

Product datasheet for **SC128165**

epithelial Sodium Channel gamma (SCNN1G) (NM_001039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	epithelial Sodium Channel gamma (SCNN1G) (NM_001039) Human Untagged Clone
Tag:	Tag Free
Symbol:	epithelial Sodium Channel gamma
Synonyms:	BESC3; ENaCg; ENaCgamma; LDLS2; PHA1; SCNEG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC128165 sequence for NM_001039 edited (data generated by NextGen Sequencing)

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ATGGCACCCGGAGAGAAGATCAAAGCCAAAATCAAGAAGAATCTGCCCGTGACGGGCCCTCAGGCGCCGA
CCATTAAGAGCTGATGCGGTGGTACTGCCTCAACACCAACACCCATGGCTGTCGCGCATCGTGGTGTC
CGGCGGCCGTCTGCGCCGCTCCTCTGGATCGGGTTCACACTGACTGCCGTGGCCCTCATCTCTGGCAG
TGGCCCTCCTCGTCTTCTCCTTCTATACTGTCTCAGTTTCCATCAAAGTCCACTCCGGAAGCTGGATT
TTCTGCAGTCACCATCTGCAACATCAACCCCTACAAGTACAGCACCGTTTCGCCACCTTCTAGTGACTT
GGAACAGGAGACCAGAGAGGCCCTGAAGTCCCTGTATGGCTTTCCAGAGTCCCGAAGCGCCGAGAGGCG
GAGTCTGGAACCTCGTCTCAGAGGAAAGCAGCCTAGATTCTCCACCGGATCCGCTGCTGATCTTTG
ATCAGGATGAGAAGGCCAAGGCCAGGGACTTCTCACAGGGAGGAAGCGGAAAGTCGGCGGTAGCATCAT
TCACAAGGCTTCAAATGTATGCACATCGAGTCCAAGCAAGTGGTGGGATCCAAGTGTCTCAAATGAC
ACCTCCGACTGTGCCACCTACACCTTCACTCGGGAATCAATGCCATTCAAGGAGTGGATAAGTACACT
ACATGAACATCATGGCACAGGTGCCTCTGGAGAAGAAAATCAACATGAGCTATTCTGCTGAGGAGCTGCT
GGTGACCTGCTTCTTTGATGGAGTGTCCGTGATGCCAGGAATTTACGCTTTTCCACCACCCGATGCAT
GGGAATTGCTATACTTTCAACAACAGAGAAAATGAGACCATTCTCAGCACCTCCATGGGGGGCAGCGAAT
ATGGGCTGCAAGTCATTTGTACATAAACGAAGAGGAATACAACCCATTCTCGTGTCTCCACTGGAGC
TAAGGTGATCATCCATCGGCAGGATGAGTATCCCTTCGTGCAAGATGTGGGAACAGAGATTGAGACAGCA
ATGGTCACCTCTATAGGAATGCACCTGCAGAGTCTTCAAGTGTAGTGGCCCTACAGTCAAGTGCACGG
AGGACGGGAGTGACGTGCCAATCAGGAACATCTACAACGCTGCCTACTCGCTCCAGATCTGCCTTCACTC
ATGCTTCCAGACAAAAGATGGTGGAGAAAATGTGGGTGTGCCAGTACAGCCAGCCTTACCTCCGAGCC
AACTAGTCAACTACCAGCAGCACCCCAACTGGATGATTTGTTACTACCAACTGCATGAGCCTTTGTCC
AGGAAGAGCTGGGCTGCCAGTCTGTGTGCAAGGAAGCCTGCAGCTTTAAAGAGTGGACACTAACCCAAG
CCTGGCACAATGGCCATCTGTGGTTTCGGAGAAGTGGTTGCTGCCTGTTCTCACTTGGGACCAAGGCCGG
CAAGTAAACAAAAGCTCAACAAGACAGACTTGGCCAACTCTTGATATTCTACAAGACCTGAACCAGA
GATCCATCATGGAGAGCCAGCCAACAGTATTGAGATGCTTCTGTCCAACCTCGTGCCAGCTGGGCT
GTGGATGAGTGTCTGTGTCTGCGTCATCGAGATCATCGAGGCTTCTTCAATTGACTTCTTCTATC
ATTGCCCGCCGAGTGGCAGAAAGCCAAGGAGTGGTGGGCTGGAAACAGGCTCCCCATGTCCAGAAG
CTCCCCGTAGCCACAGGGCCAGGACAATCCAGCCCTGGATATAGACGATGACCTACCCACTTTCAACTC
TGCTTTGCACCTGCTCCAGCCCTAGGAACCAAGTGCCTGGCAGCACCCGCCCCCAATACAATACCTTG
CGTTGGAGAGGGCCTTTTCCAACCAGCTCACAGATACCCAGATGCTGGATGAGCTCTGA
    
