

Product datasheet for **MR226633**

Tfcp2l1 (NM_023755) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfcp2l1 (NM_023755) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



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ORF Nucleotide Sequence:

>MR226633 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTTCTGGCACACGCAGCCGAACACTACAACCAGCACAACCTCTGGCAGCTACTTGC GTGATGTGC
 TGGCTCTGCCTATCTTCAAGCAGGAAGAGCCGAGCTATCTCTGAGAATGGGGCCCGCTTGCCGCCCT
 ACAGTATGTGTTGTGTGCCGCCCTCTCCAGCGGTGAAGCTACATGAAGAGACCTTAACATACCTCAAT
 CAAGGTCAGTCGTATGAAATCCGGCTGTGGAGAATCGGAAGCTAGGGGACTTCCAAGATCTGAACACGA
 AATATGTGAAGAGCATCATCCGTGTGTTTTCCATGACCGCCGGTGCAGTACACAGAGTACCAACAGTT
 GGAGGGTTGGCGGTGGAGTCGGCTGGGACCGCATCTGGACATTGATATCCACTGTCTGTTGGTATC
 TTGGACCCAGGGCCAGCCCAACCCAGTGAATGCTGTGGAGTTTTTGTGGGACCATCGAAGAGAGCAT
 CTGCATTATTAGGTGCACTGTATCAGCACGGAATCACCCCGAGGAAGCATGGGGGTGAGAAGGGAGT
 GCCTTTTCGGGTGCAGATTGACACGTTTAAAGCAGAATGAGAGTGGGGACTACTCGGAGCATCTACACTCT
 GCCAGCTGCCAGATCAAGGTGTTCAAGCCCAAGGGAGCTGATCGGAAACAGAAGACTGACCGGGAAAAGA
 TGGAAAAAAGAACGGCTCAAGAGAAGGAGAAATACCAGCCATCCTATGAAACCACCATCCTTACCGAGTG
 TTCTCCATGGCCTGACGTCCCCTACCAGGCGAACAACACCCCATCCCCAAGCTACAATGGCTCTCCCAAC
 AGCTTTGGCCTCCGTGAAGGTAACAGCTCACCTAATCACCCGGTGGAGCCCTTACCCCTGGGCAGTGATC
 ACCTGCTCCCATCAGCCTCTATCCAGGATGCACAGCAGTGGTGCATCGAAACCGCTTCTCACAATTCTG
 CTGGCTCTTGGCAGTTCTCAGGTGCTGACCTCCTGAAGATGTCCAGAGATGATTTGGTCCAGGTTTGT
 GGCCCTGCAGATGGGATTCGGCTCTTCAATGCCATCAAAGGCAGGAATGTGAGGCCAAAGATGACCATCT
 ATGCTGTGCAGGAGCTGGAGCAAAACCACTACCCCTGCCACAGAAGCAGGATGACAGTGGGGATAACAG
 CCTGTGTGTATACCATGCTATCTTCTGGAAGAGCTGACTACCCCTGGAGCTGACTGAGAAGATCGCCAGC
 CTGTATAGCATCCCCCACAGCATCCACCGGTCTATCGACAGGGTCCCGCTGGCATCCACGTGGTGG
 TAAGCAATGAGATGGTTCAGAAATTTCCAAGATGAGTCTTGTTTTATCCTCAGCACATTAAGCAGAAAG
 CAATGATGGTACCACATCATCTGAAGTGTGGACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226633 protein sequence
 Red=Cloning site Green=Tags(s)

MLFWHTQPEHYNQHNSGYLRDVLALPIFKQEEPQLSPENGARLPPLQYVLCATSPAVKLHEETLTLYLN
 QQQSYEIRLLENRKLGDQDLNTKYVKSIIIRVVFHRRLLQYTEYQQLEGWRWSRPGDRILDIDIPLSVGI
 LDPRASPTQLNAVEFLWDPSKRASAFIQVHCISTEFTPRKHGGEKGVPRVQIDTFKQNESGDYSEHLHS
 ASCQIKVFKPKGADRKQKTDREKMEKRTAQEKEKYQPSYETTILTECSPWPDVPYQANNTSPSYNGSPN
 SFGLREGNSSPNHPVEPLPLGSDHLLPSASIQDAQWLHRNRSQFCWLFASFSGADLLKMSRDDLVQVC
 GPADGIRLFNAIKGRNVRPKMTIYVCQEQNLPLPQKQDSDGNSLCVYHAIFLEELTTELEKTEKIAS
 LYSIPPQHIHRVYRQGPAGIHVVSNEMVQNFQDESCFILSTLKAESNDGYHIILKGL

TRTRPLE**QKLISEEDLA**ANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_023755

ORF Size: 1437 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_023755.2](#), [NP_076244.2](#)

RefSeq Size: 9285 bp

RefSeq ORF: 1440 bp

Locus ID: 81879

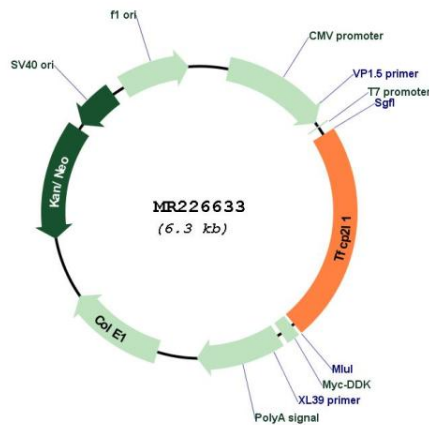
UniProt ID: [Q3UNW5](#)

Cytogenetics: 1 E2.3

MW: 54.7 kDa

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]

Product images:



Circular map for MR226633