

Product datasheet for **RG223937**

CTDSPL (NM_001008392) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTDSPL (NM_001008392) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTDSPL
Synonyms:	C3orf8; HYA22; PSR1; RBSP3; SCP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223937 representing NM_001008392 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGGCCCGCCATCATCACCCAGGTGACCAACCCCAAGGAGGACGAGGGCCGGTTGCCGGGCGCGG
GCGAGAAAGCCTCCAGTGCAACGTCAGCTTAAGAAGCAGAGGAGCCGAGCATCCTTAGCTCCTTCTT
CTGCTGCTCCGTGATTACAATGTGGAGGCCCTCCACCCAGCAGCCCCAGTGTGCTTCCGCCACTGGT
GAGGAGAATGGTGGGCTCAGAAGGTGACCAGAGGCAGGTCAATCCCATACCAAGTCCACCAGCTAAGT
ACCTTCTCCAGAGGTGACGGTCTTGACTATGAAAAGAAATGTGTGGTCATTGATTTAGATGAAACATT
GGTGACAGTTTCGTTAAGCCTATTAGTAATGCTGATTTTATTGTTCCGGTTGAAATCGATGGAACATA
CATCAGGTGTATGTGCTGAAGCGCCACATGTGGACGAGTTCTCCAGAGGATGGGGCAGCTTTTGAAT
GTGTGCTCTTACTGCCAGCTTGCCCAAGTATGCAGACCCTGTGGCTGACCTCCTAGACCCTGGGGTGT
GTTCCGGGCCCGGCTCTCAGAGAATCATGTGTTTTTCATCGTGGGAACTACGTGAAGGACCTGAGTCGC
CTTGGGCGGGAGCTGAGCAAAGTATCATTGTTGACAATCCCTGCCTCATACATCTTCCATCCTGAGA
ATGCAGTGCTGTGCAGTCTGGTTCGATGACATGACGGACACGGAGCTGCTGGACCTCATCCCCTCTT
TGAGGGCTGAGCCGGGAGGACGACGTGTACAGCATGCTGCACAGACTCTGCAATAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223937 representing NM_001008392
Red=Cloning site Green=Tags(s)

MDGPAIITQVTNPKEDGRLPGAGEKASQCNVSLKKQRSRSILSSFFCCFRDYNVEAPPPSSPSVLPLV
 EENGLQKGDQRQVIPIPSPPAKYLLPEVTVLVDYGKCCVVIDLDELTVHSSFKPISNADFIVPVEIDGTI
 HQVYVLKRPHVDEFLQRMGQLFECVLFATSLAKYADPVADLLDRWGVFRARLFRSCVFRHGNVVKDLSR
 LGRELSKVIIVDNSPASYIFHPENAVPVQSWFDDMTDELLDLIPFFEGLSREDDVYSMLHRLCNR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001008392

ORF Size: 828 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_001008392.2](#)

RefSeq Size: 4455 bp

RefSeq ORF: 831 bp

Locus ID: 10217

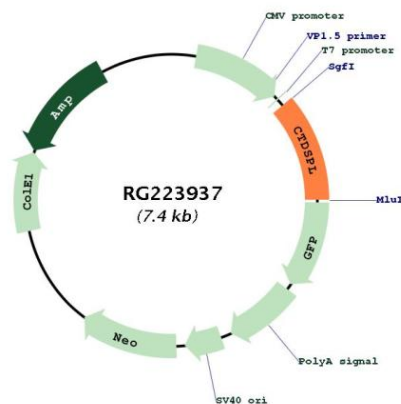
UniProt ID: [O15194](#)

Cytogenetics: 3p22.2

Protein Families: Druggable Genome, Phosphatase

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

Product images:



Circular map for RG223937