

Product datasheet for **TP309241**

CRT1 (TFCP2L1) (NM_014553) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human transcription factor CP2-like 1 (TFCP2L1), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC209241 representing NM_014553 Red =Cloning site Green =Tags(s) |

MLFWHTQPEHYNQHNHSGSYLRDVLALPIFKQEEPQLSPENEARLPPLQYVLCATSPAVKLHEETLTLYLN
QGQSYEIRLLENRKLGDFQDLNNTKYVKSIIIRVVFHRRRLQYTEHQQLGWRWSRPGDRILDIDIPLSVGI
LDPRASPTQLNAVEFLWDPKASAFIQVHCISTEFTPRKHGGEGKGVPRVQIDTFKQNGEYTEHLHS
ASCQIKVFKPKGADRQKTDREKMEKRTAQEKEKYQPSYETTILTECSPWPDVAYQVNSAPSPSYNGSPN
SFGLGEGNASPTHPEALPVGSDHLLPSASIQDAQWLHRNRFSCFRLFASFSGADLLKMSRDDLVQIC
GPADGIRLFNAIKGRNVRPKMTIYVCQEQNRVPLQQKRDGSGDSNLSVYHAIFLEELTTLELIEKIAN
LYSISPQHIHRVYRQGPTGIHVVVSNEMVQNFQDESCFVLSTIKAESNDGYHIILKCGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 54.4 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP_055368</u> |



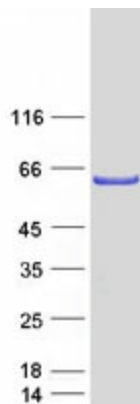
[View online »](#)

Locus ID: 29842
UniProt ID: [Q9NZI6](#)
RefSeq Size: 4909
Cytogenetics: 2q14.2
RefSeq ORF: 1437
Synonyms: CRTR1; LBP-9; LBP9

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 UB1-mediated transcriptional activation (By similarity). Modulates the placental expression of CYP11A1 (PubMed:10644752).[UniProtKB/Swiss-Prot Function]

Protein Families: Transcription Factors

Product images:



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]).