

Product datasheet for **SC322865**

Frequenin (NCS1) (NM_001128826) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frequenin (NCS1) (NM_001128826) Human Untagged Clone
Tag:	Tag Free
Symbol:	Frequenin
Synonyms:	FLUP; FREQ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC322865 representing NM_001128826. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGCAACGATTACCGAGAAGGAGGTCCAGCAGTGGTACAAAGGCTTCATCAAGGACTGCCCCAGTGGG
 CAGCTGGATGCGGCAGGCTTCCAGAAGATCTACAAGCAATTCTTCCGTTTCGGAGACCCACCAAGTTT
 GCCACATTTGTTTCAACGTCTTTGATGAAAACAAGGACGGGCGAATTGAGTTCTCCGAGTTCATCCAG
 GCGCTGTCGGTGACCTCACGGGGAACCTGGATGAGAAGCTACGGTGGGCCTTCAAGCTCTACGACTTG
 GACAATGATGGCTACATCACCAGGAATGAGATGCTGGACATTGTGGATGCCATTTACCAGATGGTGGGG
 AATACCGTGGAGCTCCCAGAGGAGGAGAACTCCTGAGAAGAGGGTGGACCGGATCTTTGCCATGATG
 GATAAGAATGCCGACGGGAAGCTGACCCTGCAGGAGTTCAGGAGGGTTCCAAGGCAGACCCGTCATT
 GTGCAGGCGCTGTCCCTCTACGACGGGCTGGTATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001128826
Insert Size:	519 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).


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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:	<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:	<u>NM_001128826.1</u>
RefSeq Size:	4878 bp
RefSeq ORF:	519 bp
Locus ID:	23413
UniProt ID:	<u>P62166</u>
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome
MW:	19.7 kDa
Gene Summary:	<p>This gene is a member of the neuronal calcium sensor gene family, which encode calcium-binding proteins expressed predominantly in neurons. The protein encoded by this gene regulates G protein-coupled receptor phosphorylation in a calcium-dependent manner and can substitute for calmodulin. The protein is associated with secretory granules and modulates synaptic transmission and synaptic plasticity. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) contains a distinct 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus when compared to isoform 1.</p>