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Clone variation with respect to NM_001039.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001039 unedited
TGTCAGGTTTTAATTTGTATACGACTCATATAGGGCGGCCGAATTCTCGAGCTCTAG
CGAGGTGACAGCGTAGAACAGAAAGAGCCCGGTGGCGCTGCCAGGGGATGCTAGCCCC
AGAGCGAGCAGAGGAGCAGCGCACCCGACGAGCCTTGGACCTTTGAAACCGAAAGCAC
GCCCGTCTCAGAGTCCCGTCTCAAAGTCCCATCCTCGCCATGGCACCCGGAGAGAAGA
TCAAAGCCAAAATCAAGAAGAATCTGCCCGTGACGGGCCCTCAGGCGCCGACCATTAAG
AGCTGATGCGGTGGTACTGCCTCAACACCAACACCCATGGCTGTGCGCCATCGTGGTGT
CCCGCGCCGTCTGCGCCGCTCCTCTGGATCGGGTTCACACTGACTGCCGTGGCCCTCA
TCCTCTGGCAGTGCGCCCTCCTCGTCTTCTCCTTCTATACTGTCTCAGTTTCCATCAAAG
TCCACTTCCGGAAGCTGGATTTTCTGCAAGTCAACATCTGCAACATCAACCCCTACAAGT
ACAGCACCGTTCGCCACCTTCTAGCTGACTTGGAAACAGGAGACCAGAGAGGCCCTGAAGT
CCCTGTATGGCTTTCCAGAGTCCCGAAGCGCCGAGAGGCGGAGTCTGGAACTCCGTCT
CAGAGGAAAGCAGCCTAGATTCTCCACCGGATCCGCTGCTGATCTTTGATCAGGATG
AGAAGGGCAAGGCCAGGGACTTCTTACAGGGAGGAAGCGGANAGTCGGCGGTAGCATCA
TTCACAAGGCTTCAAATGTATGCACATCGAGTCCAAGCAAGTGGTGGGATTTCAACTGT
GCTCAAATGACACCTNCGACTGTGCCAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_001039 unedited NAAANCTTGNAAATCGGTACCAAATCTGAATTCGAATCTCATATCATTTTCATGAGTCACA GAATCTTCTTCTTTTGCTATTTAAAAGCAAAAATAAAATTCTTGGCTGGGCACGGTGGC TTGTGCCTGNTATCCCCTGCACTTTGGAGGCTGAAGTGGGAAGATCATTGNAGCCAGGA GTTCAAGACAGCCTGGGCACATAGTGAGATCCTAATTCTCNNNNATANNATNNNTTN NNTNNNTTTTAAATTCATGGTCAAAAACAGGATTGCTGTGGAACAACCATTTGGATTC CCTATGGCAAACCATATTTGTGGCTAAAAAAGTCCCAAAACCCCGGTTTGGTTGGCCTT TAAACCCCCCGGTTTAAACCGGTGACCCCTTCTGGGGGAAAAAAGAAAGTGGGTAA AAGGGGAACCTTGGGAATTGGCTTTTTGTGAGGAAAACCCCTTTTATAAAGGGACCT TTTTTTTAAACATCCCCAAAAGGGCCCCATTTTTCCCTCTCCCCAAATTGGGACAAC CCCCCCTTTAAGGCCCCCCCATTTTTGCCCACTGGGGGCCAAATGGGGGGGAAA AAAAAATGTGGCCCCCCCCATTGTGGGCCCTGGGCGGAGATAAATATTTTTGTGG CCCTTTTTTTTCCCCACATGGTAAAAAATAAATCTTCGGGGGCCCCACCTCCC CCAAGAGGAGCCTTTTCATAATCCACAAAACCCACCGGGTTTTTTGTTCCCAAC ACCTTGGGGCCCTGGGCATTTA
Restriction Sites:	Please inquire
ACCN:	NM_001039
Insert Size:	4100 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:	<ol style="list-style-type: none"> 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_001039.2 , NP_001030.2
RefSeq Size:	3516 bp
RefSeq ORF:	1950 bp
Locus ID:	6340
UniProt ID:	P51170
Cytogenetics:	16p12.2
Domains:	ASC
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Protein Pathways:	Taste transduction

Gene Summary:

Nonvoltage-gated, amiloride-sensitive, sodium channels control fluid and electrolyte transport across epithelia in many organs. These channels are heteromeric complexes consisting of 3 subunits: alpha, beta, and gamma. This gene encodes the gamma subunit, and mutations in this gene have been associated with Liddle syndrome. [provided by RefSeq, Apr 2009]