

## Product datasheet for TP309241L

### CRTR1 (TFCP2L1) (NM\_014553) Human Recombinant Protein

#### Product data:

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

MLFWHTQPEHYNQHNHSGSYLRDVLALPIFKQEEPQLSPENEARLPPLQYVLCATSPAVKLHEETLTLYLN  
QGQSYEIRLLENRKLGDQDLNFKYVKSIIIRVVFHRRRLQYTEHQQLLEGWRWSRPGDRILDIDIPLSVGI  
LDPRASPTQLNAVEFLWDPKASAFIQVHCISTEFTPRKHGGGKGVPRVQIDTFKQNGEYTEHLHS  
ASCQIKVFKPKGADRKQKTDREKMEKRTAQEKEKYQPSYETTILTECSPWPDVAYQVNSAPSPSYNGSPN  
SFGLGEGNASPTHVPEALPVGSDHLLPSASIQDAQQWLHRNRFSSQFCRLFASFSGADLLKMSRDDLVQIC  
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:	<a href="#">NP_055368</a>



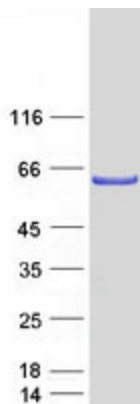
[View online »](#)

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 UBP1-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]).