Supplementary Material for

## BRD7 Functions as a Key Factor for the Assembly of PBAF Complex and Facilitates the

## **Differentiation of Effector CD8<sup>+</sup> T cells**

Feng Huang, Yingtong Lin, Yidan Qiao, Yaochang Yuan, Zhihan Zhong, Baohong Luo, Yating Wu, Jun Liu, Jingliang Chen, Wanying Zhang, Hui Zhang, and Bingfeng Liu

# These authors contributed equally to this work \*Corresponding author. Email: <u>rkwdh7@mail.sysu.edu.cn</u>

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| Primer              | Sequence (5' $\rightarrow$ 3')  |        |        |                 | Tm   |
|---------------------|---|--------|--------|-----------------|------|
| P1                  | AAGTAGAACAGACACCCCTTCAGGAA  |        |        |                 | 57.6 |
| P2                  | ΠGCCAGΠΑΑΑΑCAGACCAAATGAG  |        |        |                 | 57.6 |
| Cycling<br>Reaction | Step  | Temp   | Time   | Note            |      |
|                     | 1   | 94 °C  | 5 min  |                 |      |
|                     | 2   | 94 ° C | 30 sec |                 |      |
|                     | 3   | 58 ° C | 30sec  |                 |      |
|                     | 4   | 72 ° C | 1 min  | 34 repeats to 2 |      |
|                     | 5   | 72 ° C | 5 min  |                 |      |
|                     | 6   | 12° C  | Hold   |                 |      |
| Result              | PCR Products:Mutant:359bp ; WT:239bp. Separated by gel<br>electrophoresis on a 1.2% agarose gel. Marker: DL2000 (Takara, Code<br>number: D501A) |        |        |                 |      |
|                     | 359bp 239bp   |        |        |                 |      |
| Genotype            | WT: one band with 239bp; Heterozygous: two bands with 239and 359bp.   |        |        |                 |      |

Figure S1. Construction process of the BRD7-knockout mouse.



Figure S2. Removal of BRD7 in T cells with the CD4-cre deleter.



Figure S3. Wild-type (*Brd7*<sup>fl/fl</sup>) or BRD7-deficient CD4+ T cells were collected and lysed, and subsequently subjected to western blot analysis to compare the expression differences of BRD family proteins between the two groups.



Figure S4. BRD7 deficiency impaired effector differentiation. Data are representative of three independent experiments.



Figure S5. BRD7-deficiency did not alter the proliferation or apoptosis of antigen-specific CD8+ T cells.