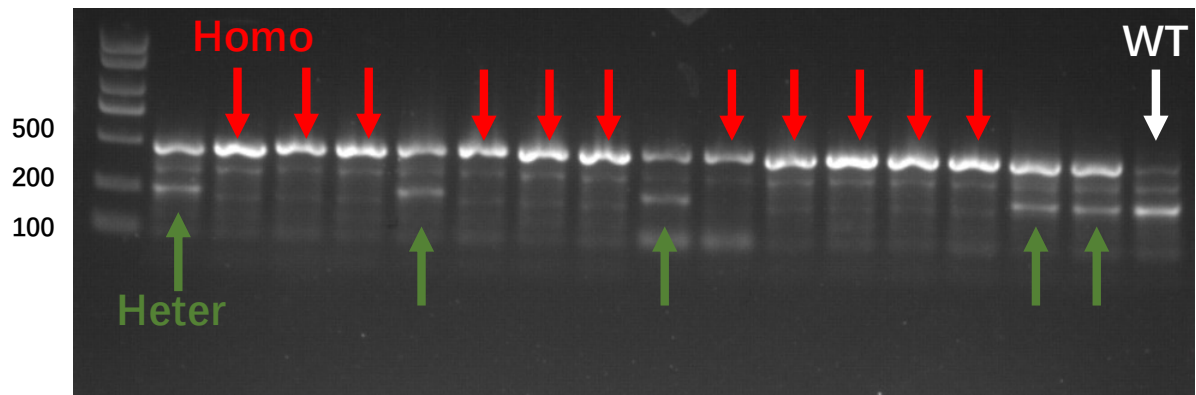


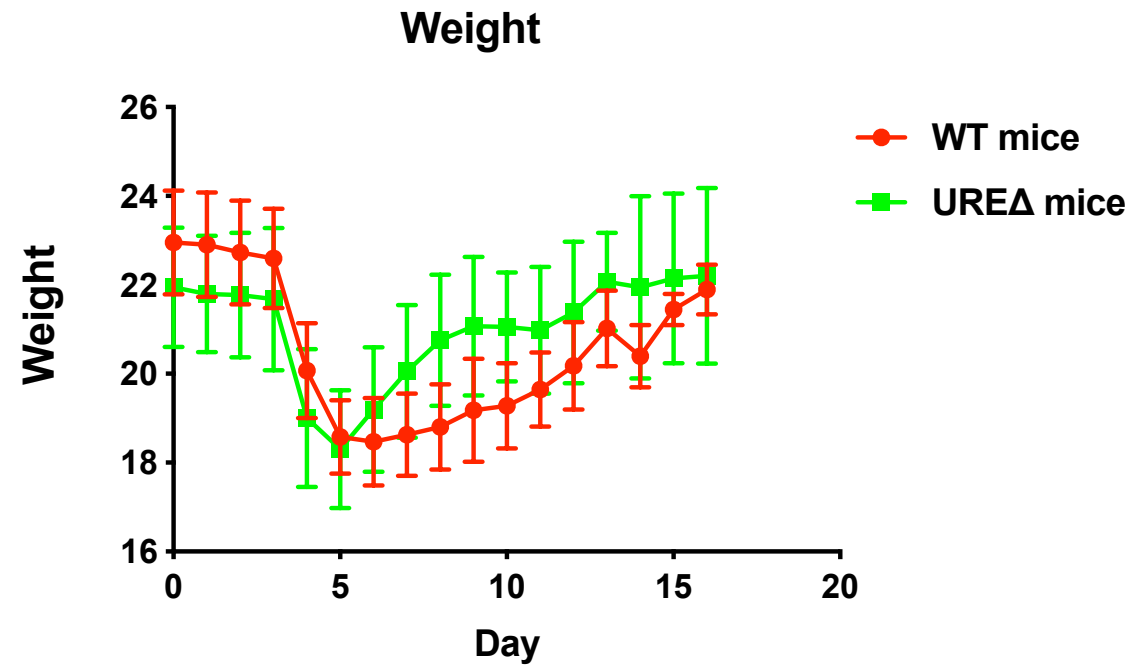
# Supplementary information

Supplementary figure S1: The genotyping results of UREAΔ mice.

