

Product datasheet for **RG202821**

VRL1 (TRPV2) (NM_016113) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VRL1 (TRPV2) (NM_016113) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VRL1
Synonyms:	VRL; VRL-1; VRL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202821 representing NM_016113
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCTCACCTCCAGCTCTCCAGTTTTCCAGTTGGAGACATTAGATGGAGCCAAAGAAGTGGCTCTG
 AGGCGGACAGAGGAAAGCTGGATTTTGGGAGCGGGCTGCCTCCCATGGAGTCACAGTTCCAGGGCGAGGA
 CCGGAAATTCGCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGGAACAGGTGCCAGTCAGCCGGAT
 CCAAACCGATTTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGCCCGAGGATCTGGCTGGAC
 TTCCAGAGTACCTGAGCAAGACCAGCAAGTACCTACCGACTCGGAATACACAGAGGGCTCCACAGGTAA
 GACGTGCCTGATGAAGGCTGTGCTGAACCTTAAGGACGGAGTCAATGCCTGCATTCTGCCACTGCTGCAG
 ATCGACAGGGACTCTGGCAATCCTCAGCCCTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCC
 ACAGCGCTCTGCACATCGCCATTGAGAAGAGGAGTCTGCAGTGTGTGAAGCTCCTGGTGGAGAATGGGGC
 CAATGTGCATGCCCGGGCTGCGGCCGCTTCTCCAGAAGGGCCAAGGGACTTGTCTTTATTTTCGGTGAG
 CTACCCCTCTCTTTGGCCGCTTGACCAAGCAGTGGGATGTGGTAAAGCTACCTCCTGGAGAACCACACC
 AGCCCGCCAGCCTGCAGGCCACTGACTCCCAGGGCAACACAGTCTGCATGCCCTAGTGATGATCTCGGA
 CAACTCAGCTGAGAACATTGCACTGGTGACCAGCATGTATGATGGGCTCCTCAAAGCTGGGGCCCGCCTC
 TGCCCTACCGTGCAGCTTGAGGACATCCGCAACCTGCAGGATCTCACGCCTCTGAAGCTGGCCGCAAGG
 AGGGCAAGATCGAGATTTTCAGGCACATCCTGCAGCGGGAGTTTTTCAGGACTGAGCCACCTTTCCCGAAA
 GTTCACCGAGTGGTGCTATGGGCCTGTCCGGGTGTCGCTGTATGACCTGGCTTCTGTGGACAGCTGTGAG
 GAGAACTCAGTGTGGAGATCATTGCCTTTCATTGCAAGAGCCCGACCCGACCCGAATGGTCGTTTTGG
 AGCCCTGAACAAACTGCTGCAGCGGAAATGGATCTGCTCATCCCAAGTTCTTCTTAAACTTCTGTG
 TAATCTGATCTACATGTTTCATCTTACCCTGTTGCCTACCATCAGCCTACCCTGAAGAAGCAGGCCGCC
 CCTCACCTGAAAGCGGAGGTTGAAACTCCATGCTGCTGACGGGCCACATCCTTATCCTGCTAGGGGGGA
 TCTACCTCCTCGTGGGCCAGCTGTGGTACTTCTGGCGGCCACGTGTTTCATCTGGATCTCGTTCATAGA
 CAGCTACTTTGAAATCCTCTTCTGTTCCAGGCCCTGCTCACAGTGGTGTCCAGGTGCTGTGTTTCCTG
 GCCATCGAGTGGTACCTGCCCTGCTTGTGTCTGCGCTGGTGTGGGCTGGCTGAACCTGCTTTACTATA
 CACGTGGCTTCCAGCACACAGGCATCTACAGTGTATGATCCAGAAGTTCATCCTGCGGGACCTGCTGCG
 CTTCTTCTGATCTACTTAGTCTTCTTTTCGGCTTCGCTGTAGCCCTGGTGAGCCTGAGCCAGGAGGCT
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 AGGGCAACGGGGCCAGTACAGGGGTATCCTGGAAGCCTCCTGGAGCTCTTCAAATTCACCATCGGCAT
 GGGCGAGCTGGCCTTCCAGGAGCAGCTGCACTTCCGCGGCATGGTGTGCTGCTGCTGCTGGCCTACGTG
 CTGCTCACCTACATCCTGCTGCTCAACATGCTCATCGCCCTCATGAGCGAGACCGTCAACAGTGTGCCA
 CTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTCTGGAGATGGAGAATGGCTATTGGTG
 GTGCAGGAAGAAGCAGCGGGCAGGTGTGATGCTGACCGTTGGCACTAAGCCAGATGGCAGCCCCGATGAG
 CGCTGGTCTTCCAGGTGGAGGAGTGAAGTGGCTTTCATGGGAGCAGACGCTGCCTACGCTGTGTGAGG
 ACCCGTCAGGGGCAGGTGTCCTCGAACTCTCGAGAACCCTGTCTGGCTTCCCTCCCAAGGAGGATGA
 GGATGGTGCCTCTGAGGAAAATATGTGCCCGTCCAGTCTCTCCAGTCCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG202821 representing NM_016113
 Red=Cloning site Green=Tags(s)

