

## Product datasheet for **SC128019**

### CTDSPL (NM\_001008392) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTDSPL (NM_001008392) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTDSPL
Synonyms:	C3orf8; HYA22; PSR1; RBSP3; SCP3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001008392, the custom clone sequence may differ by one or more nucleotides

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ATGGACGGCCCGCCATCATCACCCAGGTGACCAACCCCAAGGAGGACGAGGGCCGGTTGCCGGGCGCGG
GCGAGAAAGCCTCCAGTGCAACGTGAGCTTAAAGAAGCAGAGGAGCCGAGCATCCTTAGCTCCTTCTT
CTGCTGCTTCCGTGATTACAATGTGGAGGCCCTCCACCCAGCAGCCCCAGTGTGCTTCCGCCACTGGTG
GAGGAGAATGGTGGGCTCAGAAGGGTGACCAGAGGCAGGTCATCCCATACCAAGTCCACCAGCTAAGT
ACCTTCTCCAGAGGTGACGGTCTTGACTATGGAAGAAATGTGTGGTCATTGATTTAGATGAAACATT
GGTGCACAGTTCGTTAAGCCTATTAGTAATGCTGATTTTATTGTTCCGGTTGAAATCGATGGAACATA
CATCAGGTGTATGTGCTGAAGCGGCCACATGTGGACGAGTTCCTCCAGAGGATGGGGCAGCTTTTTGAAT
GTGTGCTCTTTACTGCCAGCTTGCCCAAGTATGCAGACCCCTGTGGCTGACCTCCTAGACCCTGGGGTGT
GTTCCGGGCCCGCTCTTCAGAGAATCATGTGTTTTTCATCGTGGGAACTACGTGAAGGACCTGAGTCGC
CTTGGGCGGGAGCTGAGCAAAGTGATCATTGTTGACAATCCCCTGCCTCATACATCTTCCATCCTGAGA
ATGCAAGTCCGTGACAGTCCGTTGATGACATGACGGACACGGAGCTGCTGGACCTCATCCCCTTCTT
TGAGGGCTGAGCCGGGAGGACGACGTGTACAGCATGCTGCACAGACTCTGCAATAGGTAG
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001008392 unedited NNNNGGTGGAGTTCGGATTTTGTAAACGACTCACTATAGGGCGGCCGNAATTCGGCA CGAGCCGCGCCGCGCACCCATGGACGGCCCGGCCATCATCACCAGGTGACCAACCCAA GGAGGACGAGGGCCGTTGCCGGGCGGGGCGAGAAAGCCTCCCAGTGCAACGTCAGCTT AAAGAAGCAGAGGAGCCGAGCATCCTTAGCTCCTTCTTCTGCTGCTTCCGTGATTACAA TGTGGAGGCCCTCCACCAGCAGCCCCAGTGTGCTTCCGCCACTGGTGGAGGAGATGG TGGGCTTCAGAAGGGTGACCAGAGGCAGGTCATTCCCATACCAAGTCCACCAGCTAAGTA CCTTCTCCAGAGGTGACGGTGCTTACTATGGAAAGAAATGTGTGGTCATTGATTTAGA TGAACATTGGTGACAGTTCGTTTAAGCCTATTAGTAATGCTGATTTTATTGTTCCGGT TGAATCGATGGAATAACATCAGGTGTATGTGCTGAAGCGGCCACATGTGGACGAGTT CCTCCAGAGGATGGGGCAGCTTTTTGAATGTGTGCTTTTACTGCCAGCTTGGCCAAGTA TGCAGACCCTGTGGCTGACCTCCTAGACCGCTGGGGTGTGTTCCGGGCCCGGCTCTTCAG AGAATCATGTGTTTTTCATCGTGGAACTACGTGAAGGACCTGAGTCGCCTTGGCGGGA GCTGAGCAAAGTGATCATTGTTGACAATCCCCTGCCTCATACTTCCATCCTGAGAA TGCAGTGCCTGTGCAGTCTGGTTCGATGACATGACGGACACGGAGCTGCTGGACCTCAT CCCCTTCTTTGAAGGCCGTACCCGGGAGGACGACGTGTTACAGCATGCTGAACAGACTCTG CAATAGCT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001008392
<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001008392.1</a> , <a href="#">NP_001008393.1</a>
<b>RefSeq Size:</b>	4455 bp
<b>RefSeq ORF:</b>	831 bp
<b>Locus ID:</b>	10217
<b>UniProt ID:</b>	<a href="#">O15194</a>
<b>Cytogenetics:</b>	3p22.2
<b>Protein Families:</b>	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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).