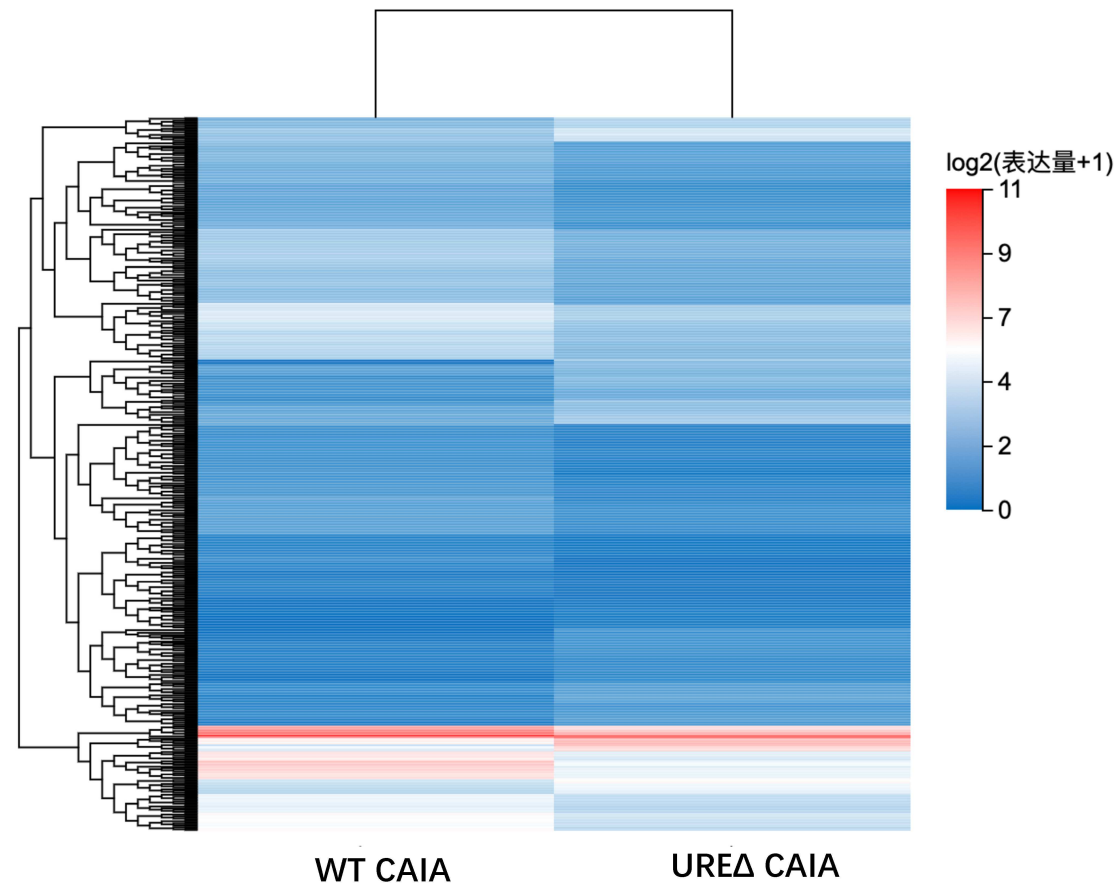


Mutant=450bp  
Heter=205bp and 450bp  
WT=205bp

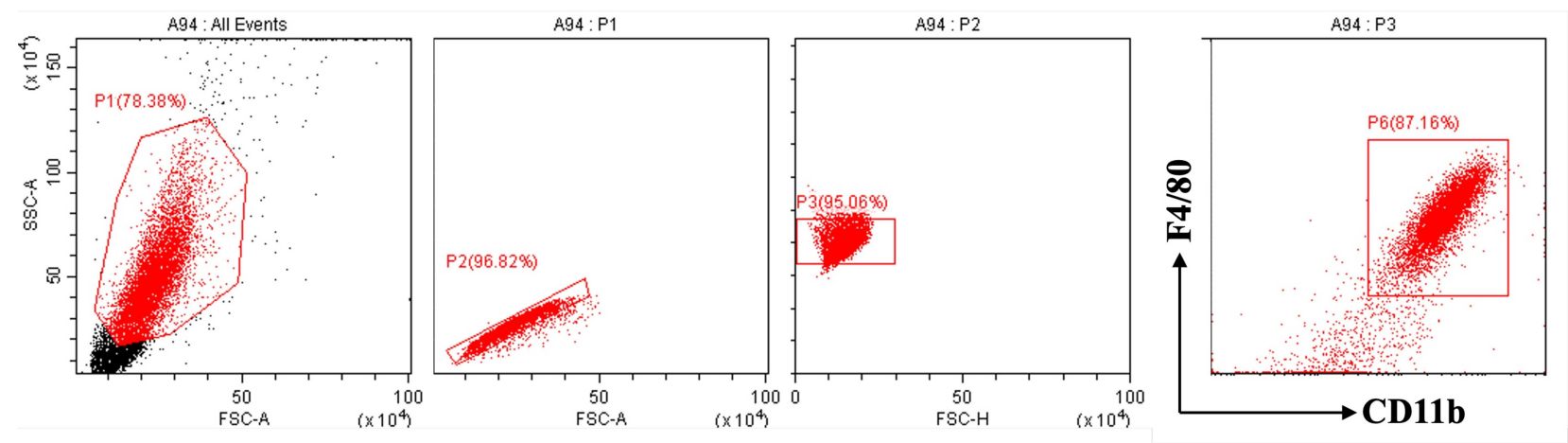
Supplementary figure S2: The body weight change of WT and UREA mice during establishment of CAIA model.



