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Antibody Expressing Positive Control Vector

Cat. no.	Amount	Storage
A14662	150 µg (at 1 mg/mL)	-20°C
Pub. Part no. 100014710	Pub. no. MAN0006286	Rev. A.0

Description

Antibody Expressing Positive Control Vector is provided as a positive control for transfection and expression in Expi293F[™] and ExpiCHO-S[™] cells. The control contains pcDNA3.4 plasmid clones expressing the heavy and light chains of a rabbit IgG. The control is provided as a ready-to-use transfection-grade plasmid at a concentration of 1 mg/mL with a 2:1 light chain:heavy chain ratio and is sufficient to transfect up to 150 mL of Expi293F[™] or ExpiCHO-S[™] cells.

Optimized transfection conditions for Expi293F[™] cells

Culture volume to transfect: 25.5 mL

Number of cells to transfect: 7.5×10^7 cells (final cell density of 2.5×10^6 cells/mL) with >95% viability

Amount of control plasmid DNA: 30 µL (1 µg of plasmid DNA per mL of Expi293F[™] culture to be transfected)

Amount of ExpiFectamine[™] 293 Reagent: 80 µL

For detailed instructions to transfect suspension Expi293F[™] cells, see the Expi293[™] Expression System user guide (Pub. no. MAN0006696), available for download at **www.thermofisher.com/expi293**.

Expression in Expi293F[™] cells

The rabbit IgG expressed by the control will be secreted into the Expi293[™] Expression Medium. Expression can be detected by day 3 post-transfection; however maximum yield is obtained 6–7 days post-transfection. The expected yield of the control IgG is approximately 200–300 mg IgG per liter of culture on day 7.

For Research Use Only. Not for use in diagnostic procedures.



Optimized transfection conditions for ExpiCHO-S[™] cells

Culture volume to transfect: 25 mL

Number of cells to transfect: 1.5×10^8 cells (final cell density of 6×10^6 viable cells/mL)

Amount of control plasmid DNA: 20–25 µL (0.8–1 µg of plasmid DNA per mL of ExpiCHO-S[™] culture to be transfected)

Amount of ExpiFectamine[™] CHO Reagent: 80 µL

Note: For detailed instructions to transfect suspension ExpiCHO-S[™] cells, see the ExpiCHO[™] Expression System user guide (Pub. no. MAN0014337), available for download from **www.thermofisher.com/expicho**.

Expression in ExpiCHO-S[™] cells

The rabbit IgG that is produced in ExpiCHO-S[™] cells after transfection with the control vector is secreted into the ExpiCHO[™] Expression Medium, with optimal yields obtained between 8–10 days for the Standard protocol (200–300 mg/L), 10–12 days for the High Titer protocol (300–500 mg/L), and 12–14 days for the Max Titer protocol (>500 mg/L).

Note: The titer values referenced above were determined in crude cell culture supernatants using a Pall Life Sciences FortéBio[™] Octet[™] instrument equipped with a protein A biosensor.

Related Products

Product	Cat. no.
Expi293F TM Cells (1 × 10 ⁷ cells)	A14527
ExpiCHO-S TM Cells (1 × 10^7 cells)	A29127
Expi293 [™] Expression Medium	A14351
ExpiCHO [™] Expression Medium	A29100
ExpiFectamine [™] 293 Transfection Kit for 1L of culture	A14524
ExpiFectamine [™] CHO Transfection Kit for 1L of culture	A29129
Opti-MEM [™] I Reduced Serum Medium	31985
OptiPro [™] SFM	12309
Protein A	101006
F(ab') ₂ fragment of goat anti rabbit (H+L), horseradish peroxidase conjugate	A10547
Purified Rabbit IgG	02-6102
SimplyBlue [™] Safestain	LC6060

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.lifetechnologies.com/termsandconditions**. If you have any questions, please contact Life Technologies at **www.lifetechnologies.com/support**.

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