

Product datasheet for MC202420

Ncs1 (NM_019681) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ncs1 (NM_019681) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ncs1
Synonyms: 9430075O15Rik; A730032G13Rik; AI836659; Freq; Mfreq; NCS-1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC059825 sequence for NM_019681
 CTCCTCGCCGTGGCCGCTTGACCCGCAAGGCCTGGCCCTCGCCGGTCCCCGAGGCCCTTGAACCGTC
 AGCCGCGGTGCGCGCAGCAGCCGCGGAGCCCGCGCACGGGACGCGGGGCACGGCCAGACAAGGCGCGGC
 CCCGCCCCGCCCCAGCCGGCCTGCCGGCTCCGCGCACCCGCGCCGACCAACCGCTCCCGCTGGGCG
 CCCCAGCGGGTCCGGCCGGGAGCGGGGCCGCGGCCGCGAGCATGGGAAAATCCAACGCAAGTTG
 AAGCCTGAAGTTGTGAGGAGCTGACCAGAAAACTACTTCACTGAGAAAGAAGTACAGCAGTGGTACA
 AGGGCTTCATTAAGGACTGCCCCAGCGGCAGCTGGATGCCGCTGGCTTCCAGAAGATCTACAAGCAGTT
 CTTCCCATTTGGAGACCCACCAAGTTCGCCACGTTTGTTCACAGTCTTCGACGAGAACAAGGATGGC
 AGGATTGAGTTCCGAGTTCATCCAGGCACTGTCGGTGACCTCAAGGGGACCTGGATGAAAAGTTGC
 GATGGGCTTCAAGCTTATGACTTGGATAACGATGGCTACATCACCAGGAACGAGATGCTCGACATAGT
 GGACGCCATTTACCAGATGGTGGGAACACCGTGGAGCTCCAGAGAAGAAGAGAACACACCAGAGAAGAGG
 GTGACCGGATCTTGGCATGATGGACAAGAATGCTGATGGGAAGCTGACTCTTCAGGAGTCCAGGAAG
 GCTCCAAGGCTGATCCCTCCATTGTGCAGGCGCTGCCCTCTACGATGGGCTGGTATAGTCCAGGCCAG
 AGCTGTGATGTGTGGAAACCACTAGCCTCTTCTGTGCCATGAGGCCACCGCAGCCTGACACCGCCCTG
 TGCCACCCAGCCTTCTCATCTCCACAAAGCCAGCCGCCCTTAGCCTCCAGGCCCTGGTTCTCTTCCC
 CCCTGCCCTGCATCCACCTGCCGCTGAAGCCACTGGTCCAATCGTCAACAACCTCCGCTTGTCCAAAA
 CAACGACAAACCGAAACGAAAGGCTCCAGCCCTTGCAAAACTGAGCGCCCGGCTGTCTCCCTCGGCAG
 CCACCCCATCTCTCTGCTGTCCGGCCTGTGTCTTTCTTTTTTATTTCAAACGGACATTGTAAGAA
 AACAACTACCTTCTGTTCTAAAGGATACTGACCATTGGGAGAAGCCTCTGTCTCAGAGAAGTCACT
 CTGCTGCTCCCTGAAGTGGTGGTGACCAAGGCCAGTGAGGCTGCTGGCAGCAAGGGTGTAGTGGCAG
 TGGCTCACGTGATAACAGTATTGTGCGTTTTGTGGAGAACTGAGGGTTTTTTTTTATACTCATATATAA
 TCGAACCTTTTATTTATTGGTTGTTAACTCTTGTGCTACCTTGTGTGCTGAACTCCCAGGATGCTGG
 GCCTCCGTTTACATGTGCACACCCTCATCCACCTGCCTCACTTGGGAGGATGGTGGCTGCAGCGG
 CCAAGAAGCCAAAAATCTTTTCTTTTTTTTTTCTCAGATACTGTGCCCATTTTTGGAGAGGGGAAG
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 GCTCTCCTTGAATCCATAACACTTTTTTCAAAAACAACTTGAGGTTTTTTTTTTTTTTTTTTTTTTT
 TTAATTTTGAACCTTAAATTTGATGTTAACAGCAGAAAGAAAATGGAGACCTTGTCTGAGAGTAGGA



