

Product datasheet for RC223937

CTDSPL (NM_001008392) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTDSPL (NM_001008392) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTDSPL
Synonyms:	C3orf8; HYA22; PSR1; RBSP3; SCP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223937 representing NM_001008392 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGGCCCGCCATCATCACCCAGGTGACCAACCCCAAGGAGGACGAGGGCCGGTTGCCGGGCGCGG
GCGAGAAAGCCTCCAGTGCAACGTCAGCTTAAGAAGCAGAGGAGCCGAGCATCCTTAGCTCCTTCTT
CTGCTGCTCCGTGATTACAATGTGGAGGCCCTCCACCCAGCAGCCCCAGTGTGCTCCGCCACTGGTG
GAGGAGAAATGGTGGGCTCAGAAGGTTGACAGAGGCAGGTCATCCCATAACCAAGTCCACCAGCTAAGT
ACCTTCTCCAGAGGTGACGGTCTTGACTATGAAAAGAAATGTGTGGTCATTGATTTAGATGAAACATT
GGTGACAGTTTCGTTAAGCCTATTAGTAATGCTGATTTATTGTCCGGTTGAAATCGATGGAACATA
CATCAGGTGTATGTGCTGAAGCGCCACATGTGGACGAGTTCTCCAGAGGATGGGGCAGCTTTTGAAT
GTGTGCTCTTACTGCCAGCTTGCCCAAGTATGCAGACCCTGTGGCTGACCTCCTAGACCCTGGGGTGT
GTTCCGGGCGCGCTCTCAGAGAATCATGTGTTTTTCATCGTGGGAACTACGTGAAGGACCTGAGTCGC
CTTGGGCGGGAGCTGAGCAAAGTATCATTGTTGACAATCCCCTGCCTCATACATCTCCATCCTGAGA
ATGCAGTGCTGTGCAGTCTGGTTCGATGACATGACGGACACGGAGCTGCTGGACCTCATCCCCTCTT
TGAGGGCTGAGCCGGGAGGACGACGTGTACAGCATGCTGCACAGACTCTGCAATAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223937 representing NM_001008392
Red=Cloning site Green=Tags(s)

MDGPAIITQVTNPKEDGRLPGAGEKASQCNVSLKKQRSRSILSSFFCCFRDYNVEAPPPSSPSVLPLPV
 EENGLQKGDQRQVIPIPSPPAKYLLPEVTVLVDYGKKCVVIDLDELTVHSSFKPISNADFIVPVEIDGTI
 HQVYVLRPHVDFLQRMGQLFECVLFATSLAKYADPVADLLDRWGVFRARLFRESCVFHRGNYVKDLRSR
 LGRELSKVIIVDNSPASYIFHPENAVPVQSWFDDMTDELLDLIPFFEGLSREDDVYSMLHRLCNR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6495_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001008392

ORF Size: 828 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.

RefSeq: [NM_001008392.2](#)

RefSeq Size: 4455 bp

RefSeq ORF: 831 bp

Locus ID: 10217

UniProt ID: [O15194](#)

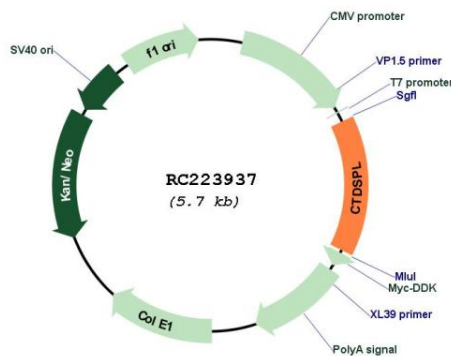
Cytogenetics: 3p22.2

Protein Families: Druggable Genome, Phosphatase

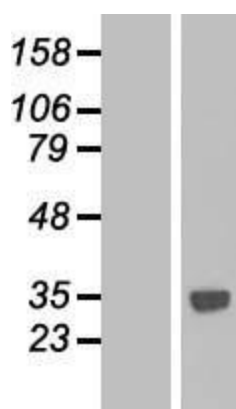
MW: 30.9 kDa

Gene Summary: Recruited by REST to neuronal genes that contain RE-1 elements, leading to neuronal gene silencing in non-neuronal cells (By similarity). Preferentially catalyzes the dephosphorylation of 'Ser-5' within the tandem 7 residue repeats in the C-terminal domain (CTD) of the largest RNA polymerase II subunit POLR2A. Negatively regulates RNA polymerase II transcription, possibly by controlling the transition from initiation/capping to processive transcript elongation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC223937



Western blot validation of overexpression lysate (Cat# [LY423419]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223937 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).