Supplementary figure S3: The heatmap of RNA-seq in PBMC from WT CAIA and UREΔ CAIA mice.

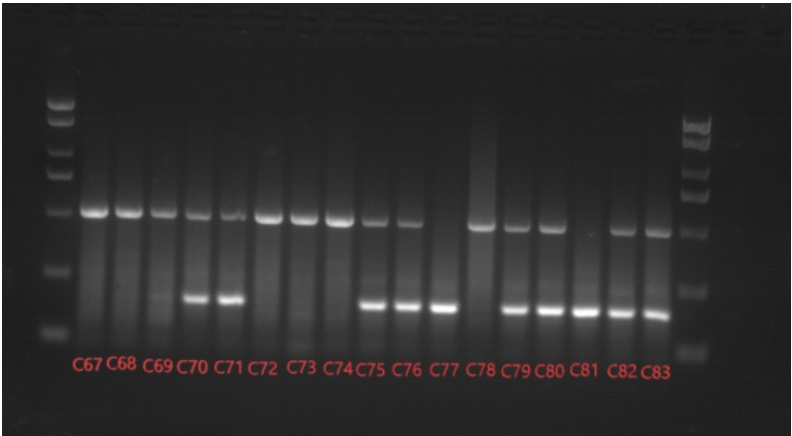


Supplementary figure S4: The percentage of F4/80<sup>+</sup>CD11b<sup>+</sup> peritoneal macrophage from CAIA model.



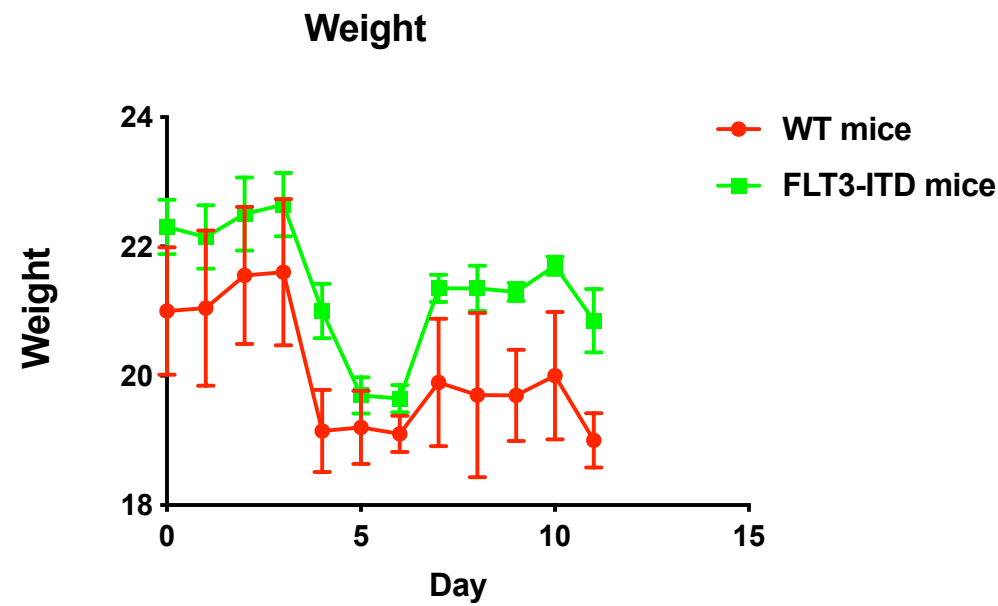
Supplementary figure S5: The genotyping results of FLT3-ITD mice

