OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC113130

NCKX2 (SLC24A2) (NM_020344) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NCKX2 (SLC24A2) (NM_020344) Human Untagged Clone
Tag:	Tag Free
Symbol:	NCKX2
Synonyms:	NCKX2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_020344, the custom clone sequence may differ by one or more nucleotides

ATGGATCTGCAACAAAGCACCACCATCACTTCCCTAGAGAAATGGTGTTTGGATGAGTCACTGTCTGGCT
GCAGAAGACATTATAGTGTCAAGAAAAAACTGAAGTTAATTCGAGTCTTAGGCCTTTTCATGGGTCTGGT
AGCCATTAGCACTGTCTCATTTTCAATCAGTGCCTTTTCTGAGACAGATACACAGAGCACAGGAGAGGCC
AGTGTTGTAAGTGGCCCTAGGGTAGCACAGGGTTACCATCAGAGAACTCTCTTAGATTTAAATGACAAGA
TTCTGGATTATACTCCACAGCCACCTCTTTCTAAGGAAGGCGAGTCTGAGAATAGTACAGATCACGCCCA
AGGAGACTACCCGAAAGACATCTTTTCCCTTGAGGAGAGAAGAAAAGGTGCGATCATTCTGCATGTCATT
GGAATGATCTACATGTTCATAGCCTTAGCCATTGTCTGTGATGAGTTCTTTGTTCCTTCTTTGACTGTCA
TCACTGAAAAACTGGGCATCTCTGATGATGTGGCTGGAGCCACCTTCATGGCTGCAGGAGGGTCAGCCCC
AGAACTTTTCACATCTCTCATAGGGGTATTTATCGCTCACAGCAACGTTGGCATAGGCACAATTGTAGGT
TCAGCAGTATTCAACATCCTCTTTGTTATTGGCATGTGTGCTCTGTTTTCTAGAGAAATCTTAAACCTGA
CATGGTGGCCGCTCTTTCGAGATGTGTCTTTCTACATTGTTGACTTGATCATGCTGATCATATTTTTCCT
GGATAATGTCATCATGTGGTGGGAAAGCTTGCTTCTCTTAACAGCTTATTTTTGCTATGTGGTTTTCATG
AAATTCAACGTCCAAGTAGAAAAATGGGTGAAGCAAATGATAAACCGCAATAAGGTCGTCAAGGTGACAG
CACCAGAAGCCCAAGCAAAGCCATCTGCAGCCAGGGACAAGGATGAACCAACTCTACCGGCTAAGCCGCG
TCTCCAGCGAGGTGGAAGCTCTGCCTCCCTCCACAACAGTCTCATGAGGAATAGCATCTTCCAACTCATG
ATACACACCCTTGACCCACTCGCCGAAGAACTTGGATCATATGGAAAACTAAAATATTATGACACAATGA
CTGAAGAAGGGAGGTTCAGAGAAAAGGCTTCAATTCTCCACAAGATCGCCAAGAAGAAATGTCATGTGGA
TGAGAACGAGAGGCAGAATGGGGCTGCCAACCACGTGGAAAAAATTGAGCTTCCAAACAGCACCAGCACA
GATGTTGAAATGACACCATCCAGTGATGCTTCAGAACCTGTACAAAATGGAAATCTCTCCCACAACATTG
AAGGTGCAGAAGCCCAGACCGCTGATGAGGAGGAGGACCAGCCTCTCAGCCTTGCCTGGCCTTCTGAAAC
CCGCAAGCAAGTCACGTTTCTGATTGTTTTCCCCATAGTGTTTCCTCTCTGGATTACGTTACCTGACGTT
CGCAAACCTTCATCGAGGAAGTTTTTTCCCATCACGTTCTTTGGCTCCATTACCTGGATTGCAGTATTCT
CTTACTTGATGGTCTGGTGGGCGCACCAGGTTGGAGAGACAATTGGCATCAGTGAAGAGATTATGGGCCT
GACCATCTTGGCTGCTGGGACCTCCATCCCTGATCTTATCACCAGTGTCATAGTGGCCCGGAAGGGGTTA
GGGGACATGGCTGTGTCCAGCTCTGTTGGAAGCAACATTTTTGACATCACTGTAGGGCTCCCACTGCCCT
GGCTCCTGTACACCGTCATTCACAGATTCCAGCCAGTGGCTGTCAGCAGCAATGGCCTTTTCTGTGCCAT
CGTCCTTCTCTTCATCATGCTGCTCTTCGTCATCCTCTCTATCGCCCTCTGCAAGTGGCGAATGAACAAA
ATCCTGGGCTTCATCATGTTTGGCCTCTACTTTGTGTTCCTGGTGGTGAGCGTTCTCCTAGAAGACAGAA
TTCTTACATGCCCCGTCTCCATCTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020344 unedited
GGGGGGGNNNNGGGGGNNNNNNNNNNNNTNNNNNNNNTTTTTTACACCCGCCCGTTGNC
NCAAAGGGCGGTAGGCGTGTACGGTGGGNGGTCTATATAAGCAGAGCTCATTTAGGTGAC
ACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGGCATA
AGATGACCCCAAAGTTGACAGCACTTTCAGGCTTTGTGAATTAGGCGCGTCACCGACCTG
TACGATTTCTCCTCTCTGCCCTTGCTCGCCTGCAAATCCTGACCCCCGTCCACACTGCGG
AGAAATCTCCTAAGAGACGGCTGCCAGCGTCGCCTCTGCGCCCAGGAGGCGTGGAGCAAA
GGACTCGGGAGCTGAGCGCGCTGCGGCCCCGCTCCCAGCGCACAGCGCACAGCCCAGAGG
GAGGGGCCGGCGGGGGCCGGGCAGCGCCAGACTCGGAGCGCCGGGCTCACAGCGGCTCAG
TCTCCTCCCGAACCCAGCCCGGCTGGCGAGAGCGGCAGCCAGTGCGAGCCAGAGCCCGGG
CCTCAGAGCGGGTAGGCGGAGGGCCGGCGGACTGGAGCGGCGGGCCGCGCTCGGGGGCCC
CGCCGTGTGCGCGTCCTCCCATCTTATCCTGCATAAATGATGAAAGTTTCCTGTGAAGCA
TAACAATCCCTGATTGTGAAAGTACCCCACAAGCATCGNTAACTATAAAGTAAGGAAAAG
TATGAAAGAACCATCTGGTTGAGTCTAAAGTTGGGAAGATCACCATATCCACCAGAAGAC
CCAGNATGGATCTGNCACANAGCACCACCATCACTTCCCTAGAAAAATGGTGTTTGGATG
AGTCACTGTCTGGCTGCAGAAGACTTATAGTGTCAGGAAAAACGGAAGNTAATTCGAGTC
TTAGCCTTTTCATGGGNTCTGGTAGCCATTACCC

