



Supplementary Fig. S1. Correlation between peripheral CD8+ T cell counts and the frequency of exhausted T cell in patients with anti-MDA5+ DM. Spearman correlation analysis was used. DM: dermatomyositis.

Supplementary Table S1. Identification of fungal infection in 13 anti-MDA5+ DM patients.

No	Sex/age	Detection and identification results of fungi	Specimen	TMP/SMZ prophylaxis
1	F/65	GM+	BALF	No
2	F/57	Penicillium	BALF	Yes
3	M/39	Pneumocystis jirovecii	BALF	Yes
4	M/25	GM+	blood	Yes
5	M/53	Pneumocystis jirovecii	BALF	Yes
6	M/40	Candida krusei	Lung biopsy tissue	No
7	M/56	Pneumocystis jirovecii, Aspergillus lentulus	BALF	No
8	F/49	GM+	blood	Yes
9	M/53	Pneumocystis jirovecii	BALF	Yes
10	M/51	Pneumocystis jirovecii	BALF	No
11	F/26	Candida parapsilosis, Pneumocystis jirovecii	BALF	No
12	M/64	Pneumocystis jirovecii	BALF	No
13	M/44	Pneumocystis jirovecii	BALF	No

F: female; M: male; GM: galactomannan antigen assay; BALF: bronchoalveolar lavage fluid; TMP/SMZ: trimethoprim-sulfamethoxazole.