

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
TGACAGAGGAAGATCAAGGAAGGATCTGTGTGGTCATTGACCTCGATGAAACCCTTGTCATAGCTCCTT
TAAGCCAATCAACAATGCTGACTTCATAGTGCCTATAGAGATTGAGGGGACCACTACCAGTGTATGTG
CTCAAGAGGCCTTATGTGGATGAGTTCCTGAGACGCATGGGGAACTCTTTGAATGTGTTCTCTTCACTG
CCAGCCTGGCCAAGTATGCCGACCCTGTGACAGACCTGCTGGACCGGTGTGGGGTGTCCGGGCCCGCCT
ATTCCTGAGTCTTGCCTGTTCCACCAGGGCTGCTACGTCAAGGACCTCAGCCGCTGGGGAGGGACCTG
AGAAAGACCCTCATCCTGGACAACCTCGCCTGCTTCTTACATATCCACCCGAGAATGCAGTGCCTGTGC
AGTCTGGTTTGATGACATGGCAGACACTGAGTTGCTGAACCTGATCCCAATCTTTGAGGAGCTGAGCGG
AGCAGAGGACGTCTACACCAGCCTTGGGAGCTGCGGGCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209026 representing NM_005730
 Red=Cloning site Green=Tags(s)

MEHGSIIQARREDALVLTKQGLVSKSSPKKPRGRNIFKALFCCFRAQHVQGSSSSTELAAYKEEANTIA
 KSDLLQCLQYQFYQIPGTCLLPEVTEEDQGRICVVIDLDELTVHSSFKPINNADFIVPIEIEGTHQVYV
 LKRPHYVDEFLLRMGELFECVLFATSLAKYADPVTDLDRCGVFRARLFRSCVFHQGCYVKDL SRLGRDL
 RKTLILDNSPASYIFHPENAVPVQSWFDDMADTELLNL IPIFEELSGAEDVYVTSLGQLRAP

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005730.4](#)

RefSeq Size: 5038 bp

RefSeq ORF: 816 bp

Locus ID: 10106

UniProt ID: [O14595](#)

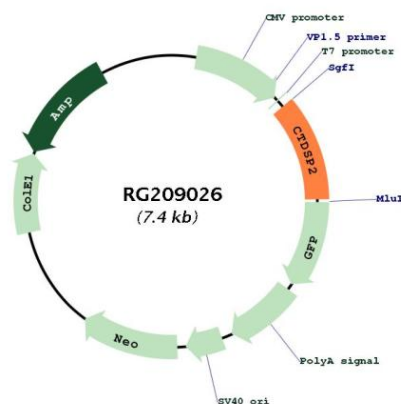
Cytogenetics: 12q14.1

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