

Product datasheet for **SC128037**

CTDSP2 (NM_005730) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTDSP2 (NM_005730) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTDSP2
Synonyms:	OS4; PSR2; SCP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128037 sequence for NM_005730 edited (data generated by NextGen Sequencing)

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ATGGAACACGGCTCCATCATCACCCAGGCGCGGAGGGAAGACGCCCTGGTGCTACCAAG
CAAGGCCTGGTCTCCAAGTCCTCCTAAGAAGCCTCGTGGACGTAACATCTTCAAGGCC
CTTTTCTGCTGTTTTCGCGCCCAGCATGTTGGCCAGTCAAGTTCCTCCACTGAGCTCGCT
GCGTATAAGGAGGAAGCAAACACCATTGCTAAGTCGGATCTGCTCCAGTGTCTCCAGTAC
CAGTTCTACCAGATCCCAGGGACCTGCCTGCTCCCAGAGGTGACAGAGGAAGATCAAGGA
AGGATCTGTGGTTCATTGACCTCGATGAAACCCTTGTGCATAGCTCCTTTAAGCCAATC
AACAAATGCTGACTTCATAGTGCCTATAGAGATTGAGGGGACCACTACCAGGTGTATGTG
CTCAAGAGGCCTTATGTGGATGAGTTCCTGAGACGCATGGGGAACTCTTTGAATGTGT
CTTTCACTGCCAGCCTGGCCAAGTATGCCGACCCTGTGACAGACCTGCTGGACCGGTGT
GGGGTGTCCGGGCCCGCTATTCCGTGAGTCTTGCCTGTCCACCAGGGCTGCTACGTC
AAGGACCTCAGCCGCTGGGGAGGGACCTGAGAAAGACCCTCATCCTGGCAACTCGCCT
GCTTCTTACATATTCCACCCGAGAATGCAAGTGCCTGTGCAGTCTGGTTTGATGACATG
GCAGACACTGAGTTGCTGAACCTGATCCCAATCTTTGAGGAGCTGAGCGGAGCAGAGGAC
GTCTACACCAGCCTTGGGCAGCTGCGGGCCCCTTAG

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Clone variation with respect to NM_005730.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005730 unedited</p> <pre> AGGCGGCCCGCGAATTCGCACGAGGGGAGCCCGGAGCTGCCGCTGGGGGATCGGGGCCGG GGGCACCCGGGGGAGCCGCTGCCCGGGCCGCCGCCCTTTGTACAGGCCGCTCCCTTCC CGGTCCGGGGAGGAAACGAGAGGGGGGATGTGAACAGCTGTGGAAGTCGGAGTCTCGGGA GCCGGAGCGGGCCCCCGCCAGGCCCCAGCCAGCCAGCCGCGCGCCCGCCGCTCC TCCCGCCAGCCAGCCCGGGCCCGCGGGATTGTTAGATGGAACACGGCTCCATCATCACC CAGGCGCGGAGGGAAGACGCCCTGGTGCTCACC AAGCAAGGCCTGGTCTCCAAGTCTCT CCTAAGAAGCCTCGTGGACGTAACATCTTCAAGGCCCTTTTCTGCTGTTTTCGCGCCAG CATGTTGGCCAGTCAAGTTCCTCCTACTGAGCTCGCTGCGTATAAGGAGGAAGCAAACACC ATTGCTAAGTCGGATCTGCTCCAGTGTCTCCAGTACCAGTTCTACCAGATCCCAGGGACC TGCCTGCTCCCAGAGGTGACAGAGGAAGATCAAGAAGGATCTGTGTGGTCAATTGACCTCG ATGAAACCCTTGTGCATAGCTCCTTTAAGCCAATCAACAATGCTGACTTCATAGTGCTA TAGAGATTGAGGGGACCACTACCAGGNTGTATGTGCTCAANGAGCCTTTATGTGGATGA GCTCCTGAGACGCATGGNGGAACCTTTTGNATGTGTTCTGCTCACTGGCAGCCTGGCCAA GTATGCCGACCCTGTGACAGACTGCTGAACCGTGTGGGGGGGTCCGGCCCGCCTATTC GTGAGTTTTTTGGGTGTTCAACCAAGGCTGGTCTGTTAAGGACCTCAACGCTTGGGGAGGA CCGAAAAGAACCTTCTTGACACTGGCTGCTTTG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005730 unedited</p> <pre> NNNNGGGGGTGGGAGGTTTTTTAAACCCACTTTNTATAATTAATTGTAAGTAATACAAA TATTCAAAAATATAAACAGACACTTAATGGCGTCTGCATTTCAAGTTTTTGAATACAA CAAATTTATCAAACCATGAATCTGTAAGCAAGGTAGTCAGAATCCCATAGCCAGTCACA GTGGGAAGCAGATCCCCTACCCTCCAAATGGCATCTTGAAGGGGAAAGCGGCACGAAAT GGAACATGATAAGCAAAAAGCTCACGAGGCCAAAGAGGAGGGTCCGCTCCATGGGCAG GCCTACAACGTTAAAAGAATGGGGCAGCTGGCCCGACCTCTGGCCTCCTTCCCTGGC TGAATGTAATATTTACCAGCATTTAGAAAAAAGGAGAAAAAAGACAGAATAAACCCGT TTAGGAAAAAGGGACCGAGGGACAGCAGTGGTTAAGTAATCCACTGAGGACCTGAAGGGG AAAATGGACTTACCTTTCTCATATACTTGGCCTGGCTAGGACACTGGGTGCCAGACAGCC TTCTGAGGGGATTTTCTTAAATGAGGCCTCAGGAACAGGTAGGGGCAGCAGAATAGA ATAGCATCCATTTCCAGAGAAAGACTGCCTTTACATTTCCATGCTTTTAGCACAAAGC AGCGTCTGGCCACTGTTACCAGAGGTGAGTTTATACATTTACAAAATGCTTAANATCTT TGGGAAGCAAGAGGAAGCTAAACAGAAGTCCCATGTTAACTGAAGGCAAATTCAC TCAA CCTCTCTAGTAAGGGACCCATGGGCCTACAGAGTGTTCCTCTACAATGTGCAGAGTGGA AACCTTACCTGAGCCTTTTCAAAAATGGTCTGTGG </pre>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_005730
Insert Size:	4700 bp
OTI Disclaimer:	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).
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_005730.2 , NP_005721.2
RefSeq Size:	4833 bp
RefSeq ORF:	852 bp
Locus ID:	10106
UniProt ID:	O14595
Cytogenetics:	12q14.1
Domains:	CPDc
Protein Families:	Druggable Genome, Phosphatase
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. May contribute to the development of sarcomas.[UniProtKB/Swiss-Prot Function]