

Product datasheet for MR203403

Ctdsp1 (NM_153088) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctdsp1 (NM_153088) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctdsp1
Synonyms:	GIP; Nif3; NLIIF; SCP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203403 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCTCGGCCGTCATTAAGTACAGATCAGCAAGGAGGAGGCGGGGCCGCTGCGGGCAAAGGTG
ACCAGAAGTCAGCAGTTTCCCAGAAGCCCCGGAGTCGGGGCATCCTCCACTCCCTCTTCTGCTGTGTCTG
CCGGGATGATGGGGAGCCCCTACCTGCCACAGTGGGGCTCCCCTGCTGGTGGAGGAAAATGGCGCCATC
CCTAAGCACACCCAGTCCAGTACCTGCTTCCCGAGGCAAGGCCAGGACTCAGACAAGATCTGCGTCC
TCATCGACCTGGACGAGACCCCTGGTGCACAGCTCCTTCAAGCCAGTGAACAATGCGGACTTCATCATCCC
GGTGGAGATAGATGGAGTGGTCCACCAGGTCTATGTGCTGAAGCGCCCCACGTAGATGAGTTCCTACAG
CGAATGGGCGAGCTCTTTGAATGTGTGCTTCACTGCCAGCCTTGCCAAGTACGCAGACCTGTAGCTG
ATCTGCTGGACAAGTGGGGAGCCTTCCGTGCCAGGCTGTTTCGAGAGTCGTGTCTTCCACCGGGGAA
CTACGTAAGGACCTGAGCAGGCTGGGCCGAGACCTGCGGCGAGTGTCTATTCTAGACAACCTACCCGCC
TCCTATGTCTTCCATCCAGACAATGCCGTACCAGTGGCCTCGTGGTTTGACAACATGAGTGACACTGAGC
TACACGATCTTACCCTTCTTTGAGCAACTCAGCCGCTGGACGACGTATACTCAGTGTCTCAGACAGCC
TAGGCCCGGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203403 protein sequence
 Red=Cloning site Green=Tags(s)

MDSSAVITQISKEEARGPLRGKGDQKSAVSQKPRSRGILHSLFCCVCRDDGEPLPAHSGAPLLVEENGAI
 PKHTPVQYLLPEAKAQSDKICVVIDLDELTVHSSFKPVNADF IIPVEIDGVVHQVYVVKRPHVDFLQ
 RMGELFECVLFTASLAKYADPVADLLDKWGAFRARLFRESCVFHRGNVYKDL SRLGRDLRRVLILDNSPA
 SYVFHPDNAVPVASWFDNMSDTELDLLPFFEQLSRVDDVYSVLRQPRPGS

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_153088

ORF Size: 786 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_153088.2](#), [NP_694728.1](#)

RefSeq Size: 2790 bp

RefSeq ORF: 786 bp

Locus ID: 227292

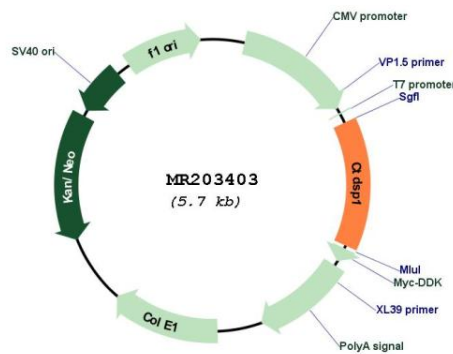
UniProt ID: [P58466](#)

Cytogenetics: 1 C3

MW: 29.3 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 (By similarity). Recruited by REST to neuronal genes that contain RE-1 elements, leading to neuronal gene silencing in non-neuronal cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203403