

Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

B6.129S4-Cd80^{tm1Shr} Cd86/J

RRID:IMSR_JAX:003610

Type: Organism

Proper Citation

RRID:IMSR_JAX:003610

Organism Information

URL: <https://www.jax.org/strain/003610>

Proper Citation: RRID:IMSR_JAX:003610

Description: Mus musculus with name B6.129S4-Cd80^{tm1Shr} Cd86/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S4-Cd80 Cd86/J

Notes: gene symbol note: CD86 antigen|CD80 antigen; mutant strain|congenic strain: Cd86|Cd80

Affected Gene: CD86 antigen|CD80 antigen

Genomic Alteration: targeted mutation 2; Arlene H Sharpe|targeted mutation 1; Arlene H Sharpe

Catalog Number: JAX:003610

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6.129S4-Cd80^{tm1Shr} Cd86/J

Record Creation Time: 20250513T053640+0000

Record Last Update: 20260919T054830+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Cd80^{tm1Shr} Cd86/J.

No alerts have been found for B6.129S4-Cd80^{tm1Shr} Cd86/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Zhao Y, et al. (2023) cis-B7:CD28 interactions at invaginated synaptic membranes provide CD28 co-stimulation and promote CD8+ T cell function and anti-tumor immunity. Immunity.

Watanabe M, et al. (2022) Antigen-presenting T cells provide critical B7 co-stimulation for thymic iNKT cell development via CD28-dependent trogocytosis. Cell reports, 41(9), 111731.

Lightman SM, et al. (2021) Indoleamine 2,3-dioxygenase 1 is essential for sustaining durable antibody responses. Immunity, 54(12), 2772.

Watanabe M, et al. (2020) B7-CD28 co-stimulation modulates central tolerance via thymic clonal deletion and Treg generation through distinct mechanisms. Nature communications, 11(1), 6264.

Zenke S, et al. (2020) Quorum Regulation via Nested Antagonistic Feedback Circuits Mediated by the Receptors CD28 and CTLA-4 Confers Robustness to T Cell Population Dynamics. Immunity, 52(2), 313.

Wolf Y, et al. (2019) UVB-Induced Tumor Heterogeneity Diminishes Immune Response in Melanoma. Cell, 179(1), 219.

Klein Geltink RI, et al. (2017) Mitochondrial Priming by CD28. Cell, 171(2), 385.

Zhong J, et al. (2014) T-cell costimulation protects obesity-induced adipose inflammation and insulin resistance. Diabetes, 63(4), 1289.

Rozanski CH, et al. (2011) Sustained antibody responses depend on CD28 function in bone marrow-resident plasma cells. The Journal of experimental medicine, 208(7), 1435.