

Product datasheet for **SC114461**

VRL1 (TRPV2) (NM_016113) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VRL1 (TRPV2) (NM_016113) Human Untagged Clone
Tag:	Tag Free
Symbol:	VRL1
Synonyms:	VRL; VRL-1; VRL1
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 SC114461 sequence for NM_016113 edited (data generated by NextGen Sequencing)

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ATGACCTCACCCTCCAGCTCTCCAGTTTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAA
GATGGCTCTGAGGCGGACAGAGGAAAGCTGGATTTTGGGAGCGGGCTGCCTCCCATGGAG
TCACAGTTCAGGGCGAGGACCGGAAATTCGCCCTCAGATAAGAGTCAACCTCAACTAC
CGAAAGGGAACAGGTGCCAGTCAGCCGGATCCAACCGATTTGACCGAGATCGGCTCTTC
AATGCGGTCTCCCGGGGTGCCCGGAGGATCTGGCTGGACTTCCAGAGTACCTGAGCAAG
ACCAGCAAGTACCTCACCAGACTCGGAATACACAGAGGGCTCCACAGGTAAGACGTGCCTG
ATGAAGGCTGTGCTGAACCTTAAGGACGGGGTCAATGCCTGCATTCTGCCACTGTGCGAG
ATCGACCGGGACTCTGGCAATCCTCAGCCCCTGGTAAATGCCAGTGCACAGATGACTAT
TACCGAGGCCACAGCGCTCTGCACATCGCCATTGAGAAGAGGAGTCTGCAGTGTGTGAAG
CTCCTGGTGGAGAATGGGGCAATGTGCATGCCCGGGCTGCGGGCGCTTCTCCAGAAG
GGCCAAGGACTTGCTTTATTTTCGGTGAGCTACCCCTCTCTTTGGCCGCTTGACCAAG
CAGTGGGATGTGTAAGTACCTCCTGGAGAACCACACCAGCCGCCAGCCTGCAGGCC
ACTGACTCCCAGGCAACACAGTCTGCATGCCCTAGTGATGATCTCGGACAACCTCAGCT
GAGAACATTGCACTGGTGACCAGCATGTATGATGGGCTCCTCAAAGCTGGGGCCCGCCTC
TGCCCTACCGTGCAGCTTGAGGACATCCGCAACCTGCAGGATCTCACGCCTCTGAAGCTG
GCCGCAAGGAGGGCAAGATCGAGATTTTCAGGCACATCCTGCAGCGGGAGTTTTTCAGGA
CTGAGCCACCTTTCCCGAAAGTTCACCGAGTGGTGTATGGGCCTGTCCGGGTGTGCTG
TATGACCTGGCTTCTGTGGACAGCTGTGAGGAGAACTCAGTGTGGAGATCATTGCCTTT
CATTGCAAGAGCCCGACCGACACCGAATGGTGTGTTTTGGAGCCCTGAACAACTGCTG
CAGGCGAAATGGGATCTGCTCATCCCAAGTCTCTTAAACTTCTGTGTAATGTGAT
TACATGTTTATCTTACCAGTGTGCTACCATCAGCCTACCCTGAAGAAGCAGGCGGCC
CCTCACCTGAAAGCGGAGGTTGGAAACTCCATGCTGCTGACGGGCCACATCCTTATCCTG
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TGGCGCCCGAAGCTCCTACAGGCCCAATGCCACAGAGTCAGTGCAGCCATGGAGGGA
CAGGAGGACGAGGGCAACGGGGCCAGTACAGGGGTATCCTGGAAGCCTCCTTGGAGCTC
TTCAAATTCACCATCGGCATGGGCGAGCTGGCCTTCCAGGAGCAGCTGCACCTCCGCGGC
ATGGTGTGCTGTGCTGCTGGCCTACGTGCTGCTCACCTACATCCTGCTGCTCAACATG
CTCATCGCCCTCATGAGCGGAGACCGTCAACAGTGTGCGCCACTGACAGCTGGAGCATCTGG
AAGCTGCAGAAAGCCATCTGTCTGCTGGAGATGGAGAATGGCTATTGGTGGTGCAGGAAG
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CGCTGGTGTTCAGGGTGGAGGAGTGAACCTGGGCTTTCATGGGAGCAGACGCTGCCTACG
CTGTGTGAGGACCCGTCAGGGGCGAGGTGTCCTCGAACTCTCGAGAACCCTGTCTGGCT
TCCCCTCCAAGGAGGATGAGGATGGTGCCTCTGAGGAAAATATGTGCCGTCCAGCTC
CTCCAGTCCAACCTGA
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Clone variation with respect to NM_016113.4
390 a=>g;427 a=>c;2094 c=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016113 unedited
 NTGTTTCAATTTTGTATACGACTCACTATAGGGCGGCCGCGCTGGTGGCTAGCCTGTCCT