Mutant = ~500 bp  
Heterozygote = 163 bp and ~500 bp  
Wild type = 163 bp

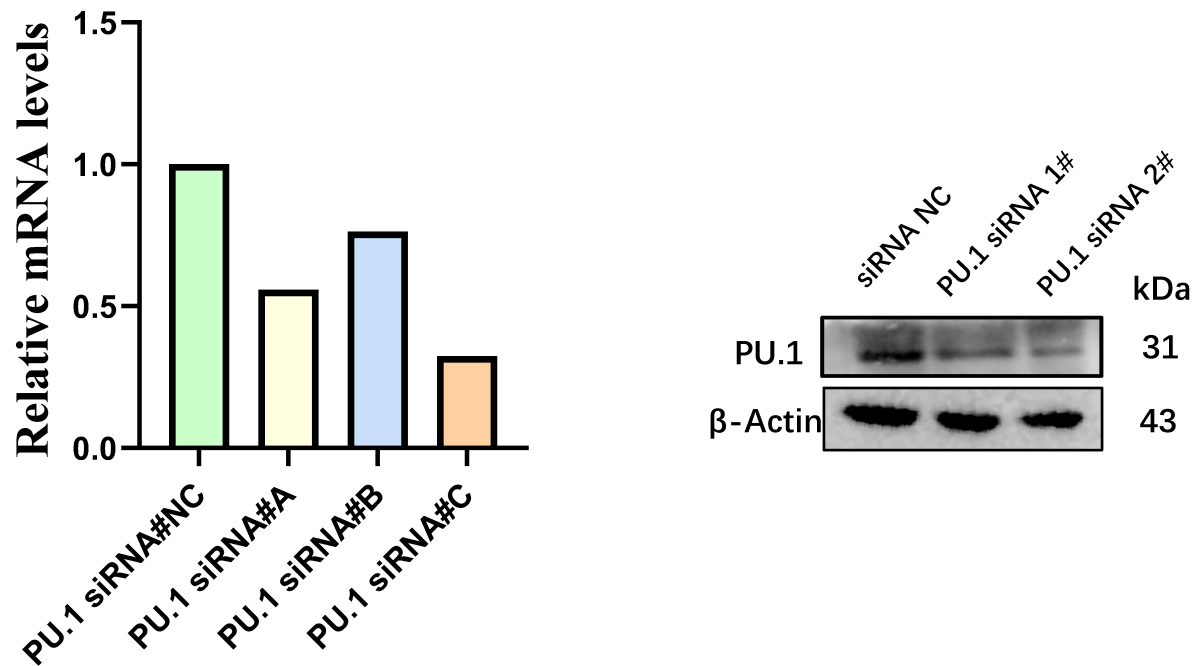


C67	C68	C69	C70	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83
mutant	mutant	heter	heter	heter	mutant	mutant	mutant	heter	heter	WT	mutant	heter	heter	WT	heter	heter

Supplementary figure S6: The body weight change of WT and FLT3-ITD mice during establishment of CAIA model.