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_020344 unedited
CGTACATTATGNACGCGCCGCAATCTATGATCGGTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTGCGGGCCACCCATTTTTTTTAAATTGGGGAAT
ACCATGGTGGCCCTTGAATTGTTGATATCTTTTATACCCCGCCCCCAAAAAACAAAAAAA
GTTTCTGCCGCCCAAATTTTTGCTTTGGATTTTCTGGGGGGGTTTCTTTGCCCCTTTTTC
AACATTAGGGATATGGCTGACCCATTTCCTTAAGGCTTTAAATTGGTTTTCTTAAGGGGG
GAAAAAATGGGGCCCAATGGGGATATTTGGAAAAATATGGGCCGGGAACAAACAACCTTT
TTAAATCCGGAAAAAATGTTCCCTTTGGGTTGGGGGCAAGAATTTCCTTTTCCTTGACTT
TGGCAAACTTGATGCCCCCCGCTTTAAAATCCCGAATGGGAAAGGGCCAAAAGGGGATGA
TGTAAACCAAATTATATGGGGCCCAATAAATCCGGGATAAAAATTTTTTTATATATAGGG
GTATATTTAAAAATGGGAATACCCCGGCCTGCCGGAAACCAGTTAAAAATGACCCGGTTT
GGAAACCCCGGGGGGGAAAGTTCTTATAATTATGCCCATGATTTGAATGGGTTAAAGACC
CCTTGGTGAACTCTGGACCCATCTCTCTGAATTTACCCTGGCTCAAACATAACCCCTTTC
CGACCCCAAAATTAAGGGAAAGCCAGGGGCCGGCCGGGGAATCCCTTGGGGCCCCATCCA
ATGAAGGAACAAGGCTTGTGTTAGTCAAGCCCAATGCACATGACTGATTTGGGAACGGGG
CTTGGAAAATTTTGTCCTCCCAAAAGCACCTTCACCTGAAAAAC
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Restriction Sites: NotI-NotI

ACCN: NM_020344

Insert Size: 6000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: NM_020344.1, NP_065077.1

RefSeq Size: 10857 bp

RefSeq ORF: 10857 bp

Locus ID:	25769
UniProt ID:	Q9UI40
Cytogenetics:	9p22.1-p21.3
Domains:	Na_Ca_Ex
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a member of the calcium/cation antiporter superfamily of transport proteins. The encoded protein belongs to the SLC24 branch of exchangers, which can mediate the extrusion of one Ca2+ ion and one K+ ion in exchange for four Na+ ions. This family member is a retinal cone/brain exchanger that can mediate a light-induced decrease in free Ca2+ concentration. This protein may also play a neuroprotective role during ischemic brain injury. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.