

Product datasheet for **MG223568**

Ctdsp2 (NM_001113470) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctdsp2 (NM_001113470) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ctdsp2
Synonyms:	A1586070; D10ErtD73e; OS-4; OS4; SCP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223568 representing NM_001113470 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACACGGCTCCATCATCACCCAGGCGGGAGGGAAGACGCCCTGGTGCTCACCAAGCAAGGCCTAG
TCTCCAAGTCCTCGCCTAAGAAACCCCGTGCCCGCAGCATCTTCAAGGCCCTCTGTGCTGTTCCACAC
ACAGCATGTTGTCCAGTCCAGCTCTTCCACTGAGCTCACACACAAGGAGGAGGCCAACACCATCGCCAAG
TCCGATCTCCTCCAGTGTCTCCAGTACCAGTTTTATCAGATCCCTGGGACCTGCCTGCTCCCGAGGTGA
CAGAGCAAGATCAAGGCAGGATCTGCGTGGTCATTGACCTGGATGAGACCCTTGTGCACAGTTCTTTAA
GCCGATCAACAATGCTGACTTCATAGTGCTGTAGAGATTGAGGGGACCACGCACCAGGTATATGTGCTC
AAGAGGCCTTACGTGATGAGTTCTGAGACGGATGGGGGAGCTCTTCAATGTGTTCTTCACTGCCA
GCTTGGCCAAGTATGCTGACCCTGTGACTGATCTCCTGGACCGGTGCGGGGTGTTCCGGGCCCGCCTGTT
CCGAGAGGCTTGTGTGTTCCACCAGGGCTGCTATGTCAAGGACCTCAGCCGCTGGGAAGGGACCTGAGG
AAAAGTGTATCCTGGACAACCTCCCTGCATCTTACATCTTCCACCCAGAAAATGCAGTGCCTGTGCAGT
CCTGGTTTGTATGACATGGCAGATACAGAGTTGCTGAACCTGATCCAGTCTTCGAGGAGCTAAGTGGAA
TGATGATGTCTACACCAGCCTTGGCAGCTGCGGGCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223568 representing NM_001113470
 Red=Cloning site Green=Tags(s)

MEHGSIIQARREDALVLTQQLVSKSSPKKPRGRSIFKALLCCFHTQHVVQSSSSTELTHKEANTI
 SDLLQCLQYQFYQIPGTCLLPEVTEQDQGRICVVIDLDELTVHSSFKPINNADFIVPVEIEGTT
 HQYVVLKRPYVDEFLLRRMGELFECVLFASLAKYADPVTDLLDRCGVFRARLFREACV
 FHQGCYVKDL SRLGRDLRKTVIDNSPASYIFHPENAVPVQSWFDDMADTELLNLI
 PVFEELSGTDDVYVTSLGQLRAP

TRTRPLE - GFP Tag - V

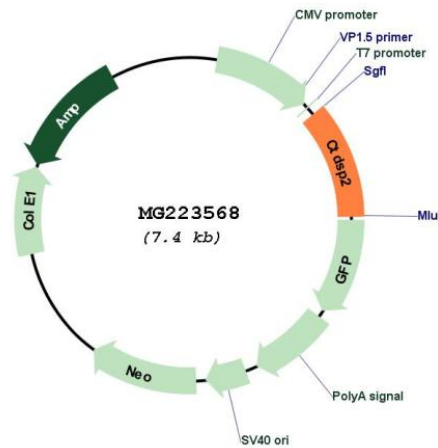
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001113470

ORF Size: 810 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:	<ol style="list-style-type: none">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_001113470.1 , NP_001106941.1
RefSeq Size:	4823 bp
RefSeq ORF:	813 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]