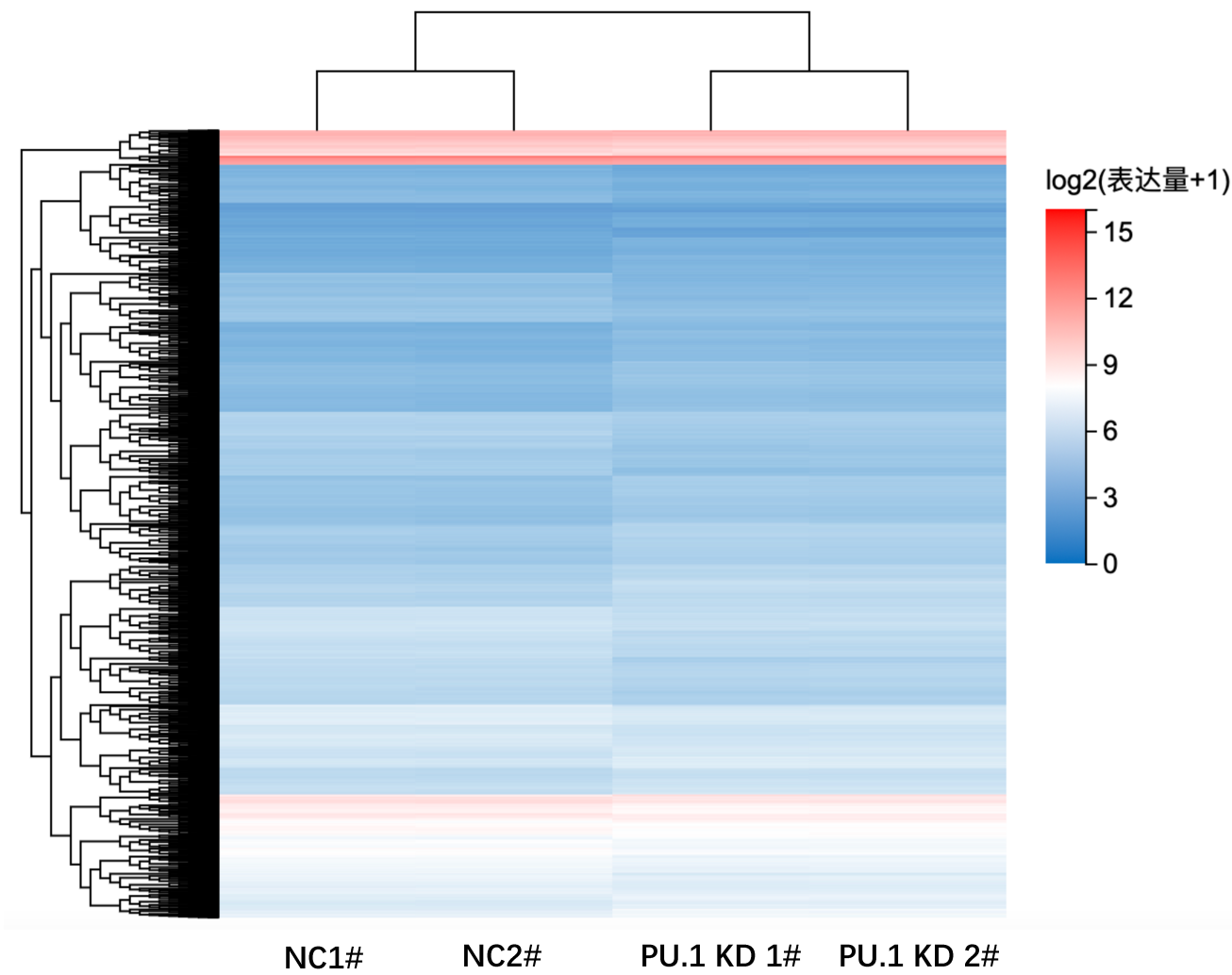


Supplementary figure S7: The knockdown efficiency of PU.1 siRNA.

