

## Product datasheet for **SC124159**

### **KCNK5 (NM\_003740) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNK5 (NM_003740) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNK5
Synonyms:	K2p5.1; KCNK5b; TASK-2; TASK2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC124159 sequence for NM\_003740 edited (data generated by NextGen Sequencing)

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ATGGTGGACCGGGGCCCTCTGCTCACCTCGGCCATCATCTTCTACCTGGCCATCGGGGCG
GCGATCTTCGAAGTGCTGGAGGAGCCACTGGAAGGAGGCCAAGAAAACTACTACACA
CAGAAGCTGCATCTGCTCAAGGAGTTCCTGCTGGGTGAGGAGGCGCTGGACAAGATC
CTAGAGGTGGTATCTGATGCTGCAGGACAGGGTGTGGCCATCACAGGGAACCAGACCTTC
AACAACTGGAACGGCCCAATGCAATGATTTTTGCAGCGACCGTCATTACCACCATTGGA
TATGGCAATGTGGCTCCCAAGACCCCGCGGTGCGCTTCTGTGTTTTCTATGGTCTC
TTCGGGGTGGCGCTCTGCTGACGTGGATCAGTGCCCTGGGCAAGTTCTTCGGGGACGT
GCCAAGAGACTAGGGCAGTTCCTTACCAAGAGAGGTGTGAGTCTGCGGAAGGCGCAGATC
ACGTGCACAGTCACTTCATCGTGTGGGGCGTCTAGTCCACCTGGTGTCCCACCCTTC
GTATTCATGGTGACTGAGGGGTGGAACACATCGAGGGCCTCTACTACTCCTTCATACC
ATCTCCACCATCGGCTTCGGTGACTTTGTGGCCGGTGTGAACCCAGCGCCAACCTACCAC
GCCCTGTACCGCTACTTCGTGGAGCTCTGGATCTACTTGGGGCTGGCCTGGCTGTCCCTT
TTTGTCAACTGGAAGGTGAGCATGTTTGTGGAAGTCCACAAGCCATTAAGAAGCGGCGG
CGGCGACGGAAGGAGTCCCTTTGAGAGCTCCCCACACTCCCGGAAGGCCCTGCAGGTGAAG
GGGAGCACAGCCTCCAAGGACGTCAACATCTTCAGCTTTCTTTCCAAGAAGGAAGAGACC
TACAACGACCTCATCAAGCAGATCGGGAAGAAGGCCATGAAGACAAGCGGGGGTGGGGAG
ACGGGCCCCGGGCCAGGGCTGGGGCCTCAAGGCGGTGGGCTCCCAGCACTGCCCCCTTC
CTGGTGCCCTGGTAGTCTACTCCAAGAACCGGGTGGCCACCTTGGGAAGAGGTGTACAG
ACACTGAGGAGCAAAGGCCACGTATCAAGTCCCAGATGAGGAGGCTGTGGCACGGGCC
CCTGAAGACAGCTCCCCGCCCCGAGGTGTTTCATGAACCAGCTGGACCGCATCAGCGAG
GAATGCGAGCCATGGGACGCCAGGACTACCACCCTCATCTTCCAGGACGCCAGCATC
ACCTTCGTGAACACGGAGGCTGGCCTCTCAGACGAGGAGACCTCCAAGTCCCTCGTAGAG
GACAACTTGGCAGGGGAGGAGAGCCCCAGCAGGGGGCTGAAGCCAAGGCGCCCCGTAAC
ATGGGCGAGTTCCCTCCTCCTCCGAGTCCACCTTACCAGCACTGAGTCTGAGCTCTCT
GTGCTTACGAACAGCTGATGAATGAGTACAACAAGGCTAACAGCCCCAAGGGCACATGA

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Clone variation with respect to NM\_003740.3

