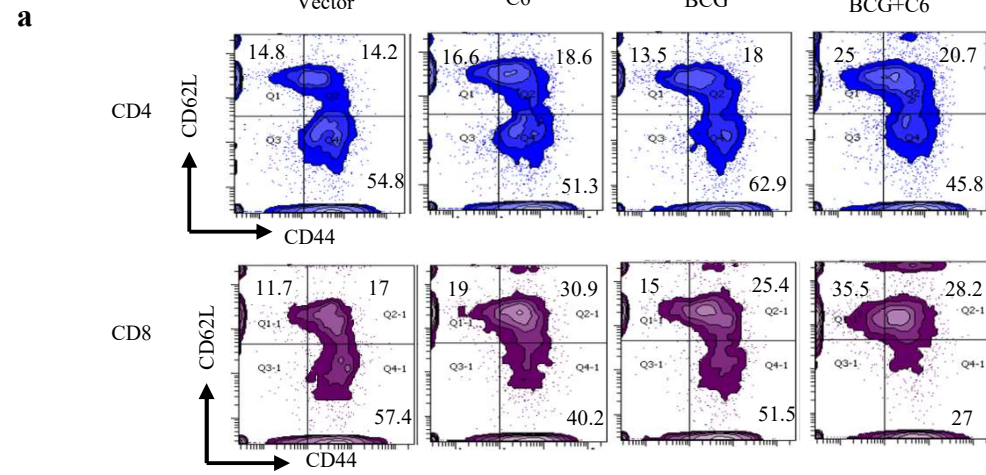
a



b

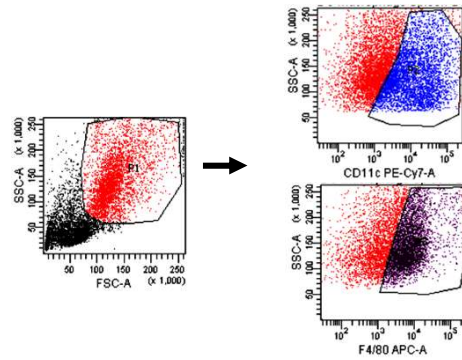


Supplementary Figure 4

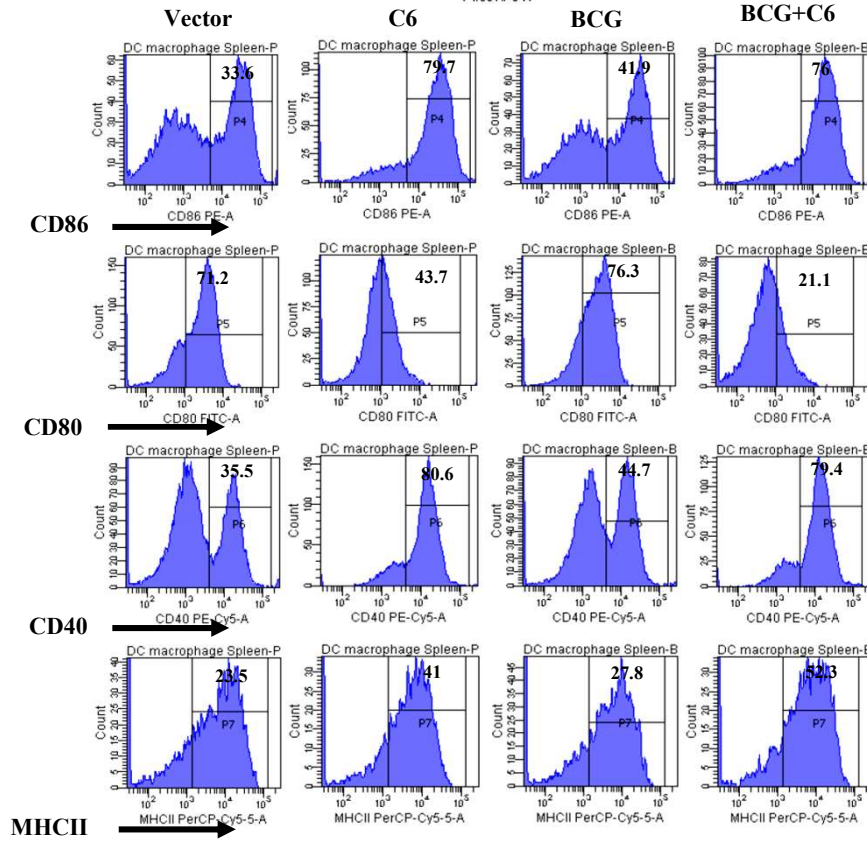


Supplementary Figure 5

a



b



c

