

Product datasheet for **RC209241**

CRTR1 (TFCP2L1) (NM_014553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRTR1 (TFCP2L1) (NM_014553) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRTR1
Synonyms:	CRTR1; LBP-9; LBP9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209241 representing NM_014553
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCTTCTGGCACACGCAGCCGAGCACTACAACCAGCACAACCTCCGGCAGCTACCTGCGTGATGTGC
 TCGCTCTGCCCATCTTCAAGCAGGAGGAACCCAGCTGTCCCCGAGAACGAGGCCCGCCTGCCACCCCT
 GCAATATGTGTTGTGTGCTGCCAGTCCCCAGCCGTGAAGCTGCATGAAGAGACGCTGACCTACCTCAAC
 CAAGGTCACTTATGAAATCCGACTACTGGAGAATCGGAAGCTGGGAGACTTTCAAGATCTGAACACAA
 AATATGTCAAGAGCATCATCCGTGTGGTCTTCCATGACCGCCGGTGCAGTATACGGAGCACCAGCAGCT
 GGAGGGCTGGCGGTGGAGTCGGCCAGGGGACCCGATCCTGGACATCGATATTCCACTGTCTGTTGGTATC
 TTGGACCCAGGGCCAGCCGACCCAGCTGAATGCAGTCGAGTTTTTGTGGACCCTGCGAAGAGAGCTT
 CTGCATTCATTCAGTACTGCATCAGCACAGAATCACCCAGGAAGCACGGGGCGAGAAGGGAGT
 GCCCTTCGAGTCCAGATTGACACGTTTAAAGCAGAACGAGAATGGGGAGTACACGGAGCACCTGCACTCA
 GCCAGCTGCCAGATCAAGGTGTTCAAGCCGAAGGGAGCCGATCGAAACAGAAGACTGACCGGGAGAAGA
 TGGAGAAAAGAACTGCCAAGAGAAGGAGAAATACCAGCCGCTCTATGAAACCACCATCCTCACAGAGTG
 CTCTCCATGGCCCGACGTGGCCTACCAGGTGAACAGCGCCCGTCCCAAGCTACAATGGTTCTCCAAAAC
 AGCTTTGGCCTCGGCGAAGGCAACGCCTCTCCGACCCACCCGGTGGAGGCCCTGCCCGTGGGCAGTGACC
 ACCTGCTCCCATCAGTTCGATCCAGGATGCCAGCAGTGGCTTACCAGCAACAGGTTCTCGCAGTCTGT
 CCGGCTCTTGGCAGTCTCAGGTGCTGACTTGCTGAAGATGTCCCGAGATGATTTGGTCCAGATCTGT
 GGTCCCGCAGATGGGATCCGGCTCTTCAACGCCATCAAAGGCCGGAATGTGAGGCCAAAGATGACCATTT
 ATGTCTGTGAGGCTGGAGCAGAATCGAGTCCCTGCAGCAGAAGCGGACGGCAGTGGAGAGAGCAA
 CCTGTCTGTGTACCACGCCATCTTCTGGAAGAGCTGACCACCTTGGAGCTGATTGAGAAGATCGCCAAC
 CTGTACAGCATCTCCCCCAGCACATCCACCGAGTCTACCGCAGGGCCCCACGGGCATCCATGTGGTGG
 TGAGCAACGAGATGGTGCAGAACTTCCAAGATGAATCCTGTTTTGCTCCTCAGCACAATTAAGCTGAGAG
 CAATGATGGTACCACATCATCTGAAATGTGGACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209241 representing NM_014553
 Red=Cloning site Green=Tags(s)

MLFWHTQPEHYNQHNSGYSYLRDVLALPIFKQEEPQLSPENEARLPPLQYVLCATSPAVKLHEETLYLN
 QGQSYEIRLLENRKLGDQDLNFKYVKSIRVVFHRRRLQYTEHQQLLEGWRWSRPGDRILDIDIPLSVGI
 LDPRASPTQLNAVEFLWDPKRASAFIQVHCISTEFTPRKHGGEKGVFPRVQIDTFKQNGEYTEHLHS
 ASCQIKVFKPGADRKQKTDREKMEKRTAQEKEKYQPSYETTILTECSPWPDVAYQVNSAPSPSYNGSPN
 SFGLGEGNASPTHVPEALPVGSDHLLPSASIQDAQWLHRNRF SQFCRLFASFSGADLLKMSRDDLVQIC
 GPADGIRLFNAIKGRNVRPKMTIYVCQELEQNRVPLQQKRDGSGDSNLSVYHAIFLEELTTLELIEKIAN
 LYSISPQHIHRVYRQGPTGIHVVSNEMVQNFQDESCFVLSTIKAESNDGYHIILKGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2917_c05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_014553

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_014553.3](#)

RefSeq Size: 4909 bp

RefSeq ORF: 1440 bp

Locus ID: 29842

UniProt ID: [Q9NZI6](#)

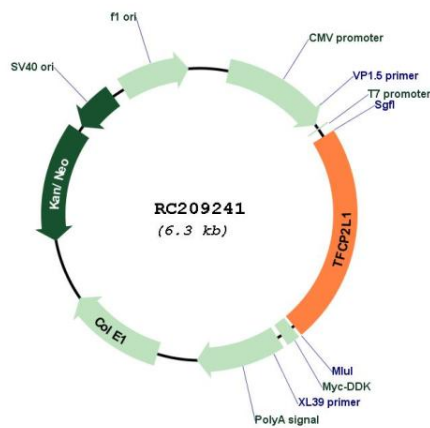
Cytogenetics: 2q14.2

Protein Families: Transcription Factors

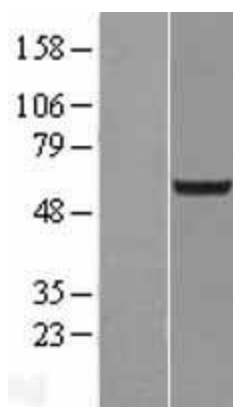
MW: 54.4 kDa

Gene Summary: Transcription factor that facilitates establishment and maintenance of pluripotency in embryonic stem cells (ESCs) (PubMed:25215486, PubMed:26906118). With KLF2, acts as the major effector of self-renewal that mediates induction of pluripotency downstream of LIF/STAT3 and Wnt/beta-catenin signaling (By similarity). Required for normal duct development in the salivary gland and kidney (By similarity). Coordinates the development of the kidney collecting ducts intercalated (IC) and principal (PC) cells, which regulate acid-base and salt-water homeostasis, respectively (By similarity). 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 (By similarity). Regulates also the expression of JAG1 and subsequent notch signaling in the collecting duct (By similarity). JAG1 initiates notch signaling in PCs but inhibits notch signaling in ICs (By similarity). Acts as a transcriptional suppressor that may suppress UBP1-mediated transcriptional activation (By similarity). Modulates the placental expression of CYP11A1 (PubMed:10644752).[UniProtKB/Swiss-Prot Function]

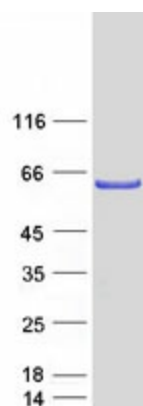
Product images:



Circular map for RC209241



Western blot validation of overexpression lysate (Cat# [LY415199]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209241 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TFCP2L1 protein (Cat# [TP309241]). The protein was produced from HEK293T cells transfected with TFCP2L1 cDNA clone (Cat# RC209241) using MegaTran 2.0 (Cat# [TT210002]).