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GCTAGGAGAGTGTGCCGACACAGTAGAGAGCGTATGAAGTGGGTTTCCCTGCAAACCTGCTGGCCTCA
 GCCTCCCTGATGCTAAGAGGCTGGGTAGGTGTGGCATGTGAATCCCTCTGCTCTCCTGCCCTGACTGCTT
 TTTGCAGTAGTCTTCTCCCTACCAGGAGTCTGAGAAAGAAGGGGTAGGAGGATAACACCAGGCCCTGTT
 GGTCTCAGGACTGGGTCAGAGCCAGAGAGATGGCTCCATACTTGTACCAGGAGGAGCGGCAACCAT
 GGCTTCTCTGGGACTTTGTAGTCTTCCCTTCTCGATCAGCAGGGCTGGAAGGCCTGGTGGTTGGCTTTG
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 GATTTCCAGACTCTTGTAGTCCCTTTGGGCTCATCCTCACCCCTGGGGAGCTTTCCGGGTGAGCCTCTCA
 GCTGCAGAGGCAGACCTAAGCTCACAGTCTTGTCTTAGTTTGTAACTCTCTGCCACCATTGAGA
 GGGGAAATTGGTCCCGGATTTTCTTCTGCTGACTCTCTGTAATCTCCAGCATACTTCTGGGAGA
 CCAAAATCTTCTTGTAAATGACCTGTGGATGAGCAGCTGTCCCCTGGAGGATTGATGTCCCCATCAAT
 AGGTGGCTTTGGCTGCCTGTCCATCCCTGTGGTGGGAATGCTTAGCTAGTCCATGCACACTCCCTTTCC
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 ACCTCTTTGGGTATCTTCTGCTTGTATCCCTGACATGTCTAGAGAGTAGATGTGGTGCATAGGTTGA
 GAGGCCCTCTCTGGTCTCTGGAGACTCAGCTGTCCCTCTGTCAGTGGACATTTTTGGTGGCATCAAGA
 CCCAGTGATTCCAAGCTGAGGAGAGGCTCCTCAGCTAAGGTGTTCACTTTTTTCTGTGGTCCAGGCTTC
 CTCTCAGGATCTCGGCTTTTGGTTTGTAGCCTTCACTGTGGCTTTTGGTCTTACAGTTTATGTCTTG
 GGTCCAAGCCTCGGACTTTGAGACAGCCCTGGGCTGCCTTTTCTGGCAGGGTGTGGGACTGTTTTTG
 TTCAAGGACGCGTGTGACTGATGTCTGTCTCTTTTACCAGCAGTTAGCTGAGGCACACAGCAGCCCC
 AGAATCTGAGGCCAGGCCCTTCTGTGCAGCCTGAGGACCTCTCCAAGTTCATTTCCACAGAGGCCCCAC
 CCCATCTGATTCTGCTTTCTTTAGGGGTGTGGTCCAGCCAGTGGCCAGGCCCTTGGTACCTCGGCAGA
 CCTCCTTTCTAGGGCCAGGAATGCTGTGACCCCTCTTCCCAGCATCTGCTGCCACCTTGTGTGCGAG
 GTGACTTGGGAGCCTATCACGACTTTTCAATCTAGCCAGGTTTAAAATAACAAGGCAAAATGATGTCAG
 CATTGACATCTTTCTTTAAATGGTCTACAGTTTACAGGCCATTTTCTAGGAAGCTGTGTTTCTTTG
 CACTTTGGGGACCTTGTCTTCTTAGGAGATAGTGGGTGTGCAGTCCCTGGGGATCCCTGGCATCTCT
 CCTGAGAAAGCCCCACTGCTGGCCAAGCAGAAAGCCTCCAAGATTCTTTCCAGTGTGTTTCTGCATTTA
 CATGATCTAAAGATGCATGGGGACGCCCTGGTGGTGTGAGCCGAGTGGCACCCGGGGATGCAGTGG
 TCCAGCCAGAGGTGAGGCTAGAGGTGGGAAGGCCAAGGTGGGGCTGTGATTTCCGAGGTCTGGGCCCC
 CAGCCCTACATATCTGGCAGCATGCCTCCACCCACACCTCTGCTAGGTCAGCTGGGACTGGCAAGGTAG
 TTGGCATAAGGGCACAGTGGGAAGCTTTGCCCTCCAACCTTAATTTTTTAAAAAATATCTGCAGAATA
 AATCCAATGGTTAATTTTTGAATGAATAAAAGGCTTTTGTGAATAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Ascl-NotI
- ACCN:** NM_019681
- Insert Size:** 573 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.

RefSeq: [BC059825](#), [AAH59825](#)

RefSeq Size: 4057 bp

RefSeq ORF: 573 bp

Locus ID: 14299

UniProt ID: [Q8BNY6](#)

Cytogenetics: 2 B

Gene Summary: Neuronal calcium sensor, regulator of G protein-coupled receptor phosphorylation in a calcium dependent manner. Directly regulates GRK1 (RHOK), but not GRK2 to GRK5. Can substitute for calmodulin (By similarity). Stimulates PI4KB kinase activity (By similarity). Involved in long-term synaptic plasticity through its interaction with PICK1 (By similarity). May also play a role in neuron differentiation through inhibition of the activity of N-type voltage-gated calcium channel (By similarity).[UniProtKB/Swiss-Prot Function]