

Product datasheet for **MC207494**

Ctdsp2 (NM_146012) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ctdsp2 (NM_146012) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ctdsp2
Synonyms: A1586070; D10Ertd73e; OS-4; OS4; SCP2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207494 representing NM_146012
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGGGAGCTCTTCGAATGTGTTCTTCTCACTGCCAGCTTGGCCAAGTATGCTGACCCTGTGACTGATC
TCCTGGACCGGTGCGGGTGTTCGGGGCCGCCTGTTCCGAGAGGCTTGTGTGTTCCACCGGGCTGCTA
TGTC AAGGACCTCAGCCGCTGGGAAGGGACCTGAGGAAAAGTGCATCCTGGACAACCTCCCTGCATCT
TACATCTTCCACCCAGAAAATGCAGTGCCTGTGCAGTCCCTGGTTTGTATGACATGGCAGATACAGAGTTGC
TGAACCTGATTCCAGTCTTCGAGGAGCTAAGTGGAACTGATGATGTCTACACCAGCTTGGGCAGCTGCG
GGCCCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTGCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_146012
Insert Size: 360 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_146012.2](#), [NP_666124.1](#)

RefSeq Size: 4136 bp

RefSeq ORF: 360 bp

Locus ID: 52468

UniProt ID: [Q8BX07](#)

Cytogenetics: 10 74.35 cM

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]

Transcript Variant: This variant (b) differs in the 5' UTR, lacks multiple 5' coding exons, and initiates translation at a downstream in-frame start codon, compared to variant a. The encoded isoform (b) has a shorter N-terminus, compared to isoform a.