 GACAGGGGAGAGTTAAGCTCCCCTTCTCCACCGTGCCGGCTGGCCAGGTGGGCTGAGGGT
 GACCGAGAGACCAGAACCTGCTTGTCTGGAGCTTAGTGCTCAGAGCTGGGGAGGGAGGTTT
 CGCCGCTCCTCTGCTGTACGCGCCGACGCCCCCCCCTTCACTTCTCCCGCAGCCC
 CTGCTACTGAGAAGCTCCGGGATCCCAGCAGCCGCCACGCCCTGGCCTCAGCCTGCGGGG
 CTCCAGTCAGGCCAACCCGACGCGCAGCTGGGAGGAAGACAGGACCCTTGACATCTCCA
 TCTGCACAGAGGCTTGGCTGGACCGAGCAGCCTCCTCCTCCTAGGATGACCTCACCCCTC
 CAGCTCTCCAGTTTTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAAGATGGCTCTGAGGC
 GGACAGAGGAAAGCTGGATTTTGGGAGCGGGCTGCCTCCCATGGAGTCACAGTTCAGGG
 CGAGGACCGGAAATTCGCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGGAACAGG
 TGCCAGTCAGCCGGATCCAAACCGATTTGACCGAGATCGGCTCTTCAATGCGGTCTCCCG
 GGGTGTCCCCGAGGATCTGGCTGGACTTCCAGAGTACCTGAGCAAGACCAGCAAGTACCT
 CACCGACTCGGAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGNATGAAGCTGTGCT
 GAACCTTAAGGACGGNGTCAATGCCTGCATTCTGCCACTGCTGCAGATCGACCGGACCT
 CTGGCATCCTCAGCCCCCTGGTGAATGCCAGTGCACAGATGACTATTACCGNAGCCACAG
 CGCTCTGCACATCGCCATTGAGAAAGAGAGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016113 unedited
 CCGCTTTTAGAGTCGAGNTTT
 TTTTTGAGGGAAGGAAAATATATATTTGCCACCAAATTTACTGGGACCCCAAAGCCAGC
 AAATGGGGGTGGAAAAACCTTTGGTTTGTCTTTGGCCTCCTGTGGATTTGGGCCATT
 AATTGGACTGGAGGAACTGGACGGGCACATAATTTTCTCAAAGGCACCATCCTCATCCT
 CCTTGGGAGGGGAAACCCGGACAGGGTTCTCGAAAGTTTGGGGACACCTGCCCTGACG
 GGTCTCACACAGGGTAAGCAGCGTTTGTCCCATGAAGCCCAATTCACCTCCTCCACCC
 TGAAGCACCAACGCTTATCCGGGCTGCCATTTGGGTTAATGCCAACGGGCAATATCACAC
 CCGGCCGCTGGTTTTTCTGCACCACCAATAGCCATTCTCCCTCTCCACGACAGAAATGG
 CTTTTCTGCAACTTCAAATGCCTAACTGCCAAGGGCGACACTGTTGACCGGTCCCCTT
 CTGAAGGCGAAGAACATGTTCAACCACCAGATGTTTGGGAGCCTATCGTTTGCCACCAAC
 TACTCTTTATCCCTGCCCGGAAATGCCATGCTCCTGGAAGCCCTCGCCCTGCCCATG
 GGAATTTCAAACCCCAAGGAGTTTCCGAATCCCCTGTCTGGGCTCCGTGCCCTAAACAT
 TCTGACCCCATGGCGCACTGACTTCGGGGCATGGGGCCTGTAGACTTTCGGGCCCAAC
 TTTCTTGTAGGCTCCCCGGCTATCTGAACCCTAAGAAATTTCTCTCCAAAAAACCTCC
 TGTCTCCAGAAACCTTTGGACCTACACCTGAAACCCGGGGCCGGAACCCCTCCTATAT
 AAGTTTTTCTCTACCCCGCCAAACACACCGGTGGATCCCTCTAGTG

Restriction Sites:

NotI-NotI

ACCN:

NM_016113

Insert Size:

2930 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_016113.3 , NP_057197.2
RefSeq Size:	2797 bp
RefSeq ORF:	2295 bp
Locus ID:	51393
UniProt ID:	Q9Y5S1
Cytogenetics:	17p11.2
Domains:	ANK, ion_trans
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
Gene Summary:	This gene encodes an ion channel that is activated by high temperatures above 52 degrees Celsius. The protein may be involved in transduction of high-temperature heat responses in sensory ganglia. It is thought that in other tissues the channel may be activated by stimuli other than heat. [provided by RefSeq, Jul 2008]