

## Product datasheet for SC319095

### Frequenin (NCS1) (NM\_014286) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                               |
| Product Name:             | Frequenin (NCS1) (NM_014286) Human Untagged Clone |
| Tag:                      | Tag Free  |
| Symbol:                   | Frequenin   |
| Synonyms:                 | FLUP; FREQ  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC (PS100020)                               |
| E. coli Selection:        | Ampicillin (100 ug/mL)                            |

**Fully Sequenced ORF:** >OriGene sequence for NM\_014286.2  
 CCGGCCCGGGCCCGCCCGCCAGCCGCTCCTGCTGGGCGCCCAACCGGGTCCGGCCCGG  
 GGGGCGGGGGCCGCGGCCCGCCGAGGATGGGAAATCCAACAGCAAGTTGAAGCCCAGAG  
 TTGTGGAGGAGCTGACCAGGAAGACCTACTTTACCGAGAAGGAGGTCCAGCAGTGGTACA  
 AAGGCTTCATCAAGGACTGCCCAAGTGGGAGCTGGATGCGGCAGGCTTCCAGAAGATCT  
 ACAAGCAATTCTCCCGTTCGGAGACCCACCAAGTTTGCACATTTGTTTTCAACGTCT  
 TTGATGAAAACAAGGACGGGCGAATTGAGTTCTCCGAGTTCATCCAGGCGCTGTCGGTGA  
 CCTCACGGGAACCTGGATGAGAAGCTACGGTGGGCCTCAAGCTCTACGACTTGGACA  
 ATGATGGCTACATCACCAGGAATGAGATGCTGGACATTGTGGATGCCATTTACCAGATGG  
 TGGGAATACCGTGGAGCTCCCAGAGGAGGAGAACAACCTCCTGAGAAGAGGGTGGACCGGA  
 TCTTTGCCATGATGGATAAGAATGCCGACGGGAAGCTGACCTGCAGGAGTTCAGGAGG  
 GGTCCAAGGCAGACCCGTCATTGTGCAGGCGCTGCCCTCTACGACGGGCTGGTATAGT  
 CCCAGGCTGGAGCTGGATGCCTGGGAACCACTCACCTCCTTCTGTGCCATGAGGCCACCT  
 CAGCCCTGACACCAACCCGTCGCTCCACCCAGCCTTCTTCCGCATCCACACACAGCCGG  
 CTGCCCTTGACCCGGGAGGCCCGGCTCTCCTCTCCCCTGTCCTGACCCATCCCCCGCC  
 TGAAGCCACCGGCTCCAATTGCCAGCAACCTCTGCTTGTCCGAAAACGACAACAGAAA  
 TGGAAAAGGCTACAGCCCTCTGCATAAACAAGGACTTGGCTGCCTCGCAGGCAGCCTCC  
 GTTCTCCCGCTCTTTGCGCGTGTGCTTTTTTTTTTATTTTGAACAGACGTTTTAAAAG  
 AAAAAAAAAAACAACCTTCTGTCTAGAACACAGACTGACAGATGGGGTGAAGGCC  
 TGGGGACCTCAGAGAAGCTGCTTCCCTCGCTCCTCGTCTTCCGAGCCGGAGAGGC  
 TGTGGGTGGGCCGAGGGTGTCTAGGGTTCTGCCTAGTCAACGTTATTTGTGCTCCCATC  
 TTTTGGCAGAAAACCACTGCGTGGCTAGGATGATTAATTATGAGGATGATGATTTTTT  
 TTGTGATAACAGTATTGTGCTTTTTGTGGGAAAGTGAAGTTTTTTTTTATATACATAT  
 ATAATTGATATCTTTAATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire



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|                               |  |
|-------------------------------|--|
| <b>ACCN:</b>                  | NM_014286  |
| <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>OTI Annotation:</b>        | 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.   |
| <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>                | <u><a href="#">NM_014286.2</a></u> , <u><a href="#">NP_055101.2</a></u>  |
| <b>RefSeq Size:</b>           | 4341 bp  |
| <b>RefSeq ORF:</b>            | 573 bp   |
| <b>Locus ID:</b>              | 23413  |
| <b>UniProt ID:</b>            | <u><a href="#">P62166</a></u>  |
| <b>Cytogenetics:</b>          | 9q34.11  |
| <b>Domains:</b>               | EFh  |
| <b>Protein Families:</b>      | Druggable Genome   |
| <b>Gene Summary:</b>          | <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 (1) represents the longer transcript and encodes the longer isoform (1).</p> |