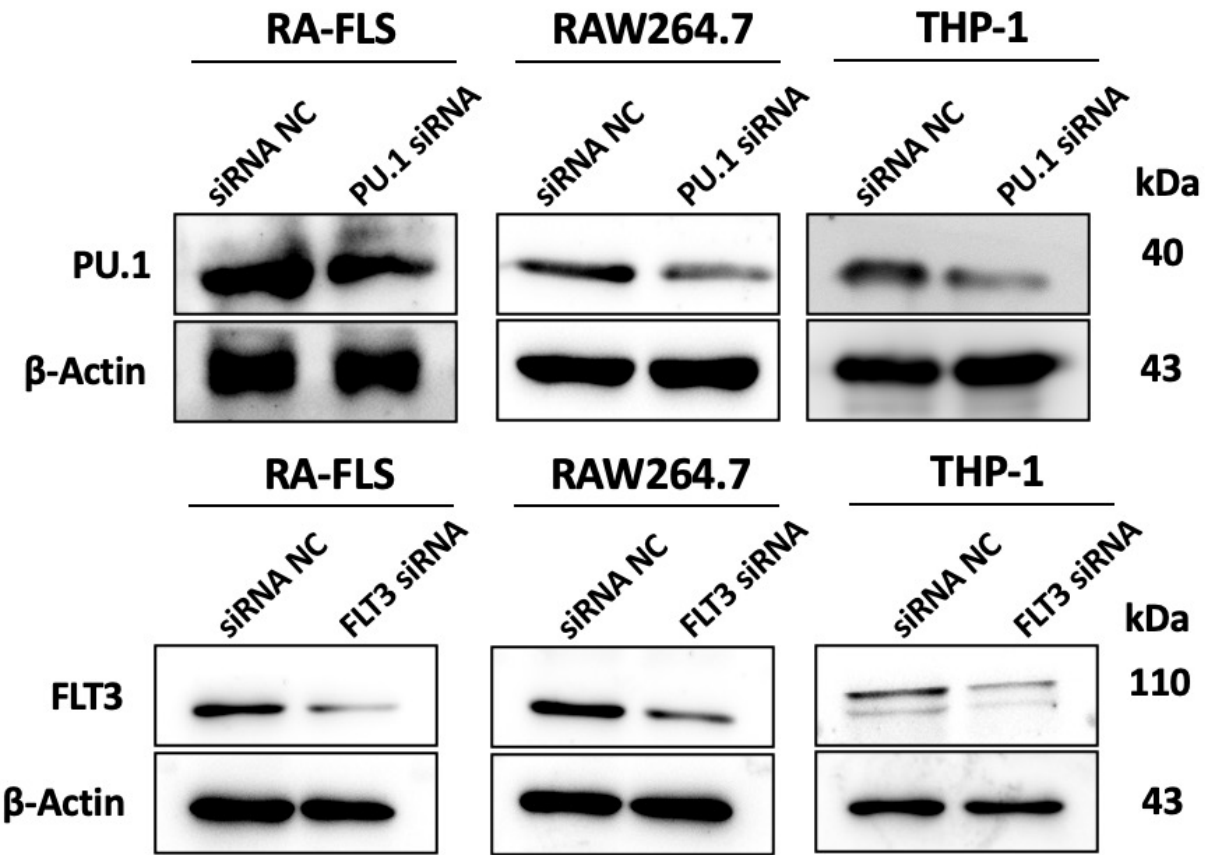




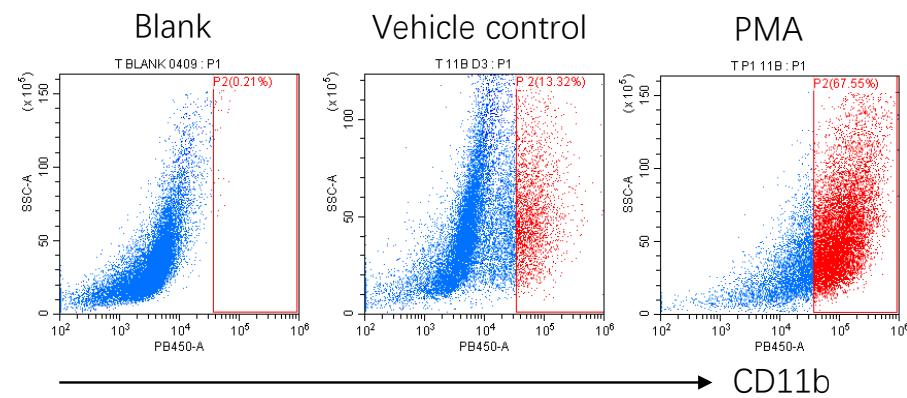
Supplementary figure S8: The heatmap of RNA-seq in RA-FLS (NC group) and RA-FLS (PU.1 KD group).



