

Product datasheet for **MC216695**

Tfcp2l1 (NM_023755) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfcp2l1 (NM_023755) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tfcp2l1
Synonyms:	1810030F05Rik; 4932442M07Rik; AA575098; Cp2l1; Crtr-1; D930018N21Rik; LBP-9; Tfcp2l1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC216695 representing NM_023755
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGTTCTGGCACACGCAGCCGAACACTACAACCAGCACAACCTCTGGCAGCTACTTGGGTGATGTGC
 TGGCTCTGCCTATCTTCAAGCAGGAAGAGCCGAGCTATCTCCTGAGAATGGGGCCCGCTTGCCGCCCT
 ACAGTATGTGTTGTGCGCCACCTCTCCAGCGTGAAGCTACATGAAGAGACCTTAACATACCTCAAT
 CAAGGTGAGTCGATGAAATCCGGCTGCTGGAGAATCGGAAGCTAGGGGACTTCCAAGATCTGAACACGA
 AATATGTGAAGAGCATCATCCGTGTCGTTTTCCATGACCGCCGGCTGCAGTACACAGAGTACCAACAGTT
 GGAGGGTTGGCGGTGGAGTCGGCTGGGGACCGCATCCTGGACATTGATATTCCACTGTCTGTTGGTATC
 TTGGACCCAGGGCCAGCCCAACCCAGTGAATGCTGTGGAGTTTTGTGGGACCCATCGAAGAGAGCAT
 CTGCATTATTAGGTGACTGTATCAGCACGGAATCACCCCGGAAGCATGGGGGTGAGAAGGGAGT
 GCCTTTTCGGGTGAGATTGACACGTTTAAAGCAGAATGAGAGTGGGGACTACTCGGAGCATCTACTCT
 GCCAGCTGCCAGATCAAGGTGTTCAAGCCCAAGGGAGCTGATCGAAACAGAAGACTGACCGGGAAAAGA
 TGGAAAAAAGAACGGCTCAAGAGAAGGAGAAATACCAGCCATCCTATGAAACCACCATCCTTACCGAGTG
 TTCTCCATGGCCTGACGTCCCCTACCAGGCGAACAACACCCCATCCCAAGCTACAATGGCTCTCCCAAC
 AGCTTTGGCCTCCGTGAAGGTAACAGCTCACCTAATCACCCGGTGGAGCCCTTACCCCTGGGAGTGATC
 ACCTGCTCCCATCAGCCTCTATCCAGGATGCACAGCAGTGGTGCATCGAAACCGCTTCTCACAATTCTG
 CTGGCTCTTTGCCAGTCTCAGGTGCTGACCTCCTGAAGATGTCCAGAGATGATTTGGTCCAGGTTTGT
 GGCCCTGCAGATGGGATTCGGCTCTTCAATGCCATCAAAGGCAGGAATGTGAGGCCAAAGATGACCATCT
 ATGTCTGTCAGGAGCTGGAGCAAACCAACTACCCCTGCCACAGAAGCAGGATGACAGTGGGGATAACAG
 CCTGTGTATACCATGTATCTTCTGGAAGAGCTGACTACCCTGGAGCTGACTGAGAAGATCGCCAGC
 CTGTATAGCATCCCCCACGCACATCCACCGGTCTATCGACAGGGTCCCGCTGGCATCCACGTGGTGG
 TAAGCAATGAGATGGTTCAGAATTTCCAAGATGAGTCTTGTTTTATCCTCAGCACATTAAGCAGAAAAG
 CAATGATGGCTACCACATCATCTGAAGTGTGGACTCTGA

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_023755

Insert Size: 1440 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [BC116663](#), [AAI16664](#)

RefSeq Size: 6954 bp

RefSeq ORF: 1440 bp

Locus ID: 81879

UniProt ID: [Q3UNW5](#)

Cytogenetics: 1 E2.3

Gene Summary: Transcription factor that facilitates establishment and maintenance of pluripotency in embryonic stem cells (ESCs) (PubMed:23942233, PubMed:26321140). With Klf2, acts as the major effector of self-renewal that mediates induction of pluripotency downstream of LIF/Stat3 and Wnt/beta-catenin signaling (PubMed:23942238, PubMed:23942233, PubMed:26321140). Required for normal duct development in the salivary gland and kidney (PubMed:17079272). Coordinates the development of the kidney collecting ducts intercalated (IC) and principal (PC) cells, which regulate acid-base and salt-water homeostasis, respectively (PubMed:28577314). 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 (PubMed:28577314). Regulates also the expression of Jag1 and subsequent notch signaling in the collecting duct (PubMed:28577314). Jag1 initiates notch signaling in PCs but inhibits notch signaling in ICs (PubMed:28577314). Acts as a transcriptional suppressor that may suppress UBP1-mediated transcriptional activation (PubMed:11073954). Modulates the placental expression of CYP11A1 (By similarity).[UniProtKB/Swiss-Prot Function]