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MTSPSSSPVFRLETL DGGQEDGSEADRGKLD FGSGLPPMESQFQGEDRKFAPQIRVNLN YRKGTGASQPD
PNRFDRDLFNAVSRGPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCMLKAVLNLDKGVNACILPLLQ
IDRDSGNPQPLVNAQCTDDYYRGHSA LHI AIEKRSLQCVKLLVENGANVHARACGRFFQKGGQTCFYFGE
LPLSLAACTKQWDVVSYLLENPHQPASLQATDSQGN TVLHALVMI SDNSAENIALVTSMYDGLLQAGARL
CPTVQLEDIRNLQDL TPLKLA AKEGKIEIFRHILQREFSGLSHLSRKFTWCYGPVRSLYDLASVDSCE
ENSVLEIIAFHCKSPHRHRMVVLEPLNKLLQAKWDL LIPKFFLNFLCNLIYMFIFTAVAYHQPTLKKQAA
PHLKA EGVNSMLLTG HIL ILLGGIYLLVGQLWYFWRRHVFIWISFIDSYFEILFLFQALLTVVSQVLCFL
AIEWYLP LLVSALV LGWLNLLYYTRGFQHTGIYSVMIQKVILRDLLRFLLIYLVFLFGFAVALVSLSQEA
WRPEAPTGNATESVQPMEGQEDEGNGAQYRGILEASLEL FKFTIGMGELAFQEQLHFRGMVLLLLLAYV
LLTYILLLL NMLIALMSETVNSVATDSWSIWKLQKAISVLEMENGYWCRKKQRAGVMLTVGTKPDGSPDE
RWCFRVEEVN WASWEQTLPTL CEDPSGAGVPRTLENPVLASPPKEDE DGASEENYVPVQLLQSN
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016113

ORF Size: 2292 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_016113.5](#)

RefSeq Size: 2797 bp

RefSeq ORF: 2295 bp

Locus ID: 51393

UniProt ID: [Q9Y5S1](#)

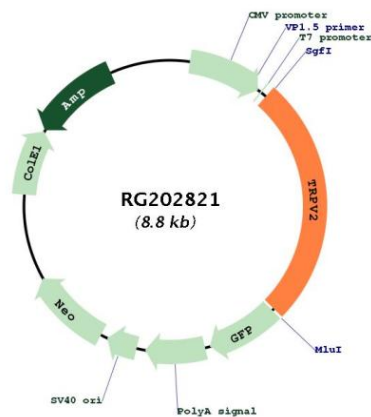
Cytogenetics: 17p11.2

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]

Product images:



Circular map for RG202821