

# Recombinant Full Length Human NCS1 Protein, GST-tagged

**Cat. No.** NCS1-5145HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human FREQ full-length ORF ( AAH04856, 1 a.a. - 190 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 190 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</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]</p> |
| <b>Molecular Mass</b>   | 46.64 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | <p>MGKSNSKCLKPEVVEELTRKTYFTEKEVQQWYKGFIDKDCPSGQLDAAGFQKIYKQFF<br/> PFGDPTKFATFVFNVDENKDGRIEFSEFIQALSVTSRGTLDEKLRWAFKLYDLND<br/> GYITRNEMLDIVDAIYQMVGNVELPEEENTPEKRVDRIFAMMDKNADGKLTQLQEFQ<br/> EGSKADPSIVQALSLYDGLV</p>                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|-----------------------|----------------------------------------------------------------------------|
|                       | Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.     |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.   |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.   |

## GENE INFORMATION

|                        |                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NCS1 neuronal calcium sensor 1 [ Homo sapiens (human) ]                                                                                              |
| <b>Official Symbol</b> | NCS1                                                                                                                                                 |
| <b>Synonyms</b>        | NCS1; neuronal calcium sensor 1; FLUP; FREQ; neuronal calcium sensor 1; frequenin homolog; frequenin-like protein; frequenin-like ubiquitous protein |
| <b>Gene ID</b>         | 23413                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_001128826                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_001122298                                                                                                                                         |
| <b>MIM</b>             | 603315                                                                                                                                               |
| <b>UniProt ID</b>      | P62166                                                                                                                                               |

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