

Product datasheet for PH309241

CRTR1 (TFCP2L1) (NM_014553) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TFCP2L1 MS Standard C13 and N15-labeled recombinant protein (NP_055368)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209241
Predicted MW:	54.4 kDa
Protein Sequence:	>RC209241 representing NM_014553 Red=Cloning site Green=Tags(s)

MLFWHTQPEHYNQHNHSGSYLRDVLALPIFKQEELQLSPENEARLPPLQYVLC AATSPAVKLHEETLTYLN
QGQSYEIRLLENRKL GDFQDLN TKYVKSIIIRVVFHRRRLQYTEHQQL EGWRWSRPGDRILDIDIPLSVGI
LDPRASPTQLNAVEFLWDP AKRASAFIQVHCISTEFTPRKHGGEKGV PFRVQIDTFKQNGEYTEHLHS
ASCQIKVFKPKGADRKQKTDREKMEKRTAQEKEKYQPSYETTILTECSPWPDVAYQVNSAPSPSYNGSPN
SFGLGEGNASPTHVPEALPVGSDHLLPSASIQDAQWLHRNRF SQFCRLFASFSGADLLKMSRDDLVQIC
GPADGIRLFNAIKGRNVRPKMTIYVCQELEQNRVPLQQKRDGSGDSNLSVYHAI FLEELTTLELIEKIAN
LYSISPQHIHRVYRQGPTGIHVVS NEMVQNFQDESCFVLSTIKAESNDGYHIILKCGL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_055368</u>
RefSeq Size:	4909
RefSeq ORF:	1437
Synonyms:	CRTR1; LBP-9; LBP9



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Locus ID: 29842

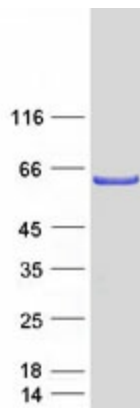
UniProt ID: [Q9NZI6](#)

Cytogenetics: 2q14.2

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]).