

## Product datasheet for MR203704

### Ctdspl (NM\_133710) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctdspl (NM_133710) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctdspl
Synonyms:	2810418J22Rik; AI426263; HYA22; SCP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203704 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGGTCCGGCCATCATCACCCAGGTGACCAACCCCAAGGAGGATGAGGCCCGTCCGCCGTCGCGG  
GCGAAAAAGCTTCCAGCGCAACATCAGCCTAAAGAAGCAAAGGGGTCGGAGCATCCTTAGCTCTTTCTT  
CTGCTGCTCCGAGACTACAATGTGGAAGCCCTCCGGCCAACAGCCCCAGTGTGCTCCGCCACTGGTG  
GAGGAGAACGGTGGGCTCAGAAGGGTGACCAGAGGCAGGTCATCCCGTACCAAGCCCACCAGCTAAAT  
ACCTCCTCCAGAGGTGACGGTGTGACTATGAAAAGAAATGTGTGGTCATTGATCTAGACGAAACCT  
GGTGACAGTTCGTTAAGCCCATTAGTAATGCTGACTTCATTGTTCTGTTGAAATCGACGGAACCATA  
CACCAGGTGTATGTGCTGAAGCGACCTCAGTGGACGAGTTCCTCCAGAGGATGGGGCAGCTCTTTGAGT  
GTGTGCTCTTACTGCCAGCTTGGCCAAGTATGCAGACCCTGTTGCCGACCTCCTGGACCCTGGGGTGT  
GTTCCGGGCCGACTCTCAGAGAATCCTGCGTGTCCACCGTGGGAACTATGTGAAGGACTTGAGTCGC  
CTGGGACGGGAGCTGAGCAAAGTATCATCGTGGACAATTCTCCTGCCTCCTACATCTCCATCCTGAGA  
ATGCAGTGCCCGTGCAGTCTGGTTTGACGACATGACAGACAGGAGCTGTTGGACCTCATCCCGTTCTT  
CGAGGGCTGAGCAGGGAAGACGATGTCTACAGCATGCTGCACAGACTCTGTAGCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR203704 protein sequence  
 Red=Cloning site Green=Tags(s)

MDGPAIITQVTNPKEDARSVPAGEKASQRNISLKKQRGRSILSSFFCCFRDYNVEAPPANSPSVLPPLV  
 EENGLQKGDQRQVIPVSPPAKYLLPEVTVLGYGKCCVVIDLDELTVHSSFKPISNADFIVPVEIDGTI  
 HQVYVLKRPHVDFLQRMGQLFECVLFATSLAKYADPVADLLDRWGVFRARLFRESCVFHRGNVYKDLRSR  
 LGRELSKVIIVDNSPASYIFHPENAVPVQSWFDDMTDELLDLIPFFEGLSREDDVYSMLHRLCSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_133710

**ORF Size:** 831 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\\_133710.3](#), [NP\\_598471.3](#)

**RefSeq Size:** 4627 bp

**RefSeq ORF:** 831 bp

**Locus ID:** 69274

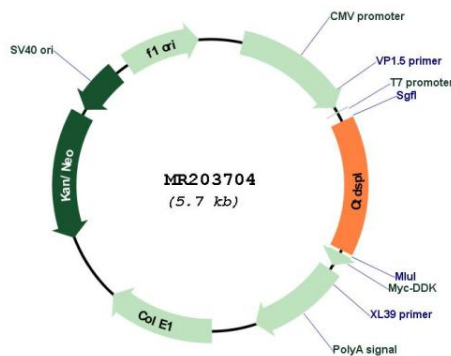
**UniProt ID:** [P58465](#)

**Cytogenetics:** 9 F3

**MW:** 31.2 kDa

**Gene Summary:** 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. Recruited by REST to neuronal genes that contain RE-1 elements, leading to neuronal gene silencing in non-neuronal cells (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR203704