

Product datasheet for **SC215043**

VGCNL1 (NALCN) (NM_052867) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	VGCNL1 (NALCN) (NM_052867) Human 3' UTR Clone
Symbol:	VGCNL1
Synonyms:	bA430M15.1; Canlon; CLIFAHDD; IHPRF; IHPRF1; INNFD; VGCNL1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_052867
Insert Size:	1549 bp



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Insert Sequence: >SC215043 3'UTR clone of NM_052867
 The sequence shown below is from the reference sequence of NM_052867. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAAAGTGGGGATGACCTTCTGGATATTAGGTGGATGTCATGTAGATGAATTTCTAGTGGTGAAACC
GTTTTCTAATAATGTCCTTGATTGTCCAGTGAGCAATCTGTAATTGATCTATAACTGAATTCAGCTTG
TCACAAGATGTTTATAAATTGATTTTCATCCTGCCACAGAAAGGCATAAGCTGCATGTATGATGGTTA
CTATCAATCATTGCTCAAAAAATTTTTGTATAATGACAGTACTGATAATATTAGAAATGATACCGCAA
GCAATGTATATCACTTAAAAATGTCATATATTCTGTCTGCGTAAACTAAGGTATATATTCATATGTGC
TCTAATGCAGTATTATCACCGCCCCGAAAAGAGTGCTAAGCCCAAAGTGGCTGATATTTAGGGTACAG
GGGTTATAGCTTTAGTTCACATCTTTCCATTTCCACTAGAAATATTTCTCTTGAGAGAATTTATTATT
TATGATTGATCTGAAAAGTCCAGCACTGAAGTATGCTAAAATGATAGTAGTTTTACAACTACAGATT
CTGAATTTTAAAAAGTATCTTCTTTTTCTCGTGTATATTTTTAAATATACACAAGACATTTGGTGACC
AGAACAAGTTGATTTCTGTCCTCAGTTATGTTAATGAAACTGTTGCCCTCTTCTAAGAAAATTTGTGTGT
GCAAGCACCAGGCAAGAAATGGACTCAGGATGCTTAGCGGTTTTAAAACAACTGTAGATAAATCACT
TGAGTGACATAGTTGCGCAAAGATGTTAAGTTTCTTAAGAAACCTTTTAACTGAGTTTAGCAAAAA
GAATAAACTATATAGCTCAATTTATTTAAAAAATCTTTGCATGTGTGATGTTATCATTGGCTTCATT
TCTTACCAAGGTATGTCTGTTTTGCCATAAATCAGCAGAGTCATTTTCTTCTGGGTGATCTAACACA
CCATTGCTACGTTAGATTTGAAATGACATCTCTGTTAAAAGAATCTTCTATGAAATAATGGTGCCCTG
CAAAATCTTCTTTGAACTCACAGGTTAGGGATCACACAACCTTACTTAATCGTTTTTTGTTTTTTT
TTTTCTTATATGTCAATGGCCCATGTCCTCCGGGAAAATTAGAAAAGCAAAATGATTACAAAGTGTG
TTAGATTTCTGTGCTGGCCAGCCAAGTAGAAGTGGACTTGACTTGACCTTTAACTATTTTATTACA
GATTGGACATTTGCTGTTTCAAGATGTTTTTAAACAGAGGGATTATCTCAGAATCCTGTGACCTCCAGGTT
GTTTTATAATCTATTTTCTCTATTTAACATTCCTCAGATAGATAGGCAAAATAGGACATTCCTTCTGTG
TCACAGAAGTATCGTGGTAGTGGCAGTCTACAGTTTATATGATTCATTGTAAGTATGAGATAAAGAACA
ACCAGTCATGTGGCCAAAAGGATTAGATTTGATTTGATGTTCACTTGGAGTTACTTTTTGTACATACA
AGATAAAATAAATATTGGATTTGTAATAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_052867.4](#)

Summary:

This gene encodes a voltage-independent, nonselective cation channel which belongs to a family of voltage-gated sodium and calcium channels that regulates the resting membrane potential and excitability of neurons. This family is expressed throughout the nervous system and conducts a persistent sodium leak current that contributes to tonic neuronal excitability. The encoded protein forms a channelosome complex that includes G-protein-coupled receptors, UNC-79, UNC-80, NCA localization factor-1, and src family tyrosine kinases. Naturally occurring mutations in this gene are associated with infantile neuroaxonal dystrophy, infantile hypotonia with psychomotor retardation and characteristic facies (IHPRF) syndrome, and congenital contractures of the limbs and face with hypotonia and developmental delay (CLIFAHDD) syndrome. A knockout of the orthologous gene in mice results in paralysis with a severely disrupted respiratory rhythm, and lethality within 24 hours after birth. [provided by RefSeq, Apr 2017]

Locus ID:

259232

MW:

60.2