

Product datasheet for **RG212037**

CTDSP1 (NM_021198) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTDSP1 (NM_021198) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTDSP1
Synonyms:	NIF3; NLI-IF; NLIIF; SCP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212037 representing NM_021198 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCTCGGCCGTCATTACTCAGATCAGCAAGGAGGAGGCTCGGGGCCGCTGCGGGCAAAGGTG
ACCAGAAGTCAGCAGCTTCCCAGAAGCCCCGAAGCCGGGGCATCCTCACTCACTTTCTGCTGTGTCTG
CCGGGATGATGGGAGGCCCTGCCTGCTCACAGCGGGCGCCCTGCTTGTGGAGGAGAATGGAGCCATC
CCTAAGCAGACCCAGTCCAATACCTGCTCCCTGAGGCCAAGGCCAGGACTCAGACAAGATCTGCGTGG
TCATCGACCTGGACGAGACCCTGGTGCACAGCTCCTTCAAGCCAGTGAACAACGGGACTTCATCATCCC
TGTGGAGATTGATGGGGTGGTCCACCAGGTCTACGTGTTGAAGCGTCTCACGTGGATGAGTTCCTGCAG
CGAATGGGCGAGCTCTTTGAATGTGTGCTGTTCACTGCTAGCCTCGCAAGTACGCAGACCCAGTAGCTG
ACCTGCTGGACAAATGGGGGCCCTCCGGGCCCGGCTGTTTCGAGAGTCTGCGTCTCCACCGGGGAA
CTACGTGAAGGACCTGAGCCGGTTGGTGCAGACCTGCGCGGGTGTCTATCCTGGACAATTCACCTGCC
TCCTATGTCTCCATCCAGACAATGCTGTACCGGTGGCTCGTGGTTTGACAACATGAGTGACACAGAGC
TCCACGACCTCTCCCTTCTTCGAGCAACTCAGCCGTGTGGACGACGTACTCAGTGTCTCAGGCAGCC
ACGGCCAGGGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212037 representing NM_021198
 Red=Cloning site Green=Tags(s)

MDSSAVITQISKEEARGPLRGKGDQKSAASQKPRSRGILHSLFCCVCRDDGEALPAHSGAPLLVEENGAI
 PKQTPVQYLLPEAKAQSDKICVVIDLDELTVHSSFKPVNNADF IIPVEIDGVVHQVYVLRPHVDFLQ
 RMGELFECVLF T ASLAKYADPVADLLDKWGAFRARLFRESCVFHRGNVYKDL SRLGRDLRRVLILDNSPA
 SYVFHPDNAVPVASWFDNMSDTELDLLPFFEQLSRVDDVYSVLRQPRPGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021198

ORF Size: 783 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_021198.1](#), [NP_067021.1](#)

RefSeq Size: 2655 bp

RefSeq ORF: 786 bp

Locus ID: 58190

UniProt ID: [Q9GZU7](#)

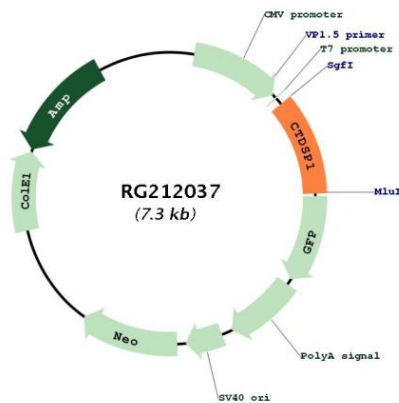
Cytogenetics: 2q35

Domains: CPDc

Protein Families: Phosphatase

Gene Summary: This gene encodes a member of the small C-terminal domain phosphatase (SCP) family of nuclear phosphatases. These proteins play a role in transcriptional regulation through specific dephosphorylation of phosphoserine 5 within tandem heptapeptide repeats of the C-terminal domain of RNA polymerase II. The encoded protein plays a role in neuronal gene silencing in non-neuronal cells, and may also inhibit osteoblast differentiation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG212037