

Recombinant Mouse Tfcp2l1 Protein, Myc/DDK-tagged

Cat. No. Tfcp2l1-6376M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length transcription factor CP2-like 1 (Tfcp2l1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Transcription factor that facilitates establishment and maintenance of pluripotency in embryonic stem cells (ESCs). With Klf2, acts as the major effector of self-renewal that mediates induction of pluripotency downstream of LIF/Stat3 and Wnt/beta-catenin signaling. Required for normal duct development in the salivary gland and kidney. Coordinates the development of the kidney collecting ducts intercalated (IC) and principal (PC) cells, which regulate acid-base and salt-water homeostasis, respectively. Regulates the expression of IC genes including subunits B1 and D2 of the V-ATPase complex, Oxgr1, Ca12, Slc4a1, Aqp6 and IC-specific transcription factor Foxi1. Regulates also the expression of Jag1 and subsequent notch signaling in the collecting duct. Jag1 initiates notch signaling in PCs but inhibits notch signaling in ICs. Acts as a transcriptional suppressor that may suppress UBP1-mediated transcriptional activation. Modulates the placental expression of CYP11A1.
Molecular Mass	54.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Tfc2l1 transcription factor CP2-like 1 [Mus musculus (house mouse)]

Official Symbol Tfc2l1

Synonyms TFCP2L1; transcription factor CP2-like 1; transcription factor CP2-like protein 1; transcription repressor CRTR-1; CP2-related transcriptional repressor 1; Tfc2l1-related transcriptional repressor 1; Cp2l1; LBP-9; Crtr-1; AA575098; Tfc2l1; 1810030F05Rik; 4932442M07Rik; D930018N21Rik

Gene ID 81879

mRNA Refseq NM_023755

Protein Refseq NP_076244

UniProt ID Q3UNW5

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