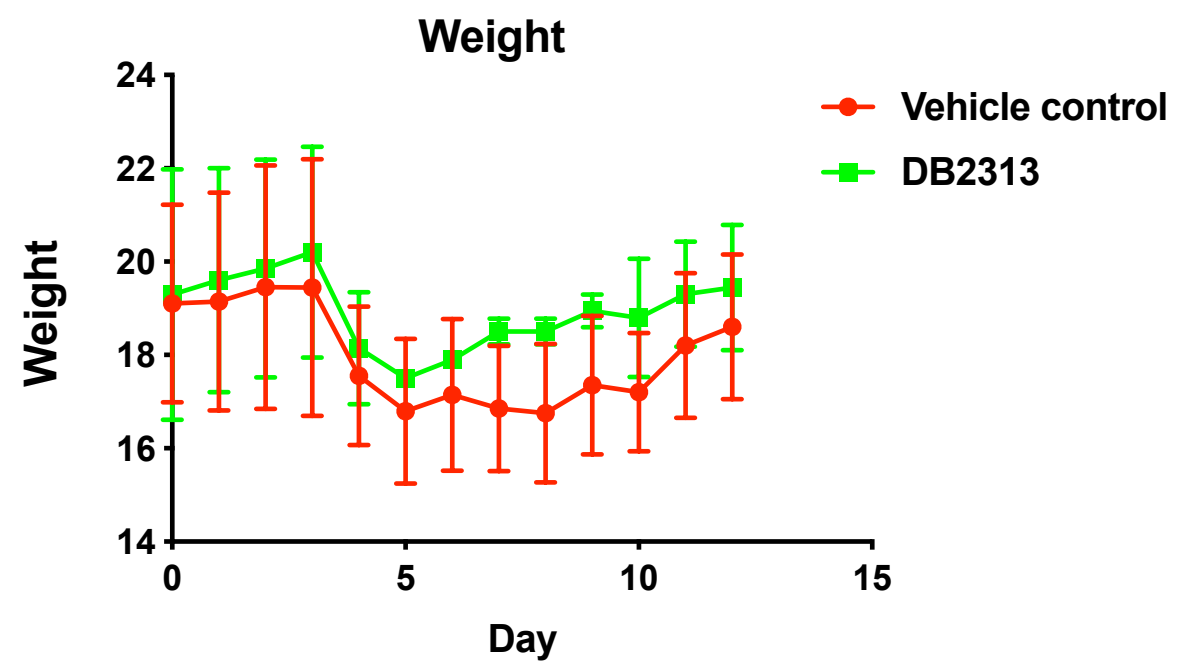
Supplementary figure S9: The knockdown efficiency of PU.1 and FLT3 siRNAs.



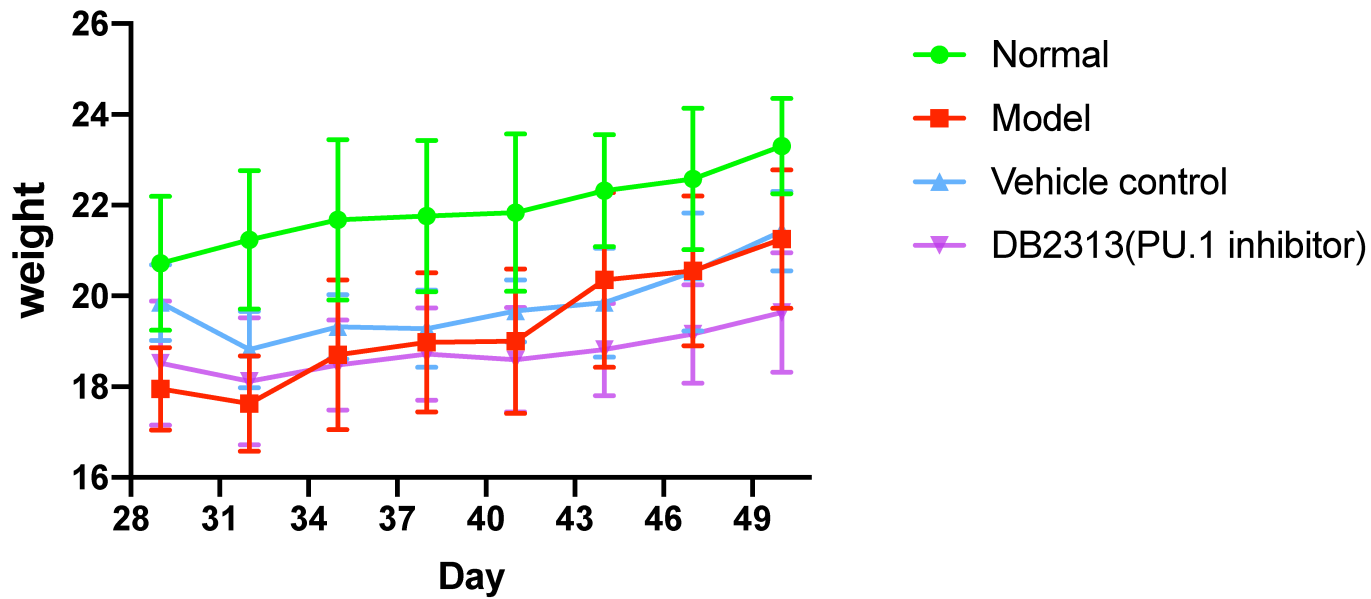
Supplementary figure S10: PMA-induced differentiation efficiency of THP-1-M.



