

Product datasheet for **RG219422**

HVCN1 (NM_032369) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HVCN1 (NM_032369) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HVCN1
Synonyms:	HV1; VSOP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219422 representing NM_032369 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACCTGGGACGAAAAGGCAGTCACCCGCAGGGCCAAGGTGGCTCCCCTGAGAGGATGAGCAAGT
TCTTAAGGCACTTCACGGTCGTGGGAGACGACTACCATGCCTGGAACATCAACTACAAGAAATGGGAGAA
TGAAGAGGAGGAGGAGGAGGAGGAGCAGCCACCACCCACACAGTCTCAGGCGAGGAAGGCAGAGCTGCA
GCCCTGACGTTGCCCTGCCCTGGCCCCGCACCCAGGGCCCCCTTGACTTCAGGGGCATGTTGAGGA
AACTGTTCACTCCACAGGTTTCAGGTCATCATCTGCTTGGTGGTCTGGATGCCCTCCTGGTGCT
TGCTGAGCTCATCCTGGACCTGAAGATCATCCAGCCCACAAGAATAACTATGCTGCCATGGTATCCAC
TACATGAGCATCACCATCTTGGTCTTTTTATGATGGAGATCATCTTTAAATTATTTGTCTCCGCCTGG
AGTTCTTTCACCACAAGTTTGAATCCTGGATGCCGTCGTGGTGGTCTCATTATCCTCGACATTGT
CCTCCTGTTCCAGGAGCACCAGTTTGAAGCTCTGGGCTGCTGATTCTGCTCCGGCTGTGGCGGGTGGCC
CGGATCATCAATGGGATTATCATCTCAGTTAAGACAGTTTCAAGACGCAACTCTTAAGTTAAAACAGA
TGAATGTACAATTGGCCGCAAGATTCAACACCTTGAGTTCAGCTGCTCTGAGAAGGAACAAGAAATTGA
AAGACTTAACAACTATTGGCAGCAGCATGGACTTCTTGGTGAAGTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219422 representing NM_032369
 Red=Cloning site Green=Tags(s)

MATWDEKAVTRRAKVAPAERM SKFLRHFTVVGDDYHAWNIN YKKWENEEEEEEEQPPTPVSGEEGRAA
 APDVAPAPGPAPRAPLDFRGLRKL FSSHRFQV I IICLVLDALLVLAELILD LK I I QPDKNNYAAMVFH
 YMSITILVFFMMEIIFKLFVFRLEFFH HKFEILD AVVVVVSFILDIVLLFQEHQFEALGLL ILLRLWRVA
 RIINGIIISVKTRSERQLLR LKQMN VQLAAKIQHLEFSCSEKEQEIERLNKLLRQHGLLGEVN

TRTRPLE - GFP Tag - V

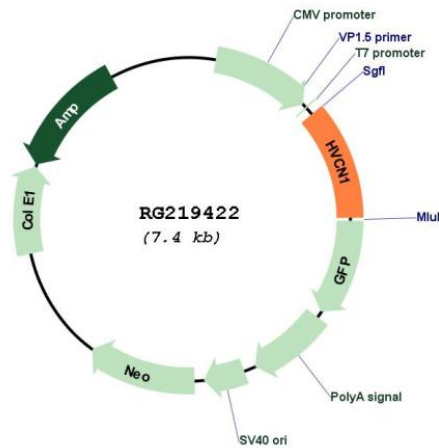
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<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_032369.4
RefSeq Size:	1711 bp
RefSeq ORF:	822 bp
Locus ID:	84329
UniProt ID:	Q96D96
Cytogenetics:	12q24.11
Protein Families:	Druggable Genome, Transmembrane
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]