

## Product datasheet for **RG209026**

### CTDSP2 (NM\_005730) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTDSP2 (NM_005730) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTDSP2
Synonyms:	OS4; PSR2; SCP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209026 representing NM_005730 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACACGGCTCCATCATCACCCAGGCGGGAGGGAAGACGCCCTGGTGCTCACCAAGCAAGGCCTGG  
TCTCCAAGTCCTCCTAAGAAGCCTCGTGGACGTAACATCTTCAAGGCCCTTTCTGCTGTTTTCGCGC  
CCAGCATGTTGGCCAGTCAAGTTCCTCCACTGAGCTCGCTGCGTATAAGGAGGAAGCAAACACCATTGCT  
AAGTCGGATCTGCTCCAGTGTCTCCAGTACCAGTCTACCAGATCCAGGGACCTGCCTGCTCCCAGAGG  
TGACAGAGGAAGATCAAGGAAGGATCTGTGTGGTCATTGACCTCGATGAAACCCTTGTGCATAGCTCCTT  
TAAGCCAATCAACAATGCTGACTTCATAGTGCCTATAGAGATTGAGGGGACCACTACCAGGTGTATGTG  
CTCAAGAGGCCTTATGTGGATGAGTTCCTGAGACGCATGGGGAACTCTTTGAATGTGTTCTCTTCACTG  
CCAGCCTGGCCAAGTATGCCGACCCTGTGACAGACCTGCTGGACCGGTGTGGGGTGTCCGGGCCCGCCT  
ATTCCTGAGTCTTGCCTGTTCCACCAGGGCTGCTACGTCAAGGACCTCAGCCGCTGGGGAGGGACCTG  
AGAAAGACCCTCATCCTGGACAACCTCGCCTGCTTCTTACATATCCACCCGAGAATGCAGTGCCTGTGC  
AGTCTGGTTTGATGACATGGCAGACACTGAGTTGCTGAACCTGATCCCAATCTTTGAGGAGCTGAGCGG  
AGCAGAGGACGTCTACACCAGCCTTGGGACGCTGCGGGCCCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209026 representing NM\_005730  
Red=Cloning site Green=Tags(s)

MEHGSIIQARREDALVLTKQGLVSKSSPKKPRGRNIFKALFCCFRAQHVQGSSSSTELAAYKEEANTIA  
 KSDLLQCLQYQFYQIPGTCLLPEVTEEDQGRICVVIDLDELTVHSSFKPINNADFIVPIEIEGTTTHQVYV  
 LKRPHYVDEFLLRMGELFECVLFATSLAKYADPVTDLLDRCGVFRARLFRSCVFHQGCYVKDL SRLGRDL  
 RKTLILDNSPASYIFHPENAVPVQSWFDDMADTELLNL IPIFEELSGAEDVYVYSLGQLRAP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005730

**ORF Size:** 813 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\\_005730.4](#)

**RefSeq Size:** 5038 bp

**RefSeq ORF:** 816 bp

**Locus ID:** 10106

**UniProt ID:** [O14595](#)

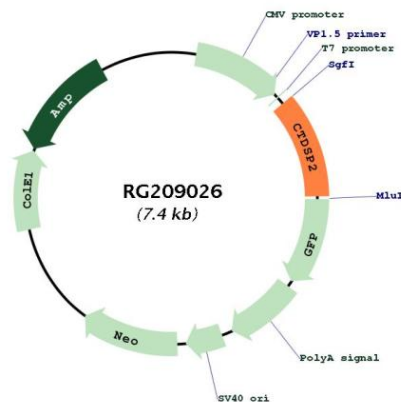
**Cytogenetics:** 12q14.1

**Domains:** CPDc

**Protein Families:** Druggable Genome, Phosphatase

**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. May contribute to the development of sarcomas.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG209026