

Product datasheet for **SC114782**

CLSTN1 (NM_014944) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLSTN1 (NM_014944) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLSTN1
Synonyms:	ALC-ALPHA; alcalpha1; alcalpha2; CDHR12; CST-1; CSTN1; PIK3CD; XB31alpha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114782 sequence for NM_014944 edited (data generated by NextGen Sequencing)

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ATGCTGCGCCCGCCCGCTCCCGCTGCGCCCGCCCGCCCGCTGCTGCTGGCCGGGCTG
CTGTGCGCGCGCGGGTCTGGGCCGCGGAGTTAACAAGCACAAAGCCCTGGCTGGAGCCC
ACCTACCACGGCATAGTCACAGAGAACGACAACACCGTGCTCCTCGACCCCACTGATC
GCGCTGGATAAAGATGCGCCTCTGCGATTTGCAGGTGAGATTTGTGGATTTAAAATTCAC
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Clone variation with respect to NM_014944.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_014944 unedited
AGCATTTTGTAAATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGCAAGACGCT
GCTCTGAGGCGGGGAGGGCGCCGCTCTGAGCGCGCGGCCAGCGTCACGGCGGCGGGCG
GCGGCGGCTCCTCCTTGGACCCCGGAGCTCCCGCGCGCGGAGCAGCTGGCCCCAGGC
CCCTAGAGCCCCGAGAGCTCCGAGAGCTCCGCTCGGCGTCCCGCGCGCCTCCCTGCCGCT
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TGGAGGCGGTGGATGCCGACTGGTTCCTCATTCAACCCGATTTGCAATTACGAAAATAT
CACTCCCGAAGTGCCCTTTACTGTTGACACAGAGGGGTTTTTAACAAACCCGAGAAATT
AACTCCCGCAAGAATCAATTAAGCTGACCGTCTGGCTTAGACTGTGGGAACACAAAC
C
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014944 unedited <pre> GTATTCTTGCCCGCGCCGCATTCTANGATCGAGNTTTTTTTTTTTTTTTTTTTTTT TTTTAGTTAGAACCAGAACTTTATTGTAGCGGATACCTTTCTGACCTATCATGAGTATAC ACATCTGCGAAGGGAACCGCGCGGCGACAGCGTGAGGACATCCCTGGGCGTGAGCGTC TGTCGGCTGTCTAAACAGAGCAGCTACAGGGACGGGACATGGAGGATGGCCACACATAGC ACAGCCACCAGTGTCTCAGAACTAGCAGTCAGGGTCACAGAACAGTATTCAAAATGATT GCCCACCTGTTTTAGAAATCTAAAATTTACATGTAAGAGCAAAGTGCTATGTGGG TTTTAGACCATGACTGTTTGTTTGCTCTCCTGCCCTACCACCAAGCAAAGCAGCAGGGCT CCTGGGGGAGAGGGATTTCACCCCCCTGATGGCAGGGGGTGCTCTGGGAGGAGAGAGG AGAGAACAGGCCTGTTTTGAAAACCTCCAGCACTTTGACTTCGGGCCATGCGCCTCTCCT GGACGCTTTGAGTACGGATCGCTCAGGCCTTCTGCCCTTTTTCAAAGGAGCGGCTCCCCC CGTCTCCAGGCCCCCCCTCATTTCTTCTCTTACCCCTTCTAATATGCTCACTCTTC ACCTTTACCCCCCCCCCCCCACCCCCCCCCATTCTCGCCTTCTCTCCCCACCTCCC CGTTGCTCTGATCTAAATTTCTCTCCCCCACACTCCTTCTTCTCCTCCTCNACCC TCCGTCTACGCCCCCCCCCTTTCTCCCTCCCTCCTCCCTTTTTCCCCCCTATCCCCCA TTCGTCTCTTCGACCATCCCCCTCTTCCCTTCGCTCCTCTCCCTCTCTTACCCCCC TATCTTCTTCCCGCTTTCCTCCTCACTCCCCCTCTCTCCTCCCCCTTTCT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014944
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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_014944.2</u> , <u>NP_055759.2</u>
RefSeq Size:	4965 bp
RefSeq ORF:	2916 bp
Locus ID:	22883
UniProt ID:	<u>O94985</u>
Cytogenetics:	1p36.22

Domains: CA

Protein Families: Transmembrane

Gene Summary: This gene is a member of the calsyntenin family, a subset of the cadherin superfamily. The encoded transmembrane protein, also known as alcadein-alpha, is thought to bind to kinesin-1 motors to mediate the axonal anterograde transport of certain types of vesicle. Amyloid precursor protein (APP) is trafficked via these vesicles and so this protein is being investigated to see how it might contribute to the mechanisms underlying Alzheimer's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in a shorter isoform (2) that is missing an internal segment compared to isoform 1.