

Product datasheet for **SC301405**

CLSTN1 (NM_001009566) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLSTN1 (NM_001009566) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLSTN1
Synonyms:	ALC-ALPHA; alcalpha1; alcalpha2; CDHR12; CST-1; CSTN1; PIK3CD; XB31alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC301405 representing NM_001009566.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
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Restriction Sites: SgfI-MluI

ACCN:	NM_001009566
Insert Size:	2946 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001009566.2</u>
RefSeq Size:	5243 bp
RefSeq ORF:	2946 bp
Locus ID:	22883
UniProt ID:	<u>O94985</u>
Cytogenetics:	1p36.22
Protein Families:	Transmembrane
MW:	109.8 kDa
Gene Summary:	This gene is a member of the calsynenin 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 (1) represents the longest transcript and encodes the longest isoform (1).