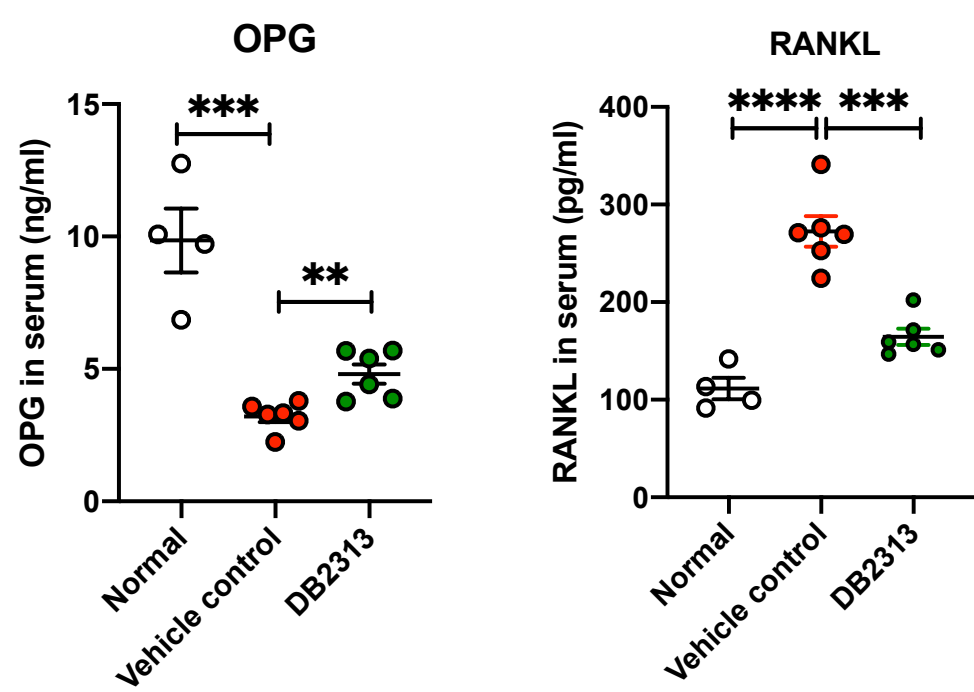
Supplementary figure S11: The body weight change of DBA mice during establishment of CAIA model (control and DB2313 group).



Supplementary figure S12: The body weight change of DBA mice during establishment of CIA model (control and DB2313 group).



Supplementary figure S13: The body weight change of DBA mice during establishment of CIA model (control and DB2313 group).



Supplementary Table S1: The clinical information of normal control, OA and RA patients

	Section	admission No.	file No.	start date	leave date	Inpatient day	bed No.	Age	Gender	Tel
RA patients 1#	Department of Orthopaedics	17170075	1907-骨5东关节*114-00001	2019-06-21	2019-07-01	10	0024	67	Male	13965020625
RA patients 2#	Department of Orthopaedics	17170850	1907-骨5东关节*114-00002	2019-06-23	2019-07-05	12	0017	52	Female	15956073840
RA patients 3#	Department of Orthopaedics	17179074	1907-骨5东关节*114-00004	2019-07-10	2019-07-30	20	0028	30	Male	18056025717
RA patients 4#	Department of Orthopaedics	17206794	1909-骨5东关节*114-00005	2019-09-15	2019-09-27	12	0012	55	Female	18555398778
OA patients 1#	Department of Orthopaedics	17175702	1912-骨5东关节*115-00025	2019-11-25	2019-12-12	17	0033	65	Male	18455169736
OA patients 2#	Department of Orthopaedics	17236414	1912-骨5东关节*115-00027	2019-11-28	2019-12-13	15	0032	62	Female	15212571656
OA patients 3#	Department of Orthopaedics	17235509	1912-骨5东关节*115-00026	2019-11-26	2019-12-13	17	0007	70	Male	15055905756
OA patients 4#	Department of Orthopaedics	17160934	1906-骨5东关节*115-00004	2019-06-03	2019-06-14	11	0006	62	Female	13866119707
Normal control 1#(femoral fracture)	Department of Orthopaedics	2018074232	2018骨7东老1E*163*1808-00005	20180825	20180826	1	112	63	Male	13399696235
Normal control 2#(patellar fracture)	Department of Orthopaedics	2018018337	2018骨7东老1E*161*1803-00034	20180308	20180308	1	30	64	Male	18856428271