

Product datasheet for RC219422

HVCN1 (NM_032369) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HVCN1 (NM_032369) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HVCN1
Synonyms:	HV1; VSOP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219422 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACCTGGGACGAAAAGGCAGTCACCCGCAGGGCCAAGGTGGCTCCCGCTGAGAGGATGAGCAAGT
TCTTAAGGCACTTCACGGTCGTGGGAGACGACTACCATGCCTGGAACATCAACTACAAGAAATGGGAGAA
TGAAGAGGAGGAGGAGGAGGAGGAGCAGCCACCACCCACACAGTCTCAGGCGAGGAAGGCAGAGCTGCA
GCCCTGACGTTGCCCTGCCCTGGCCCCGCACCCAGGGCCCCCTTGACTTCAGGGGCATGTTGAGGA
AACTGTTCACTCCACAGGTTTCAGGTCATCATCTGCTTGGTGGTCTGGATGCCCTCCTGGTGCT
TGCTGAGCTCATCTGGACCTGAAGATCATCCAGCCCACAAGAATAACTATGCTGCCATGGTATCCAC
TACATGAGCATACCATCTTGGTCTTTTTATGATGGAGATCATCTTTAAATTATTTGTCTTCCGCCTGG
AGTTCTTTCACCACAAGTTTGAATCCTGGATGCCGTCGTGGTGGTCTCATTATCCTCGACATTGT
CCTCCTGTTCCAGGAGCACCAGTTTGAAGCTCTGGGCTGCTGATTCTGCTCCGGCTGTGGCGGGTGGCC
CGGATCATCAATGGGATTATCATCTCAGTTAAGACACGTTTCAAGACGCAACTCTTAAGTTAAAACAGA
TGAATGTACAATTGGCCGCAAGATTCAACACCTTGAGTTCAGCTGCTCTGAGAAGGAACAAGAAATTGA
AAGACTTAACAACTATTGGCAGCAGCATGGACTTCTTGGTGAAGTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219422 protein sequence
Red=Cloning site Green=Tags(s)

MATWDEKAVTRRAKVAPAERMSKFLRHFTVVGDDYHAWNINYKKWENEEEEEEQPPPTPVSGEGRAA
 APDVAPAPGPAPRAPLDFRGLRKLFSHRFQVIIICLVLDALLVLAELILDKIIQPKNNYAAMVFH
 YMSITILVFFMMEIIFKLVFRLEFFHHKFEILDVVVVVVFILDIVLLFQEHQFEALGLLILLRLWRVA
 RIINGIIISVKTRSERQLLRKQMNVLAAKIQHLEFSCSEKEQEIERNKLLRQHGLLGEVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6720_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_032369

ORF Size: 819 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032369.4](#)

RefSeq Size: 1727 bp

RefSeq ORF: 822 bp

Locus ID: 84329

UniProt ID: [Q96D96](#)

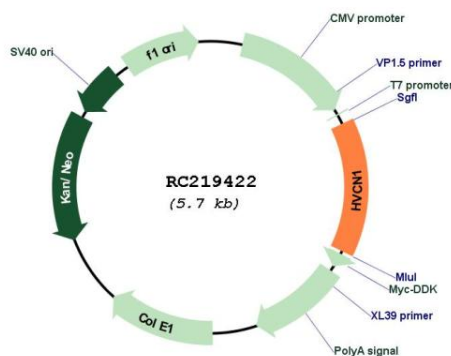
Cytogenetics: 12q24.11

Protein Families: Druggable Genome, Transmembrane

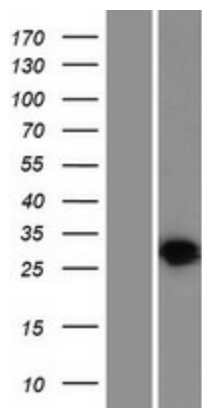
MW: 31.7 kDa

Gene Summary: This gene encodes a voltage-gated protein channel protein expressed more highly in certain cells of the immune system. Phagocytic cells produce superoxide anions which require this channel protein, and in B cells this same process facilitates antibody production. This same channel protein, however, can also regulate functions in other cells including spermatozoa. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

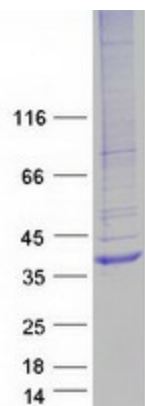
Product images:



Circular map for RC219422



Western blot validation of overexpression lysate (Cat# [LY410163]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219422 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HVCN1 protein (Cat# [TP319422]). The protein was produced from HEK293T cells transfected with HVCN1 cDNA clone (Cat# RC219422) using MegaTran 2.0 (Cat# [TT210002]).