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_003740 unedited
TATACGACTACTATAGGGCGGCCGCAATTCGGCACACAGGCGACGCGTGGAGAAGCGGCC
CACGTGTCTGCCAGAGTCAAGTCTGTGTTCTTCCCGCTCCTTACGCATCCGCGGTCCA
GGGCGCCCTTTCAGCCCCGCTGGTGTTCGCCCACCCCGGGCCGCGTGAGTGGGGCCCCAC
GCAGCTCCCCGCACTCCGTGGGCCAACTTGCCAAAGCAACTCTGTCCGGGGAGCGGTGCT
TGCGGGGGGTGAGTACCGGGCACTGCGCATGCGGAGCTCCAAATCAAACAGCTGTTTTTC
AGAGGCTGGAGGGCGGGCGGACTGGTAGCAGCTGGGGCTAGGAGAGGCTTCTCTAGGAG
GCGGCGGCTCGGGAGCCATGGTGGACCGGGGCCCTCTGCTCACCTCGGCCATCATTTCT
ACCTGGCCATCGGGGCCGCGATCTTCAAGTGTGAGGAGCCACACTGGAAGGAGGCC
AAGAAAACTACTACACACAGAAGTGCATCTGCTCAAGGAGTTCCTGCTGCTGNGTCAA
GAGGGCTGGACAAGATCCTAGAGGTGGTATCTGATGCTGCANGACANGGTGTGGCCATC
ACAGGGAACCAGACCTTCAACAACCTGGGACTGGGCCATGCANTGATTTTTGCAGCGACC
GTCATTACCACATTGGATATGGCAATGTGGCTCCCAAGACCNCCGCGGTGCGCTCTTC
TGTGTTNTCTATGGTCTCCTCGGGTGCCCTCTGCTGACGTGGA

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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003740 unedited AACTTCCAGGCCAGGAGAGGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTT CAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTTTTTTTTGGCCTGTCCACCTCATG TTTTATTGTAATAATGTTAAATAAATTACATTTGACATCGTTGCCAGTATGTACATACA GTGTGCGCGATGCCAGGACAACCAGCAACAACATGGTTCATTAACATTTACAGAAAA ATACGAGGCTGCTCCTTTTCAGGCCCTGCTGGGTGGCGCCTCTGCAAACGGCTAGAGA AGTGGGGTGTGGGCACGTGCCATCACTGTCTTACATGTTGGGGAGGTGGGCTCTGGC CCCACTGCCCCACAGTAGTGGGGCAGAAGGCAGAGAGTGAACGGAGCTGAGCGGCTCTGA TGACTTGCTTCCTGCCCGCCTCCAGTACCCGAGTGGATGCCCTTCCTGCTTTTGCT CACCTCAGTGTCCCTTCTCCACCTCTGCTTGGGGACATGGCCCTTGACATCATGGCCTT GGATGAGGTCANCCGAAAAGGCCAATTGAGTTGCANGGCAGGAGGGCAGACTAGATC TCCAATCCTTGGGACCCTGCTCTTAACCACTGGCTCTGAAGCCAACAACAGATTCCAG GTATATAAAAACAGCAGTTTGTAAAAAATAAAACAAAAATAACAAAAACATTACAGGA CACAGTGGCCAGCCCCAGGGTGAACATCATGGAGAACCCAGAACTCTA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003740
<b>Insert Size:</b>	3600 bp
<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>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>	<a href="#">NM_003740.2</a> , <a href="#">NP_003731.1</a>
<b>RefSeq Size:</b>	3514 bp
<b>RefSeq ORF:</b>	1500 bp
<b>Locus ID:</b>	8645
<b>UniProt ID:</b>	<a href="#">O95279</a>
<b>Cytogenetics:</b>	6p21.2
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane

**Gene Summary:**

This gene encodes one of the members of the superfamily of potassium channel proteins containing two pore-forming P domains. The message for this gene is mainly expressed in the cortical distal tubules and collecting ducts of the kidney. The protein is highly sensitive to external pH and this, in combination with its expression pattern, suggests it may play an important role in renal potassium transport. [provided by RefSeq, Jul 2008]